

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/27/2021 4:27:20

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

Re: 2955854

SUMMIT/WOODSIDE RIDGE #29/MO

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: I48255547 thru I48255597

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

Missouri COA: Engineering 001193



October 8,2021

Sevier, Scott

,Engineer

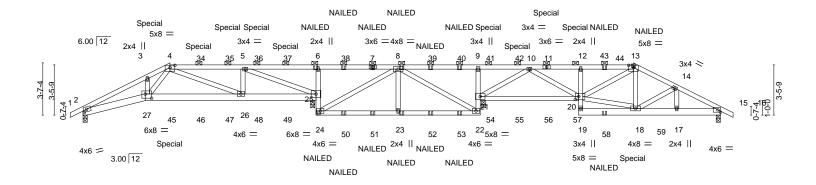
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Ply SUMMIT/WOODSIDE RIDGE #29/MO 148255547 2955854 Α1 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:08:56 2021 Page 1

Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-tzkj6YRXgjT3tg8S0nNxliaSoUWqTFsALM2cG2yVqxr

Scale = 1:79.5



		4-3-8 6-0-0			5-8-8 16 _F 1 _I -0	21-9-0			3 30-9-12	34-2-8	38-0-0	40-11-13	44-0-0
	' 4	4-3-8 1-8-8	5-0-8	<u>'</u>	4-8-0 0- ¹ 4- ¹ 8	5-8-0	1-10-11 3	-9-5 0- ¹ 4- ¹ 8	3-0-4	3-4-12	3-9-8	2-11-13	3-0-3
Plate Offs	ets (X,Y)	[2:0-2-8,0-2	2-0], [4:0-4-0,0)-1-15], [13:0	-4-0,0-1-15], [2	20:0-2-12,0-2	2-8], [27:0-5-4,0-3-	8]					
LOADING	(psf)	SPA	CING-	2-0-0	CSI.		DEFL.	in (I	oc) I/def	L/d		PLATES	GRIP
TCLL	25.0	Plate	e Grip DOL	1.15	TC	0.51	Vert(LL)	-0.09 26	-27 >999	240		MT20	197/144
TCDL	20.0	Lum	ber DOL	1.15	BC	0.68	Vert(CT)	-0.20 26	-27 >970	180			
BCLL	0.0	Rep	Stress Incr	NO	WB	0.46	Horz(CT)	0.06	25 n/a	ı n/a			
BCDL	10.0	Cod	e IRC2018/T	PI2014	Matri	x-MS						Weight: 383 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, **BOT CHORD**

2x4 SPF No.2 *Except*

2-27,25-27,15-19: 2x6 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-13.

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

REACTIONS. All bearings 0-3-8.

Max Horz 2=52(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-332(LC 8), 21=-687(LC 9), 15=-359(LC 9), 25=-709(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=1586(LC 21), 21=3182(LC 22), 15=1654(LC 22),

25=3194(LC 21)

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

TOP CHORD 2-3=-4446/988, 3-4=-4147/987, 4-5=-2872/682, 5-6=-76/538, 6-8=-52/430, 8-9=-27/383, 6-8=-52/430, 8-9=-27/383, 6-8=-52/430, 8-9=-27/383, 8-9=-27/380, 8-9=-27/380, 8-9=-27/380, 8-9=-27/380, 8-9=-27/380, 8-9=-27/38

9-10=-74/559, 10-12=-3370/821, 12-13=-3285/808, 13-14=-2745/676, 14-15=-2651/602

BOT CHORD 2-27=-882/3947, 26-27=-674/3029, 25-26=-614/2866, 24-25=-157/779, 6-25=-820/221,

23-24=-155/681, 22-23=-155/681, 21-22=-155/781, 9-21=-777/212, 20-21=-436/1946,

12-20=-690/190, 18-19=-94/313, 17-18=-485/2308, 15-17=-485/2308 3-27=-183/417, 5-26=0/360, 5-25=-3669/803, 8-23=-102/599, 18-20=-418/2161,

WEBS 13-20=-237/1045, 13-18=-83/280, 14-18=-231/289, 14-17=-294/100, 4-27=-291/1280,

8-24=-1275/285, 8-22=-1226/264, 10-20=-311/1671, 10-21=-2938/674

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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=15ft; 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) 2 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 332 lb uplift at joint 2, 687 lb uplift at joint 21, 359 lb uplift at joint 15 and 709 lb uplift at joint 25.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contesteuen cocostous dard ANSI/TPI 1.



October 8,2021



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI 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 #29/MO	
0055054		I lin Cinder				148255547
2955854	AT	Hip Girder	1	2	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:08:56 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-tzkj6YRXgjT3tg8S0nNxliaSoUWqTFsALM2cG2yVqxr

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 116 lb up at 6-0-0, 214 lb down and 116 lb up at 8-0-0, 214 lb down and 116 lb up at 10-0-0, 214 lb down and 116 lb up at 12-0-0, 214 lb down and 116 lb up at 28-0-0, 214 lb down and 116 lb up at 30-0-0, and 214 lb down and 116 lb up at 32-0-0, and 214 lb down and 116 lb up at 34-0-0 on top chord, and 497 lb down and 159 lb up at 6-0-0, and 633 lb down and 212 lb up at 37-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-13=-90, 13-16=-90, 27-28=-20, 25-27=-20, 22-24=-20, 20-21=-20, 19-31=-20

Concentrated Loads (lb)

Vert: 4=-214(B) 7=-73(B) 6=-73(B) 8=-73(B) 23=-138(B) 11=-214(B) 13=-73(B) 25=-138(B) 34=-214(B) 35=-214(B) 35=-214(B) 37=-214(B) 38=-73(B) 39=-73(B) 40=-73(B) 41=-214(B) 42=-214(B) 43=-214(B) 44=-73(B) 45=-497(B) 50=-138(B) 51=-138(B) 52=-138(B) 53=-138(B) 58=-138(B) 59=-633(B)

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255548 2955854 A2 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:14 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-MRqWuifpRFkV1RWv4Zi91VKYDIgugNUqT9PZv0yVqxZ

5-8-0

27-5-0

5-8-0

Scale = 1:81.4

0-10-8

36-0-0 38-10-12

1-9-8 2-10-12

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-11.

Rigid ceiling directly applied.

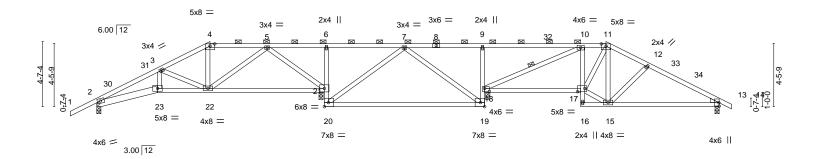
1 Row at midpt

34-2-8

6-9-8

44-0-0

5-1-4



	1	4-3-8 8-0-0	15-8-8	16 _г 1-0 21-9-	0 _I	27-5-0	27 _г 9-8	34-2-8	₁ 36-0-0 ₁	44-0-0	1
		4-3-8 3-8-8	7-8-8	0-4-8 5-8-0) '	5-8-0	0-4-8	6-5-0	1-9-8	8-0-0	ı
Plate Offs	sets (X,Y)	[2:0-2-8,0-2-0], [4:0-4-0,0	-1-15], [11:0-4-	0,0-1-15], [17:0-6-4,0-2	2-12], [18:0-4-0	,0-2-8]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL		in (loc)	I/defl I	./d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.38	Vert(L	L) -0.3	4 19-20	>395 2	40	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.62	Vert(C	Ť) -0.6	9 19-20	>192 1	80		
BCLL	0.0	Rep Stress Incr	YES	WB 0.51	Horz(CŤ) 0.0	4 21	n/a r	ı/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS	,					Weight: 199 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

2-23: 2x6 SPF 2100F 1.8E

2x4 SPF No.2 WEBS

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=84(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-154(LC 12), 21=-226(LC 12),

18=-216(LC 13), 13=-154(LC 13)

3-8-8

4-0-8

4-0-8

All reactions 250 lb or less at joint(s) except 2=1028(LC 1), 21=1572(LC

25), 18=1527(LC 26), 13=981(LC 1)

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

TOP CHORD 2-3=-1999/296, 3-4=-1245/183, 4-5=-1061/187, 10-11=-1204/242, 11-12=-1068/213,

BOT CHORD 2-23=-271/1733, 22-23=-259/1669, 21-22=-68/712, 20-21=-21/388, 6-21=-467/130, 19-20=-29/307, 18-19=-22/317, 9-18=-603/168, 17-18=-91/1249, 13-15=-137/1134

3-23=-35/327, 3-22=-659/176, 4-22=0/268, 5-22=-38/435, 5-21=-1046/205,

10-18=-1313/181, 15-17=-9/1004, 11-17=-78/640, 12-15=-332/122, 7-19=-342/113,

7-20=-463/112

NOTES-

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-0-8, Interior(1) 12-0-8 to 36-0-0, Exterior(2R) 36-0-0 to 40-2-15, Interior(1) 40-2-15 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2 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 154 lb uplift at joint 2, 226 lb uplift at joint 21, 216 lb uplift at joint 18 and 154 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



October 8,2021



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

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Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255549 2955854 **A3** Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:15 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-qdOu52gRCZsMeb56dGDOajtac9xsPl_zip96RSyVqxY

24-10-12 2-11-3

21-11-9 6-0-11

Scale = 1:81.0

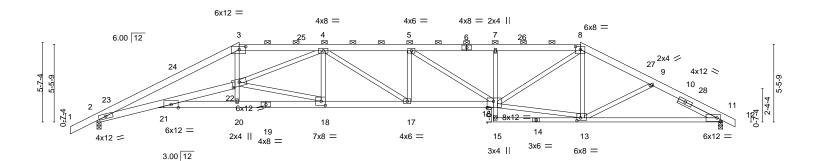
38-11-13 4-11-13

Structural wood sheathing directly applied, except

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

2-0-0 oc purlins (2-5-7 max.): 3-8.

2-2-0 oc bracing: 2-21.



				15-11-8						
		4-3-8 ₁ 10	·0-0 12-11-1	2 15-10-15 	21-11-0 21-11-9	27-10-8	34-0-0	1	44-0-0	
		4-3-8	8-8 2-11-12	2-11-3 0-0-9	5-11-8 0-0-9	5-10-15	6-1-8		10-0-0	1
Plate Offse	ets (X,Y)	[3:0-5-8,0-2-8], [8:0	-4-4,0-2-8], [11:0-2	2-13,0-3-0], [13:0-3	-0,0-2-4], [16:0-5-4,0	-5-4], [18:0-3-8	,0-3-8], [22:0-6	0,0-3-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEF	in	(loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D	OL 1.15	TC 0.9	8 Vert(LL) -0.41	17 >999	240	MT20	197/144
TCDL	20.0	Lumber DOI	. 1.15	BC 0.9	6 Vert(CT) -0.92 17	7-18 >571	180		
BCLL	0.0	Rep Stress I	ncr YES	WB 0.8	8 Horz	(CŤ) 0.41	11 n/a	n/a		
BCDL	10.0	Code IRC20	18/TPI2014	Matrix-S					Weight: 255 lb	FT = 20%

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD TOP CHORD

12-11-12 2-11-12

1-3: 2x6 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD**

2-22: 2x6 SP 2400F 2.0E, 19-21: 2x6 SPF No.2

16-19: 2x6 SPF 2100F 1.8E, 11-14: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 3-0-0

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

Max Horz 2=100(LC 16)

Max Uplift 2=-304(LC 12), 11=-284(LC 13) Max Grav 2=2589(LC 1), 11=2493(LC 1)

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

TOP CHORD 2-3=-6793/682, 3-4=-5734/661, 4-5=-6588/767, 5-7=-6044/706, 7-8=-6010/705,

8-9=-4090/453, 9-11=-4390/518

BOT CHORD 2-21=-583/6001, 21-22=-342/3565, 20-21=-309/2494, 18-20=-314/2557, 17-18=-657/6047, 16-17=-707/6588, 7-16=-603/164, 13-15=-33/317, 11-13=-383/3759

20-22=0/394, 3-22=-171/2355, 8-13=-392/140, 5-16=-743/169, 4-18=-793/138,

WEBS 4-17=-176/730, 18-22=-354/3590, 4-22=-692/288, 13-16=-265/3358, 8-16=-408/2881

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 34-0-0, Exterior(2R) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) 2 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 304 lb uplift at joint 2 and 284 lb uplift at joint 11.
- 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.



October 8,2021

OF MISS

SCOTT M.

SEVIER

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 #29/MO 148255550 2955854 A4 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:17 2021 Page 1

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

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-m0WfWkiijA74uuEUlhFsf8yzkyfXthXGA7eDVLyVqxW

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-10-5 max.): 4-8.

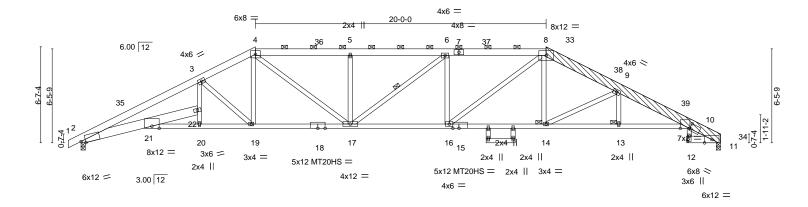
Rigid ceiling directly applied.

1 Brace at Jt(s): 14, 13

1 Row at midpt

29-10-8 1-5-6

Scale = 1:79.3



			27-10-8		
L 4-3	-8 8-1-12 12-0-0	18-6-4 18- 6 -13	25-1-11 25-2-4	29-10-8 32-0-0 36-10-4	41-8-8 44-0-0
4-3	8 3-10-4 3-10-4	6-6-4 0-0-9	6-6-14 0-0-9 2-8-4	2-0-0 2-1-8 4-10-4	4-10-4 2-3-8
Plate Offsets (X,Y)	[2:0-3-12,0-1-13], [10:0-7-8,Edge], [1	0:0-0-7,0-4-7], [12:0-4-4,0-1	-8], [15:0-5-0,Edge]		
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 0.82	Vert(LL) -0.39	16-17 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.88	16-17 >599 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.50	11 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 301 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD 8-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x8 SP 2400F 2.0E, 18-21,10-15: 2x4 SP 2400F 2.0E

11-12: 2x6 SPF 2100F 1.8E, 15-18: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*

4-19: 2x4 SP 2400F 2.0E

OTHERS 2x8 SP 2400F 2.0E

LBR SCAB 8-11 2x8 SP 2400F 2.0E one side

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

Max Horz 2=65(LC 11)

Max Uplift 2=-7(LC 9), 11=-3(LC 8) Max Grav 2=2492(LC 1), 11=2419(LC 1)

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

TOP CHORD 2-3=-5748/531, 3-4=-4699/475, 4-5=-5143/525, 5-6=-5140/524, 6-8=-5148/529,

8-9=-4680/469, 9-10=-5768/519, 10-11=-1056/117

2-21=-403/5079, 21-22=-35/453, 20-21=-372/4804, 19-20=-387/4996, 17-19=-266/4129, **BOT CHORD**

16-17=-351/5148, 14-16=-268/4167, 13-14=-415/5339, 10-13=-415/5339 10-12=-39/502, 4-19=-57/827, 8-14=-28/734, 9-14=-1339/172, 3-22=-18/683, **WEBS** 5-17=-651/127, 4-17=-110/1415, 6-16=-685/119, 8-16=-104/1362, 3-19=-1126/159

NOTES-

- 1) Attached 13-8-4 scab 8 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 3-8-15 from end at joint 8, nail 2 row(s) at 7" o.c. for 2-10-2; starting at 8-10-13 from end at joint 8, nail 2 row(s) at 2" o.c. for 4-4-4.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 1-10-0, Interior(1) 1-10-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 43-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) 2, 11 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 7 lb uplift at joint 2 and 3 lb uplift at joint
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

October 8,2021

SSIONAL

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2955854	Δ4	Hip	1	1		148255550
200004		Tip	'		Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:17 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-m0WfWkiijA74uuEUlhFsf8yzkyfXthXGA7eDVLyVqxW

NOTES-

- 10) 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.
- 11) 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 #29/MO 148255551 2955854 A5 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:19 2021 Page 1

25-10-6 3-10-6

| 27-10-8 | 30-0-0 | 2-0-2 | 2-1-8 |

30-0-0

Structural wood sheathing directly applied, except

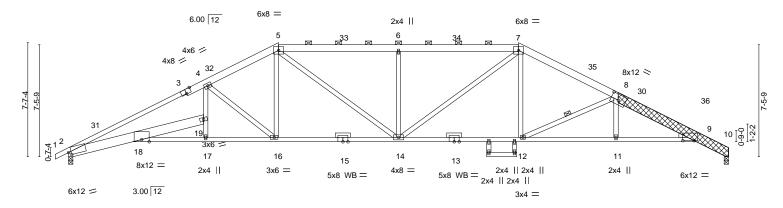
2-0-0 oc purlins (2-11-5 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-iOdPxQjyFnNo7COts6HKkZ1J?mHDLbZZdR7JaDyVqxU 2-3-8 0-10-8

Scale = 1:76.8



	ı 4-3-	-8	9-1-12	14-0-0	1	22-0-0	1	27-10-8	₁ 29-10-8 ₁₁	36-6-0	1	41-8-8	44-0-0	
	4-3-	-8	4-10-4	4-10-4		8-0-0		5-10-8	2-0-0	6-6-0	-	5-2-8	2-3-8	
									0-1-8					
fsets	(X,Y)	[2:0-2-2	2,0-2-3], [3:0-4-0,1	Edge], [8:0-6-0,	0-4-8], [9:0-9-	2,0-0-0]								
														_
						I .								

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.83	DEFL. in (loc) I/defl L/d Vert(LL) -0.34 14-16 >999 240	PLATES GRIP MT20 197/144
TCDL 20.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 1.00 WB 0.72	Veri(CT) -0.81 14-16 >650 180 Horz(CT) 0.50 10 n/a n/a	101120 131/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	1.6.2(6.1) 6.66 1.6 1.6 1.6	Weight: 294 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Plate Offs

2x6 SPF No.2 *Except* TOP CHORD

1-3: 2x4 SP 2400F 2.0E, 8-10: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x8 SP 2400F 2.0E, 15-18: 2x4 SP 2400F 2.0E

9-13: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E *Except*

15-15,13-13: 2x4 SPF No.2

LBR SCAB 8-10 2x8 SP 2400F 2.0E both sides

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=120(LC 16)

Max Uplift 2=-278(LC 12), 10=-258(LC 13) Max Grav 2=2492(LC 1), 10=2416(LC 1)

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

TOP CHORD 2-4=-5476/612, 4-5=-4337/496, 5-6=-4445/489, 6-7=-4445/489, 7-8=-4364/459,

8-9=-5505/575, 9-10=-1070/136

BOT CHORD 2-18=-551/4781, 18-19=-51/383, 17-18=-506/4565, 16-17=-529/4722, 14-16=-323/3794,

12-14=-224/3791, 11-12=-446/5120, 9-11=-448/5114

WFBS 5-16=-102/839, 7-12=-46/736, 8-12=-1434/268, 4-19=-28/616, 6-14=-836/228,

7-14=-182/1014, 5-14=-178/998, 4-16=-1165/260

NOTES-

1) Attached 8-5-15 scab 8 to 10, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-7 from end at joint 8, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-8-7 from end at joint 8, nail 3 row(s) at 4" o.c. for 2-11-8.

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

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 43-10-4 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

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2, 10 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 278 lb uplift at joint 2 and 258 lb uplift at joint 10.



October 8,2021

Continued on page 2

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

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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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2955854	A5	Hip	1	1		148255551
2000004		1 110			Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:19 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-iOdPxQjyFnNo7COts6HKkZ1J?mHDLbZZdR7JaDyVqxU

- 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.

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255552 2955854 A6 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:20 2021 Page 1

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-AbBn8mka05VfIMz3QppZHmaSdAdK42Ris5st6fyVqxT

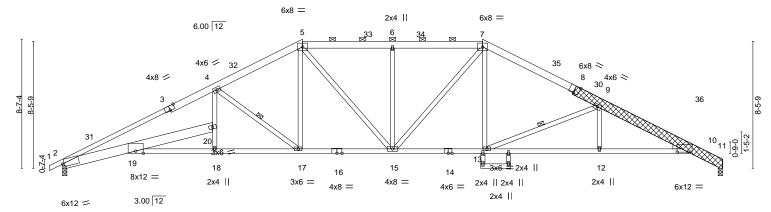
Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-6-8 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:76.8



						29-10-8				
- 1	4-3-8	10-1-12	16-0-0	22-0-0	27-10-8	28 ₇ 0-0	35-9-8	41-8-8	44-0-0	
Г	4-3-8	5-10-4	5-10-4	6-0-0	5-10-8	0- [¶] -8	5-11-0	5-11-0	2-3-8	
						1-10-8				
oto (V V) [2·0 1	6 0 2 71 [2:0 4 0 Edg	ol [9:0 4 0 Edgo] [10:	0 9 14 0 0 01						

Plate Off	sets (X,Y)	[2:0-1-6,0-2-7], [3:0-4-0,Eage	ej, [8:0-4-0 <u>,</u>	Eage], [10:0	-8-14,0-0-0]							
LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.90	Vert(LL)	-0.36 19	9-20	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1	1.15	BC	1.00	Vert(CT)	-0.82 19	9-20	>643	180		
BCLL	0.0	Rep Stress Incr	/ES	WB	0.68	Horz(CT)	0.55	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-AS						Weight: 316 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

1-3: 2x4 SP 2400F 2.0E, 8-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-20: 2x8 SP 2400F 2.0E, 16-19,10-14: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E

LBR SCAB 8-11 2x8 SP 2400F 2.0E both sides

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=136(LC 16)

Max Uplift 2=-276(LC 12), 11=-255(LC 13) Max Grav 2=2492(LC 1), 11=2416(LC 1)

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

TOP CHORD 2-4=-5290/581, 4-5=-4013/458, 5-6=-3774/451, 6-7=-3774/451, 7-9=-4063/435, 9-10=-5420/575, 10-11=-1070/135

2-19=-532/4597, 19-20=-49/356, 18-19=-488/4403, 17-18=-509/4548, 15-17=-269/3459,

13-15=-184/3468, 12-13=-445/5012, 10-12=-445/5012 4-20=-8/612, 4-17=-1338/297, 5-17=-125/900, 5-15=-139/674, 6-15=-627/171, **WEBS**

7-15=-142/677, 9-12=0/289, 7-13=-73/791, 9-13=-1658/339

NOTES-

BOT CHORD

- 1) Attached 11-1-14 scab 8 to 11, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 6-6-4 from end at joint 8, nail 3 row(s) at 4" o.c. for 2-11-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 43-10-4 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 DOI =1 60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2, 11 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 276 lb uplift at joint 2 and 255 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

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OF MISS

SCOTT M.

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PE-2001018807

October 8,2021

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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Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2055254	46	Llie	_	1		148255552
2955854	A6	Hip 	1	Į.	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:20 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-AbBn8mka05VflMz3QppZHmaSdAdK42Ris5st6fyVqxT

NOTES-

- 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.

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255553 A7 Hip Job Reference (optional)

Scale = 1:88.7

Structural wood sheathing directly applied, except

5-21, 9-20, 7-21, 7-20

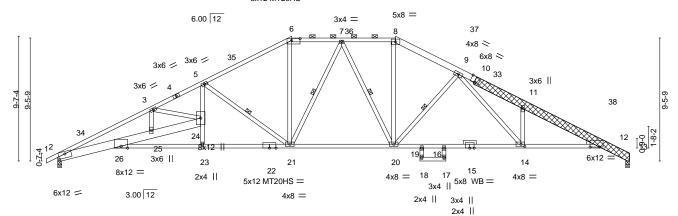
2-0-0 oc purlins (2-10-13 max.): 6-8.

10-0-0 oc bracing: 23-26

1 Row at midpt

Rigid ceiling directly applied. Except:

5x12 MT20HS =



		4-3-8 / 7-2-8	111-1-12	18-0-0	26-0-0	27-10-8 29-10-8	35-9-8	1 41-8-8 44-	0-0
		4-3-8 2-11-0	3-11-4	6-10-4	8-0-0	1-10-8 2-0-0	5-11-0	5-11-0 2-3	3-8
Plate Off	sets (X,Y)	[2:0-6-0,0-3-12], [6:0-7-	12,0-1-12], [10:	0-4-0,Edge], [12:0-8-1	4,0-0-0], [14:0-3-8,0-2	2-0]			
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 0.93	Vert(LL)	-0.33 21 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.80 14-16 >654	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.46 13 n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-AS				Weight: 332 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SPF 1650F 1.5E *Except* TOP CHORD

6-8: 2x4 SPF No.2, 8-10: 2x6 SPF No.2, 10-13: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

2-24: 2x8 SP 2400F 2.0E, 18-19,17-18,16-17: 2x4 SPF No.2 2x4 SPF No.2

WEBS

2x8 SP 2400F 2.0E *Except* **OTHERS**

15-15: 2x4 SPF No.2

LBR SCAB 10-13 2x8 SP 2400F 2.0E both sides

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=154(LC 16)

Max Uplift 2=-238(LC 12), 13=-217(LC 13) Max Grav 2=2492(LC 1), 13=2416(LC 1)

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

2-3=-6475/645, 3-5=-4748/475, 5-6=-3657/421, 6-7=-3143/415, 7-8=-3160/407, TOP CHORD

8-9=-3597/424, 9-11=-5561/588, 11-12=-5322/470, 12-13=-1070/120

2-26=-643/5724, 25-26=-283/1717, 24-25=-272/1542, 23-26=-359/4170, 21-23=-359/4180, BOT CHORD

20-21=-159/3236, 19-20=-254/3814, 16-19=-270/3724, 14-16=-254/3814,

12-14=-351/4895

WFBS 5-24=-66/765, 5-21=-1260/265, 6-21=-74/1077, 8-20=-93/1127, 9-20=-1034/251,

9-14=-233/1660, 11-14=-1067/248, 7-21=-449/121, 7-20=-382/120, 3-25=-48/721,

3-24=-1538/271

NOTES-

- 1) Attached 13-4-12 scab 10 to 13, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 8-9-2 from end at joint 10, nail 3 row(s) at 4" o.c. for 2-11-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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 18-0-0, Exterior(2R) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 43-10-4 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) The Fabrication Tolerance at joint 6 = 16%
- 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) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify Continuacity of bearing surface.

October 8,2021 MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

OF MISS

SCOTT M.

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PE-2001018807

🗥 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



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2955854	Δ7	Hip	1	1		148255553
2000004		1 110		· ·	Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:22 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-7zJYZRmqYilN_f7SYEr1MBfodzLtY?R?JPL_BYyVqxR

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 217 lb uplift at joint 13.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 11) 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.
- 12) 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 #29/MO 148255554 2955854 **A8** Hip Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:24 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-3MRI_7n54K?5EzHqfftVRckCin0S0tAInjq4FRyVqxP

Structural wood sheathing directly applied, except

5-20, 6-19, 8-19

2-0-0 oc purlins (3-1-4 max.): 6-7.

10-0-0 oc bracing: 22-23

1 Row at midpt

Rigid ceiling directly applied. Except:

Scale = 1:83.2



6x8 = 7x8 = 6.00 12 6 4x6 / 34 4x8 < 32 4x8 🖊 8 6x8 > 2x4 ≿ 5 9 31 3x6 II 10-5-9 10 35 24 23 4x6 || 22 20 19 13 21 18 8x12 = 5x8 = 4x8 🖊 2x4 II 16 15 5x12 MT20HS = 5x8 WB = 4x6 || 3.00 12 6x8 = 3x6 =4x8 = 2x4 || 2x4 ||

	1	4-3-8 8-3-3	12-1-12	20-0-0	24-0-0	27-10-8 29-1	0-8 ₁ 35-9-8	ı 41-8-8	44-0-0
		4-3-8 3-11-11	3-10-9	7-10-4	4-0-0	3-10-8 2-0)-0 ¹ 5-11-0	5-11-0	2-3-8
Plate Offs	ets (X,Y)	[2:0-1-14,0-1-7], [7:0-4-10),Edge], [9:0-4	-0,Edge], [11:0-8-14,0-0-0], [13:0-3-8,0-2-8], [14:0-3-0,0-0	-8], [17:0-3-0,0-0-0]		
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 0.64	Vert(LL)	-0.40 23-24	>999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.95 13-14	>556 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.52 12	n/a n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS				Weight: 342 lb	FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD 2x6 SPF No.2 *Except* TOP CHORD

6-7: 2x4 SPF No.2, 1-4: 2x6 SPF 2100F 1.8E

9-12: 2x8 SP 2400F 2.0E

2x4 SPF No.2 *Except*

2-24: 2x8 SP 2400F 2.0E, 21-23,11-18,18-21: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E *Except*

18-18: 2x4 SPF No.2

LBR SCAB 9-12 2x8 SP 2400F 2.0E both sides

WEDGE

BOT CHORD

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=171(LC 16)

Max Uplift 2=-269(LC 12), 12=-248(LC 13) Max Grav 2=2492(LC 1), 12=2416(LC 1)

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

TOP CHORD 2-3=-5525/634, 3-5=-4776/541, 5-6=-3387/411, 6-7=-2884/400, 7-8=-3366/416,

8-10=-5576/652, 10-11=-5338/495, 11-12=-1070/132

2-23=-624/4877, 23-24=-211/1024, 22-23=-416/4003, 20-22=-423/4070, 19-20=-173/2883, BOT CHORD

17-19=-240/3681, 14-17=-282/3536, 13-14=-240/3681, 11-13=-365/4905 WFBS 22-24=0/322, 5-24=-133/1233, 5-20=-1421/300, 6-20=-134/868, 6-19=-253/274, 7-19=-113/1045, 8-19=-1156/289, 8-13=-259/1783, 10-13=-1072/274, 3-24=-988/225

NOTES-

- 1) Attached 12-7-9 scab 9 to 12, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 7-11-15 from end at joint 9, nail 3 row(s) at 4" o.c. for 2-11-7.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-10-0, Interior(1) 1-10-0 to 20-0-0, Exterior(2E) 20-0-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 43-10-4 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 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) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 248 lb uplift at joint 12.





SSIONAL

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

Job	Truss	Truss Type Qt		Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2955854	A8	 Hip	1	1		148255554
200004	70	11.10	'		Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:24 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-3MRI_7n54K?5EzHqfftVRckCin0S0tAlnjq4FRyVqxP

- 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) 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.
- 11) 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 #29/MO 148255555 2955854 A9 Piggyback Base 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:26 2021 Page 1

6-9-8

2-5-12

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

7-1-14

7-1-14

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-?IY3PppLcxFoTHQDn4wzW1qWYaifUj9bE1JBKJyVqxN 35-11-1 38-7-5 25-4-12 27-10-8 33-2-14 2-8-3

Structural wood sheathing directly applied, except

3-21, 5-19, 7-19

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

Rigid ceiling directly applied.

1 Row at midpt

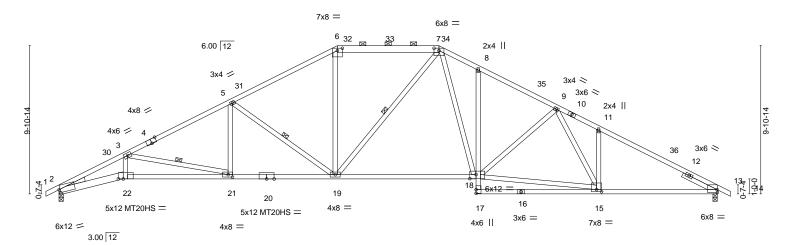
2-8-3

5-4-11

5-4-6

Scale = 1:77.0

0-10-8



	4-3-0	11-3-0	10-7-4		23-4-12	27-10-0	33-11-1	44-0-0
	4-3-8	7-1-14	7-1-14	ı	6-9-8	2-5-12	8-0-9	8-0-15
Plate Offsets (X,Y)		[2:0-0-14,0-2-9], [4:0-4-0,E	dge], [6:0-4-0,0-1-15],	7:0-4-0,0-1-15	[13:Edge,0-2-4],	[15:0-4-0,0-1-	-12], [18:0-5-0,0-3-4	4], [21:0-3-8,0-2-0], [22:0-4-0,0-0-1]
LOADING	i (psf)	SPACING-	2-0-0 CS	l.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL	1.15 TC	0.81	Vert(LL)	-0.35 21-22	>999 240	MT20 197/144
TCDL	20.0	Lumber DOL	1.15 BC	0.88	Vert(CT)	-0.91 18-19	>577 180	MT20HS 148/108
BCLL	0.0	Rep Stress Incr	YES WE	0.85	Horz(CT)	0.38 13	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2	2014 Ma	trix-AS				Weight: 221 lb FT = 20%
								<u> </u>

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

0-10-8

4-3-8

2x4 SPF 1650F 1.5E *Except* TOP CHORD

6-7: 2x6 SPF No.2, 7-10: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x6 SPF 2100F 1.8E, 20-22,13-16: 2x4 SP 2400F 2.0E

18-20: 2x4 SPF 1650F 1.5E

2x4 SPF No.2 **WEBS**

WEDGE

Left: 2x4 SP No.3

SLIDER

Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=155(LC 12)

Max Uplift 2=-270(LC 12), 13=-272(LC 13) Max Grav 2=2490(LC 1), 13=2504(LC 1)

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

TOP CHORD 2-3=-7063/811, 3-5=-4749/512, 5-6=-3581/444, 6-7=-3049/438, 7-8=-3810/528,

8-9=-3860/462, 9-11=-4097/531, 11-13=-4200/437

BOT CHORD 2-22=-829/6302, 21-22=-814/6214, 19-21=-442/4172, 18-19=-145/2997, 8-18=-338/140, 13-15=-286/3632

WEBS 3-22=-89/1111, 3-21=-2089/381, 5-21=-31/624, 5-19=-1362/298, 6-19=-58/910, 15-18=-254/3475, 9-18=-420/177, 11-15=-336/184, 7-18=-223/1256, 7-19=-195/329

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 18-7-4, Exterior(2R) 18-7-4 to 24-9-15, Interior(1) 24-9-15 to 25-4-12, Exterior(2R) 25-4-12 to 31-7-7, Interior(1) 31-7-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) The Fabrication Tolerance at joint 22 = 0%
- 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) 2 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 270 lb uplift at joint 2 and 272 lb uplift at
- 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.

Continued on page 2

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

OF MISS

SCOTT M.

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PE-2001018807

October 8,2021

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Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO
					148255555
2955854	A9	Piggyback Base	3	1	
					Job Reference (optional)

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:26 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-?IY3PppLcxFoTHQDn4wzW1qWYaifUj9bE1JBKJyVqxN

NOTES-

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

8.430 s Aug 16 2021 MTek Industries, Inc. Thu Oct 7 15:12:25 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-aBJLcnY1PbgHPQbTBJGsEtFA4f9QMbXOUpTet7yVmVK

Structural wood sheathing directly applied, except

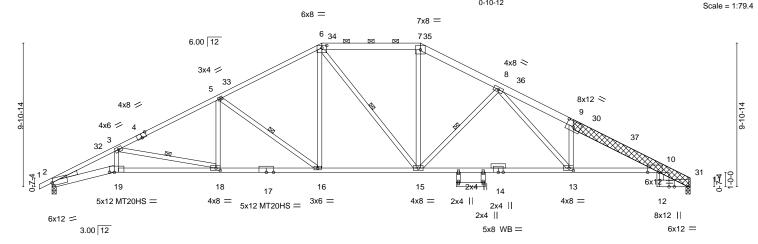
3-18, 5-16, 6-15, 8-15

2-0-0 oc purlins (3-8-14 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt





	4-3	-8 _I	11-5-6		18-7-4	1	25-4-12	27-10-8		35-9-8	41-8-8	44-0-0
	4-3	-8	7-1-14	- 1	7-1-14	1	6-9-8	2-5-12	2-0-0	5-11-0	5-11-0	2-3-8
Plate Offse	ts (X,Y)	[2:0-0-	14,0-2-9], [4:0-4-0,1	Edge], [6:0-4-0,0-1-15], [9:0	0-6-0,0-4-8]	, [10:0-9-8,0-0-0], [1	1:0-11-8	B,Edge],	[13:0-3-8,0-2-0]	l, [18:0-3-8,0-2-0], [19:0-4	-0,0-0-1]
		Ī										-
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	0.79	Vert(LL)	-0.36 1	18-19	>999 240	MT20	197/144
TCDL	20.0		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.94 1	13-15	>559 180	MT20HS	148/108
BCLL	0.0		Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.49	11	n/a n/a		
BCDL	10.0		Code IRC2018/TP	12014	Matrix	c-AS	1				Weight: 285	b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

6-7,7-9: 2x6 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19,11-12: 2x6 SPF 2100F 1.8E, 17-19: 2x4 SP 2400F 2.0E

10-12: 2x6 SPF No.2, 14-17,10-14: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

2x8 SP 2400F 2.0E *Except* **OTHERS** 14-14: 2x4 SPF No.2

9-11 2x8 SP 2400F 2.0E both sides LBR SCAB

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=160(LC 16)

Max Uplift 2=-242(LC 12), 11=-221(LC 13) Max Grav 2=2492(LC 1), 11=2417(LC 1)

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

2-32=-7059/706, 3-32=-6937/725, 3-4=-4761/475, 4-5=-4676/503, 5-33=-3570/419, TOP CHORD

6-33=-3413/453, 6-34=-3067/437, 34-35=-3073/437, 7-35=-3073/437, 7-8=-3524/449, 8-36=-5349/608, 9-36=-5536/593, 9-30=-5153/501, 30-37=-5261/482, 10-37=-5375/472,

10-31=-1270/145, 11-31=-1170/121

BOT CHORD $2 - 19 = -756/6299,\ 18 - 19 = -742/6211,\ 17 - 18 = -380/4183,\ 16 - 17 = -380/4183,\ 15 - 16 = -163/3037,$

14-15=-287/3816, 13-14=-287/3816, 10-13=-381/4910, 10-12=-53/609

WEBS 3-19=-81/1102, 3-18=-2075/370, 5-18=-20/663, 5-16=-1390/289, 6-16=-118/914,

6-15=-207/320, 7-15=-76/953, 9-13=-1012/236, 8-15=-1107/266, 8-13=-208/1606

NOTES-

- 1) Attached 9-3-7 scab 9 to 11, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-7 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-0-9 from end at joint 9, nail 3 row(s) at 7" o.c. for 2-9-11.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 18-7-4, Exterior(2R) 18-7-4 to 24-9-15, Interior(1) 24-9-15 to 25-4-12, Exterior(2R) 25-4-12 to 31-7-7, Interior(1) 31-7-7 to 43-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) The Fabrication Tolerance at joint 19 = 0%
- 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) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

OF MISS SCOTT M. SEVIER OFFESSIONAL . PE-2001018807

October 8,2021

inued on page 2

warnINMG - 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO
0055054	100	Dinastrati Dana			148255556
2955854	A9A	Piggyback Base	1	'	Job Reference (optional)

8.430 s Aug 16 2021 MTek Industries, Inc. Thu Oct 7 15:12:25 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-aBJLcnY1PbgHPQbTBJGsEtFA4f9QMbXOUpTet7yVmVK

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2 and 221 lb uplift at joint 11.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 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
 Ply
 SUMMIT/WOODSIDE RIDGE #29/MO

 2955854
 A10
 Piggyback Base
 1
 1
 1

 Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:08:57 2021 Page 1

Structural wood sheathing directly applied, except

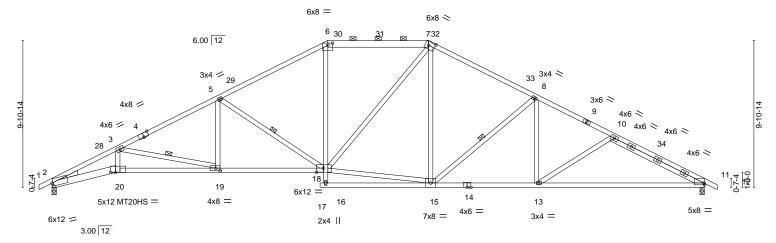
3-19, 5-18, 8-15

2-0-0 oc purlins (3-10-14 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:77.7



	4-3-8	₁ 11-2-4	18-1-0	18-7 ₋ 4 25-4-12 ₁ 32-8-4		34-8-3	44-0-0	1	
	4-3-8	6-10-12	6-10-12	0-6-4	6-9-8	7-3-8	1-11-15	9-3-13	1
Plate Offsets (X,Y) [2:0-0-14,0-2-9], [4:0-4-0			e], [6:0-3-12,0-1-12], [7:0-5-4,0-3-0], [11:Edge,0-1-8],	[18:0-5-12,0-3-4], [19:0-3	3-8,0-2-0], [2	0:0-4-0,0-0-1]	
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	0.80	Vert(LL)	-0.33 19-20 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1	.15 BC	0.87	Vert(CT)	-0.74 19-20 >715	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr Y	ES WB	0.66	Horz(CT)	0.33 11 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14 Matri	ix-AS				Weight: 224 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

6-7: 2x6 SPF No.2, 9-12: 2x4 SPF No.2

BOT CHORD 2x4 SP 2400F 2.0E *Except*

2-20: 2x6 SPF 2100F 1.8E, 14-17: 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 6-11-3

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=155(LC 12)

> Max Uplift 2=-269(LC 12), 11=-271(LC 13) Max Grav 2=2493(LC 1), 11=2506(LC 1)

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

TOP CHORD 2-3=-7040/807, 3-5=-4814/513, 5-6=-3591/448, 6-7=-3031/443, 7-8=-3217/427,

8-10=-3935/435, 10-11=-2031/202

BOT CHORD 2-20=-824/6278, 19-20=-809/6190, 18-19=-447/4236, 13-15=-247/3443, 11-13=-324/3699 WEBS 3-20=-96/1092, 3-19=-2002/371, 5-19=-18/683, 5-18=-1417/291, 7-15=-81/471,

3-20=-96/1092, 3-19=-2002/371, 5-19=-18/683, 5-18=-1417/291, 7-15=-81/471, 6-18=-71/925, 15-18=-133/2702, 7-18=-152/652, 8-15=-925/227, 8-13=-7/438,

10-13=-333/150

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 18-7-4, Exterior(2R) 18-7-4 to 24-9-15, Interior(1) 24-9-15 to 25-4-12, Exterior(2R) 25-4-12 to 31-7-7, Interior(1) 31-7-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) The Fabrication Tolerance at joint 20 = 0%
- 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) 2 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 269 lb uplift at joint 2 and 271 lb uplift at joint 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Continuetrochage plied directly to the bottom chord.



October 8,2021

MARNING - 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



Job		Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO
						148255557
2955	5854	A10	Piggyback Base	1	1	
						Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:08:57 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-M9I5JuS9R1bwUqjeaUuArw7Y1up1CfxKZ0o9oVyVqxq

11) 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 #29/MO 148255558 2955854 A11 Hip Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:08:59 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-IYQrkaUPzerek7s1hvwewLCrviS2gZhd1KHGtNyVqxo

Structural wood sheathing directly applied, except

6-19

4-19, 7-17, 9-17

2-0-0 oc purlins (3-4-11 max.): 7-8.

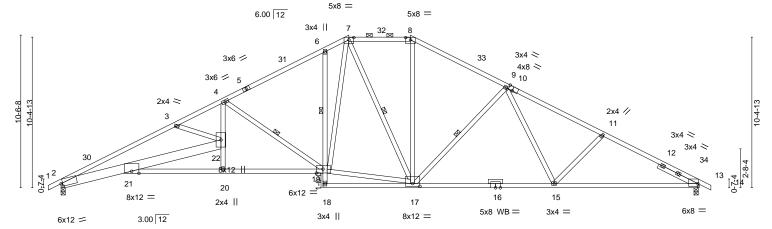
1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

44-0-0 44-10-8 0-10-8 -0-10-8 0-10-8 19-10-8 30-8-14 37-4-5 4-3-8 3-8-8 3-2-4 6-10-12 1-9-8 4-3-0 6-7-6 6-7-6 6-7-11

Scale = 1:79.6



	₁ 4-3-	-8 _I 11-2-4	1	18-1-0	19-10-8	24-1-8 _I	34-0	-9	44-0-0	T.
	4-3-	-8 6-10-12	ı	6-10-12	1-9-8	4-3-0	9-11	-1	9-11-7	<u> </u>
Plate Offse	ets (X,Y)	[2:0-1-6,0-2-7], [7:0-4-0,0	-1-15], [8:0-4-	0,0-1-15], [1	0:0-3-8,Edge], [13:Edge,0-2-4],	[17:0-6-0,0-2-4	·], [19:0-5-8,0-3-	4]	
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	0.97	Vert(LL)	-0.39 21-22	>999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.90 21-22	>584 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.42 13	n/a n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS				Weight: 242 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-5,10-14: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*

2-22: 2x8 SP 2400F 2.0E, 19-21: 2x4 SPF 1650F 1.5E

13-16: 2x4 SP 2400F 2.0E

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

SLIDER Right 2x4 SPF No.2 3-0-0

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

Max Horz 2=164(LC 12)

Max Uplift 2=-269(LC 12), 13=-270(LC 13) Max Grav 2=2490(LC 1), 13=2504(LC 1)

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

TOP CHORD 2-3=-5492/650, 3-4=-4808/531, 4-6=-3586/419, 6-7=-3446/485, 7-8=-2603/396,

8-9=-3058/404, 9-11=-3968/444, 11-13=-4238/463

2-21=-646/4797, 21-22=-218/856, 20-21=-431/4093, 19-20=-438/4172, 6-19=-384/181, **BOT CHORD** 15-17=-207/3240, 13-15=-318/3700

20-22=0/288, 4-22=-90/915, 4-19=-1316/264, 17-19=-129/2634, 7-19=-311/1675, 7-17=-599/139, 8-17=-83/797, 9-17=-933/260, 9-15=-53/537, 11-15=-391/185,

3-22=-655/204

NOTES-

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=15ft; 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 19-10-8, Exterior(2E) 19-10-8 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 44-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2 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 269 lb uplift at joint 2 and 270 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



October 8,2021

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 #29/MO 148255559 2955854 A12 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:01 2021 Page 1

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

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-ExYc9GVfVF6MzR0PpKz6?mHDqV847ROvUemNxGyVqxm

Structural wood sheathing directly applied, except

4-25, 7-25, 7-20

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

10-0-0 oc bracing: 27-28, 23-25

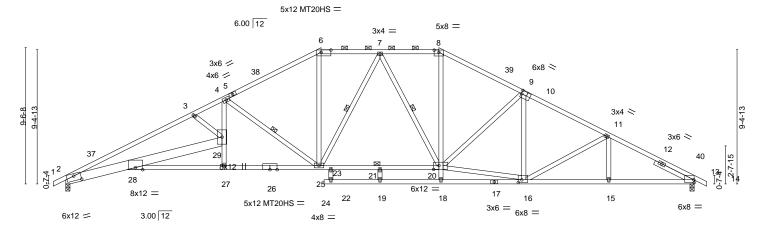
1 Row at midpt

1 Brace at Jt(s): 21

Rigid ceiling directly applied. Except:

44-0-0 5-11-11 26-1-8 6-9-8 4-1-8

Scale = 1:80.7



			18-5-0						
4-3-8	11-1-0	17-10-8	18 ₁ 1-0	22-0-0	26-1-8	32-0-14	38-0-5	44-0-0	ī
4-3-8	6-9-8	6-9-8	0-2 ^l -8	3-7-0	4-1-8	5-11-6	5-11-6	5-11-11	1
			0-4-0						

Plate Offsets (X,Y)	[2:0-6-0,0-4-0], [6:0-8-4,0-2-0], [8:0-4-0	0-1-15], [10:0-0-8,0-3-0],	[13:Edge,0-2-4], [16:0-3-0,0-2-4], [20:0-4-8,0-3-4]	
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 0.88	Vert(LL) -0.38 28-29 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.87 28-29 >605 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.43 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 256 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-2x4 SPF 1650F 1.5E *Except* TOP CHORD

6-8: 2x4 SPF No.2, 1-5,10-14: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-29: 2x8 SP 2400F 2.0E, 26-28: 2x4 SPF 1650F 1.5E

13-17: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 3-0-0

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

Max Horz 2=147(LC 12)

Max Uplift 2=-270(LC 12), 13=-272(LC 13)

Max Grav 2=2496(LC 1), 13=2508(LC 1)

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

TOP CHORD 2-3=-5397/615, 3-4=-4869/556, 4-6=-3681/413, 6-7=-3170/405, 7-8=-3153/406,

8-9=-3629/416, 9-11=-3864/426, 11-13=-4233/451

2-28=-587/4700, 28-29=-169/749, 27-28=-419/4103, 25-27=-429/4200, 23-25=-181/3261, **BOT CHORD**

21-23=-181/3261, 20-21=-181/3261, 15-16=-314/3695, 13-15=-314/3695 4-29=-132/1044, 18-20=0/278, 8-20=-99/1132, 16-20=-223/3365, 11-16=-386/140,

6-25=-82/1065, 4-25=-1254/267, 9-20=-404/196, 7-25=-431/137, 7-20=-457/134,

3-29=-624/180

NOTES-

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=15ft; 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 17-10-8, Exterior(2R) 17-10-8 to 22-0-0, Interior(1) 22-0-0 to 26-1-8, Exterior(2R) 26-1-8 to 30-4-7, Interior(1) 30-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated
- 6) The Fabrication Tolerance at joint 6 = 8%
- 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) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2 and 272 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





October 8,2021

MiTek

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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Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
2955854	A12	Hip	1	1		148255559
2000004	/\\\Z	1 110			Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:01 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-ExYc9GVfVF6MzR0PpKz6?mHDqV847ROvUemNxGyVqxm

NOTES-

- 11) 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.
- 12) 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 #29/MO 148255560 2955854 A13 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:03 2021 Page 1

5-0-4

18-1-0

2-2-8

15-10-8

5-9-8

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-AJfMayXw0tM3ClAowl?a4BNbbJqfbKRCyyFT08yVqxk 36-0-9 7-11-1 28-1-8 44-0-0 5-0-4 7-11-7 0-10-8

Structural wood sheathing directly applied, except

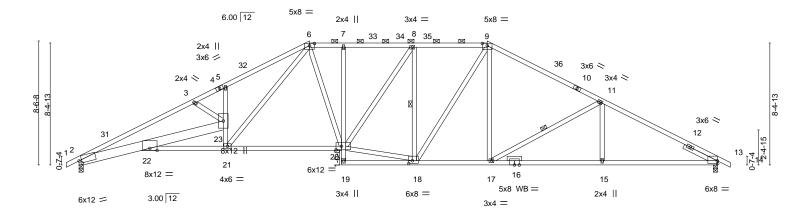
8-18, 11-17

2-0-0 oc purlins (2-7-12 max.): 6-9.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:79.4



	4-3-8	10-1-0	15-10	-8 ₁ 18-1-0	23-1-4	28-1-8	1	36	5-0-9	44-0-0	
	4-3-8	5-9-8	5-9-8	8 2-2-8	5-0-4	5-0-4	1	7-	11-1	7-11-7	
Plate Offsets	s (X,Y) [2	:0-2-2,0-2-3], [6:0-4-0,0-	1-15], [9:0-4-0	0,0-1-15], [13:Ed	dge,0-2-4], [18:0-3	3-0,0-2-4], [20:	0-4-8,0-3-	0]			
LOADING (psf)	SPACING-	2-0-0	CSI.	[EFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC 0.	73 \	ert(LL) -0.	34 22-23	>999	240	MT20	197/144
TCDL 2	20.0	Lumber DOL	1.15	BC 0.	99 \	ert(CT) -0.	76 20-21	>688	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.	79 F	lorz(CT) 0.	39 13	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TP	I2014	Matrix-A	s					Weight: 248 lb	FT = 20%
										-	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP 2400F 2.0E *Except* TOP CHORD

4-3-8

3-8-8

2-1-0

6-9: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

2-23: 2x8 SP 2400F 2.0E, 20-22: 2x4 SPF 1650F 1.5E

13-16: 2x4 SP 2400F 2.0E

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

SLIDER Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=131(LC 12)

Max Uplift 2=-275(LC 12), 13=-277(LC 13) Max Grav 2=2490(LC 1), 13=2504(LC 1)

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

TOP CHORD 2-3=-5589/648, 3-5=-5059/577, 5-6=-4931/645, 6-7=-3623/430, 7-8=-3615/431,

8-9=-3268/419, 9-11=-3535/402, 11-13=-4244/460

BOT CHORD 2-22=-611/4894, 22-23=-181/803, 21-22=-435/4246, 20-21=-270/3419, 7-20=-379/101,

17-18=-153/3018, 15-17=-305/3686, 13-15=-305/3686 21-23=-1055/290, 18-20=-160/3218, 8-20=-133/666, 8-18=-1056/179, 9-18=-130/667,

9-17=-55/539, 11-17=-777/229, 11-15=0/275, 6-21=-280/1494, 6-20=-121/831,

3-23=-616/180

NOTES-

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=15ft; 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 15-10-8, Exterior(2R) 15-10-8 to 20-1-7, Interior(1) 20-1-7 to 28-1-8, Exterior(2R) 28-1-8 to 32-4-7, Interior(1) 32-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2 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 275 lb uplift at joint 2 and 277 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.



October 8,2021





MiTek

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255561 2955854 A14 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:05 2021 Page 1

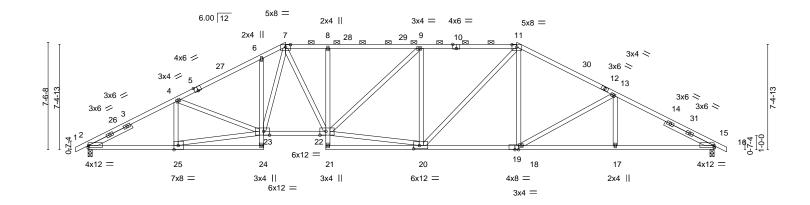
ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-7in7?dYAYUcnS2KB2A12AcSui7XR3CVVPFka41yVqxi 13-10-8 16-8-8 1-6-8 2-10-0 44-0-0 30-1-8 37-0-9 6-8-8 6-8-8 6-11-1 6-11-7 0-10-8

Structural wood sheathing directly applied, except

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

2-0-0 oc purlins (2-2-0 max.): 7-11.

Scale = 1:81.0



13-10-8 16-8-8 1-6-8 2-10-0 23-5-0 30-1-8 37-0-9 6-1-13 6-8-8 6-11-7 6-8-8

Plate Offsets (X,Y)--[2:Edge,0-1-12], [5:0-3-0,Edge], [7:0-4-0,0-1-15], [10:0-3-0,Edge], [11:0-4-0,0-1-15], [15:Edge,0-1-12], [19:0-3-0,0-0-0], [20:0-4-12,0-2-12], [22:0-5-0

,0-3-4], [23:0-5-0,0-3-4], [25:0-3-8,Edge]

LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.95 BC 0.84	DEFL. in (loc) l/defl L/d Vert(LL) -0.26 22-23 >999 240 Vert(CT) -0.60 22-23 >880 180	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.95 Matrix-S	Horz(CT) 0.25 15 n/a n/a	Weight: 231 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF 1650F 1.5E *Except*

5-7,11-12: 2x4 SP 2400F 2.0E

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

2-24,15-19: 2x4 SP 2400F 2.0E, 22-23: 2x4 SPF 1650F 1.5E

2x4 SPF No.2 **WEBS**

-0₋10₋8 0-10-8

6-2-3

6-1-13

SLIDER Left 2x4 SPF No.2 3-4-5, Right 2x4 SPF No.2 3-9-8

REACTIONS. (size) 2=0-3-8, 15=0-3-8

Max Horz 2=115(LC 16)

Max Uplift 2=-279(LC 12), 15=-279(LC 13) Max Grav 2=2496(LC 1), 15=2496(LC 1)

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

TOP CHORD 2-4=-4361/462, 4-6=-4455/500, 6-7=-4413/572, 7-8=-4082/474, 8-9=-4066/474,

9-11=-3739/440, 11-13=-3701/420, 13-15=-4342/465

BOT CHORD 2-25=-436/3692, 6-23=-385/151, 22-23=-304/3648, 8-22=-541/147, 18-20=-175/3192, 17-18=-317/3699, 15-17=-317/3699

4-25=-500/128, 23-25=-425/3530, 4-23=-70/399, 20-22=-258/3581, 9-22=-148/526,

9-20=-1058/224, 11-20=-169/956, 11-18=-36/477, 13-18=-589/189, 13-17=0/263,

7-23=-218/1038, 7-22=-172/1092

NOTES-

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=15ft; 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 13-10-8, Exterior(2R) 13-10-8 to 18-1-7, Interior(1) 18-1-7 to 30-1-8, Exterior(2R) 30-1-8 to 34-4-7, Interior(1) 34-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 279 lb uplift at joint 2 and 279 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.

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



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255562 2955854 A15 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

7-8-8

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-buLVCzZoJoke3CvNctZHip?69WsJofNfevT7cTyVqxh 38-0-9 44-0-0 7-8-8 5-11-1 5-11-7 0-10-8

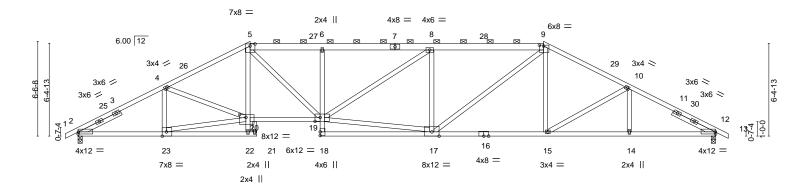
Structural wood sheathing directly applied or 2-9-14 oc purlins,

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

2-0-0 oc purlins (2-10-9 max.): 5-9.

2-2-0 oc bracing: 15-17.

Scale = 1:79.5



		5-11-7 11-10 5-11-7 5-11		16-8-8 4-4-8	24-5-0 7-8-8	-	32-1-8 7-8-8		38-0-9 5-11-1	44-0-0 5-11-7	
Plate Offs	ets (X,Y)	[2:Edge,0-1-12], [5:0-4-0				9:0-4-4,0-3-		ge], [24:0		0117	
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	0.71	Vert(LL)	-0.28 6	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.64 17-18	>818	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.26 12	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	r-S					Weight: 238 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

2x4 SP 2400F 2.0E *Except* TOP CHORD TOP CHORD

5-7,7-9: 2x6 SPF No.2 2x4 SPF No.2 *Except*

BOT CHORD 2-21,12-16: 2x4 SP 2400F 2.0E, 19-20: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*

17-19: 2x4 SPF 1650F 1.5E

-0-10-8 0-10-8

5-11-7

5-11-1

4-4-8

SLIDER Left 2x4 SPF No.2 3-2-12, Right 2x4 SPF No.2 3-2-12

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

Max Horz 2=98(LC 12)

Max Uplift 2=-277(LC 12), 12=-281(LC 13) Max Grav 2=2505(LC 1), 12=2499(LC 1)

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

TOP CHORD 2-4=-4396/461, 4-5=-4639/503, 5-6=-4988/529, 6-8=-4953/526, 8-9=-4409/478,

9-10=-3880/442, 10-12=-4375/472

BOT CHORD 2-23=-421/3724, 19-20=-357/4081, 6-19=-657/171, 17-18=-16/274, 15-17=-221/3413, 14-15=-333/3705, 12-14=-333/3705

4-23=-542/131, 5-19=-233/1420, 17-19=-378/4165, 8-19=-182/725, 8-17=-1226/265, 9-17=-229/1400, 9-15=-16/398, 10-15=-344/146, 5-20=-58/648, 20-23=-418/3689,

4-20=-100/565

NOTES-

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=15ft; 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 11-10-8, Exterior(2R) 11-10-8 to 16-1-7, Interior(1) 16-1-7 to 32-1-8, Exterior(2R) 32-1-8 to 36-4-7, Interior(1) 36-4-7 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 277 lb uplift at joint 2 and 281 lb uplift at joint 12.
- 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.



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255563 2955854 A16 Hip Structural Gable Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:08 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-XHTFdfb2rP_MJW2ljIblnE4QsKdWGeLx5DyEhMyVqxf

7-0-8

30-8-0

3-5-8

27-2-8

3-5-8

34-1-8

3-5-8

Structural wood sheathing directly applied, except end verticals, and

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

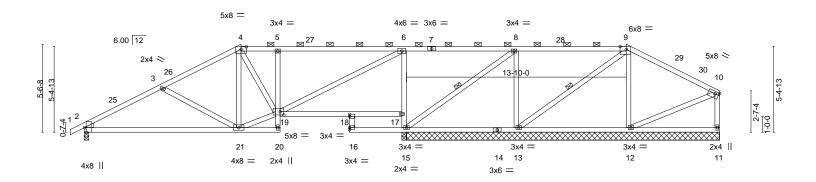
Rigid ceiling directly applied.

1 Row at midpt

40-0-0

5-10-8

Scale = 1:72.5



		9-10-8	12-4-0	16-8-8	1 20-3-8	1 27-2-8	34-1-8	40-0-0	
	1	9-10-8	2-5-8	4-4-8	3-7-0	6-11-0	6-11-0	5-10-8	<u> </u>
Plate Offse	ts (X,Y)	[2:0-3-8,Edge], [4:0-4-0,0	-1-15], [9:0-4-1	10,Edge], [10:Ed	ge,0-1-12], [18	:0-0-0,0-1-8], [19:0-2-12,0-2	?-8]		
LOADING	· /	SPACING-	2-0-0	CSI.		DEFL. in (loc)	l/defl L/d	PLATES	GRIP
	25.0	Plate Grip DOL	1.15	TC 0.8	-	Vert(LL) -0.14 21-24	>999 240	MT20	197/144
	20.0	Lumber DOL	1.15	BC 0.6		Vert(CT) -0.30 21-24	>803 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.6	I	Horz(CT) 0.02 15	n/a n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix-AS	•			Weight: 179 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

-0-10-8 0-10-8

4-11-7

4-11-1

2-5-8

4-4-8

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

REACTIONS. All bearings 19-8-8 except (jt=length) 2=0-3-8.

Max Horz 2=125(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 11 except 2=-170(LC 12), 15=-224(LC 9), 13=-138(LC 13) Max Grav All reactions 250 lb or less at joint(s) except 2=1089(LC 25), 12=594(LC 26), 11=308(LC 26), 15=1764(LC 25), 15=1763(LC 1), 13=733(LC 26)

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

TOP CHORD 2-3=-1589/288, 3-4=-1145/220, 4-5=-1052/258, 5-6=-1098/269, 6-8=-11/280,

10-11=-259/82

BOT CHORD 2-21=-273/1353, 5-19=-580/163, 18-19=-289/40

3-21=-479/165, 19-21=-62/938, 4-19=-104/322, 6-19=-236/1561, 9-12=-456/121, WFBS

15-17=-1437/268, 6-17=-1412/273, 8-13=-508/183, 8-15=-265/26

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=15ft; 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 9-10-8, Exterior(2R) 9-10-8 to 14-1-7, Interior(1) 14-1-7 to 34-1-8, Exterior(2R) 34-1-8 to 38-4-7, Interior(1) 38-4-7 to 39-10-4 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) The Fabrication Tolerance at joint 9 = 4%
- 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) 12, 11 except (jt=lb) 2=170, 15=224, 13=138.
- 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 #29/MO 148255564 2955854 A17 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:10 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Tga?2LcJN0E4YpC8rjdDtf9m08JHkWQEZXRLIEyVqxd

3-5-4

22-4-4

2-2-8

28-0-0

5-7-12

30-0-0 | 32-0-0 | 2-0-0 |

36-0-0

4-0-0

Structural wood sheathing directly applied, except end verticals, and

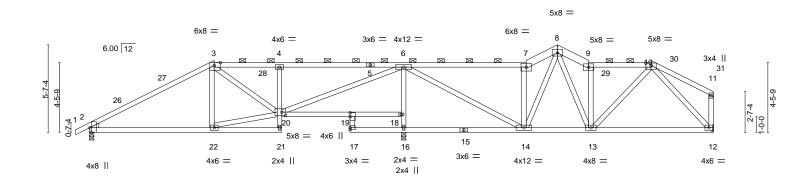
2-0-0 oc purlins (5-0-10 max.): 3-7, 9-10.

Rigid ceiling directly applied.

40-0-0

4-0-0

Scale = 1:73.8



		8-0-0	12-4-0	16-8-8	20-1-12	28-0-0	32-0-0	36-0-0 1 40	-0-0
		8-0-0	4-4-0	4-4-8	3-5-4	7-10-4	4-0-0	4-0-0 4-	0-0
Plate Offs	sets (X,Y)	[2:0-3-8,Edge], [3:0-4-10	,Edge], [10:0-4-0	,0-1-15], [19:0-3-0	,0-0-0], [20:0	-2-12,0-2-8]			
LOADING	(psf)	SPACING-	2-0-0	CSI.	1	DEFL. in (loc) I/d	efl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.85	\	/ert(LL) -0.09 12-13 >99	99 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.60	\	/ert(CT) -0.22 22-25 >99	99 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.71		Horz(CT) 0.03 2 r	n/a n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix-AS				Weight: 184 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

8-0-0

4-4-0

4-4-8

3-5,5-7: 2x4 SPF 1650F 1.5E, 7-8,8-9: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

15-17: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 12=Mechanical

Max Horz 2=127(LC 11)

Max Uplift 2=-172(LC 12), 16=-291(LC 12), 12=-122(LC 13) Max Grav 2=1087(LC 25), 16=2407(LC 1), 12=974(LC 1)

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

TOP CHORD 2-3=-1444/243, 3-4=-1314/294, 4-6=-1385/310, 6-7=-964/213, 7-8=-1209/277,

8-9=-1241/248, 9-10=-1044/196

BOT CHORD 2-22=-201/1164, 4-20=-519/165, 19-20=-354/23, 16-17=-309/2, 14-16=-339/18, 13-14=-113/835, 12-13=-122/702

20-22=-165/1075, 16-18=-2187/358, 6-18=-2170/362, 6-14=-154/1482, 7-14=-1014/233, 8-14=-150/469, 8-13=-107/624, 9-13=-814/160, 10-13=-33/504, 10-12=-951/160,

6-20=-276/1846

NOTES-

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=15ft; 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 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-0-0, Interior(1) 32-0-0 to 36-0-0, Exterior(2R) 36-0-0 to 39-0-0, Interior(1) 39-0-0 to 39-10-4 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) except (jt=lb) 2=172, 16=291, 12=122,
- 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.



October 8,2021

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 #29/MO 148255565 2955854 A18 Roof Special Girder Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:12 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-P2imT1eZveUon7MXy8fhy4F69x?bCQqX0rwSq7yVqxb

Structural wood sheathing directly applied or 2-11-11 oc purlins,

8-17

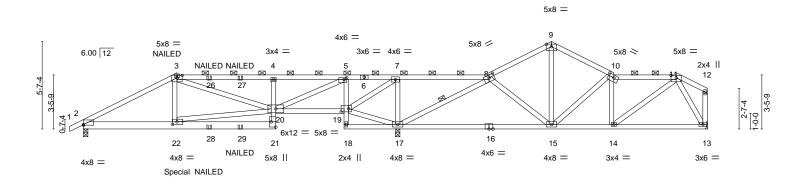
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-6-1 max.): 3-8, 10-11.

26-0-0 30-0-0 34-0-0 38-0-0 2-11-13 3-2-0 3-2-0 4-4-8 3-5-4 1-2-8 4-7-12 4-0-0 4-0-0 4-0-0 2-0-0

Scale = 1:73.8



	3-0-3	6-0-0	12-4-0	16-8-8	20-1-12	1 26-	·0-0	30-0-0	1 34-0-0	38-0-0	40-0-0
	3-0-3	2-11-13	6-4-0	4-4-8	3-5-4	5-1	0-4	4-0-0	4-0-0	4-0-0	2-0-0
Plate Offsets (X	,Y) [2	:0-0-0,0-0-7], [3:0-4-0,0	0-1-15], [5:0-2-0,0	0-1-8], [8:0-4-0,0-2	2-0], [10:0-4-8	3,0-2-0], [11:	:0-4-0,0-1-15]	, [19:0-5-12,0	-2-8], [21:Edge,	0-3-8], [22:0-3-8	,0-2-0]
LOADING (psf)		SPACING-	2-0-0	CSI.	1	DEFL.	in (loc)	l/defl L	/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.81	\	Vert(LL)	-0.15 15-17	>999 24	10	MT20	197/144
TCDL 20.0		Lumber DOL	1.15	BC 0.55	\	Vert(CT)	-0.30 15-17	>780 18	30		
BCLL 0.0		Rep Stress Incr	NO	WB 0.72	H	Horz(CT)	0.04 13	n/a n	/a		
BCDL 10.0		Code IRC2018/T	PI2014	Matrix-MS						Weight: 186 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

3-6,6-8: 2x4 SPF 1650F 1.5E 2x4 SPF No.2 *Except*

BOT CHORD

2-21: 2x6 SPF No.2, 16-18: 2x4 SP 2400F 2.0E 2x4 SPF No.2

WEBS

REACTIONS. (size) 2=0-3-8, 13=Mechanical, 17=0-3-8

Max Horz 2=126(LC 7)

Max Uplift 2=-326(LC 8), 13=-183(LC 30), 17=-525(LC 8) Max Grav 2=1594(LC 21), 13=738(LC 1), 17=3270(LC 1)

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

TOP CHORD 2-3=-2709/590, 3-4=-2180/506, 4-5=-2160/497, 5-7=-74/600, 7-8=-366/2003,

8-9=-707/275, 9-10=-695/258, 10-11=-876/270

BOT CHORD 2-22=-537/2326, 21-22=-90/387, 4-20=-649/180, 19-20=-555/106, 5-19=-1479/329,

15-17=-382/450, 14-15=-262/884, 13-14=-122/383

WFBS 3-22=-119/609, 5-20=-612/2916, 8-15=-77/639, 9-15=-166/289, 10-15=-510/114,

10-14=-325/149, 7-17=-1414/327, 17-19=-1989/415, 7-19=-355/1691, 8-17=-2170/302,

11-14=-185/654, 11-13=-713/224, 20-22=-446/1932, 3-20=-276/151

- 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=15ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 13=183, 17=525.
- 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/TPL1
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 633 lb down and 212 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



October 8,2021

Continued on page 2

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

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

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
					I48255565	5
2955854	A18	Roof Special Girder	1	1		
					Job Reference (optional)	

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:12 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-P2imT1eZveUon7MXy8fhy4F69x?bCQqX0rwSq7yVqxb

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 11-12=-90, 21-23=-20, 19-20=-20, 13-18=-20

Concentrated Loads (lb)

Vert: 3=-73(F) 22=-633(F) 26=-73(F) 27=-73(F) 28=-138(F) 29=-138(F)



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255566 2955854 В1 Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:29 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-QJEB1rrDvsdNKk9oSCTg8gSCToxmhHJ1w_YrweyVqxK 0-10-8 20-0-0 10-0-0 10-0-0 0-10-8

4x6 =

Scale = 1:37.4

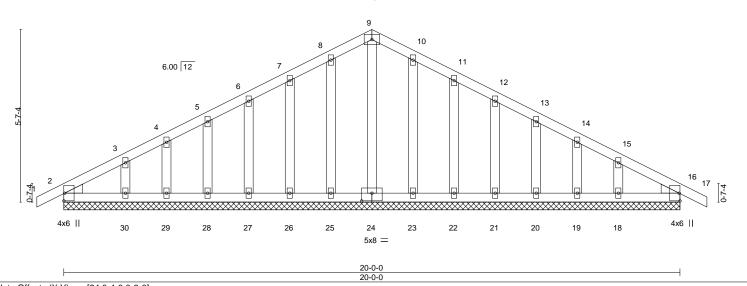


Plate Offsets (X,Y)--[24:0-4-0,0-3-0] **PLATES** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 16 120 197/144 n/r MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 16 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 16 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 95 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 20-0-0.

Max Horz 2=86(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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

NOTES-

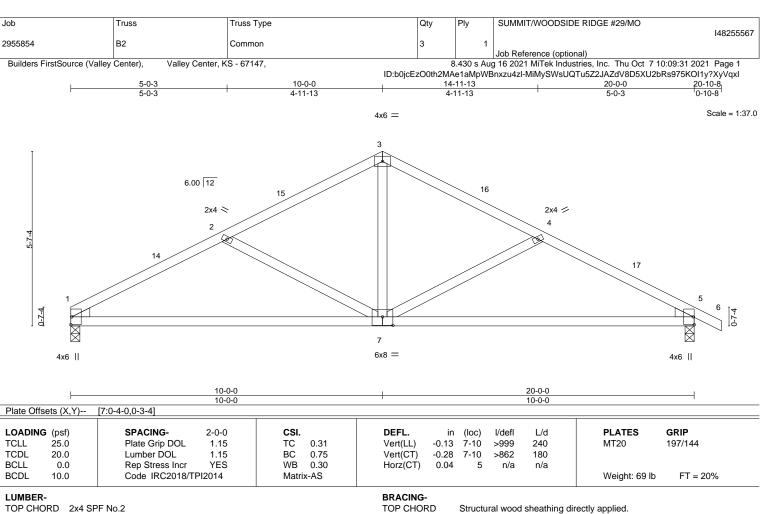
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28,
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 16.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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





BOT CHORD

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) 1=0-3-8, 5=0-3-8

Max Horz 1=-93(LC 17)

Max Uplift 1=-112(LC 12), 5=-129(LC 13) Max Grav 1=1098(LC 1), 5=1180(LC 1)

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

1-2=-1770/306, 2-3=-1323/242, 3-4=-1323/240, 4-5=-1765/301

BOT CHORD 1-7=-197/1511, 5-7=-196/1504

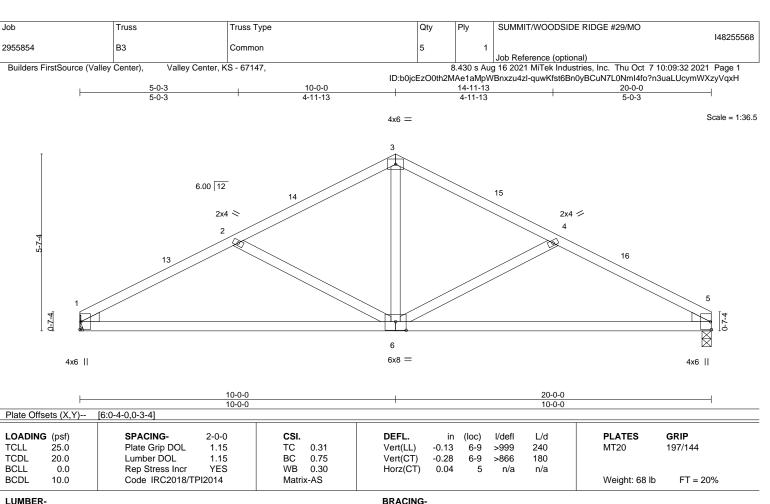
3-7=-64/638, 4-7=-499/178, 2-7=-507/179 **WEBS**

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=15ft; 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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1=112, 5=129.
- 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.







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, Right: 2x4 SPF No.2

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

Max Horz 1=79(LC 16)

Max Uplift 1=-112(LC 12), 5=-112(LC 13) Max Grav 1=1100(LC 1), 5=1100(LC 1)

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

TOP CHORD 1-2=-1774/307, 2-3=-1327/243, 3-4=-1327/243, 4-5=-1774/307

BOT CHORD 1-6=-216/1514, 5-6=-211/1514

3-6=-64/640, 4-6=-507/180, 2-6=-507/179 **WEBS**

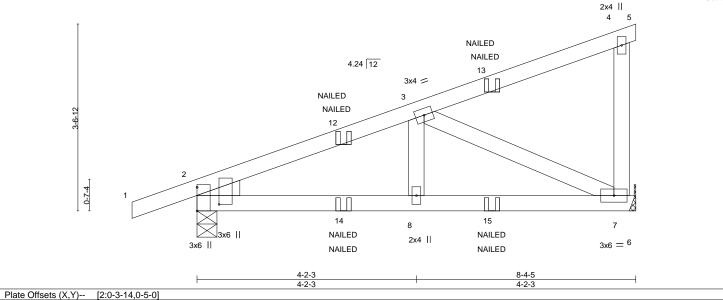
NOTES-

- 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=15ft; 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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 20-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=112, 5=112.
- 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.





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255569 2955854 CJ1 Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:33 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-I5TitCuky58ppMTZh2YclWcqtPDMd2adrcW33PyVqxG 1-2-14 4-2-3 4-2-3



1 1010 011	3Ct3 (X, 1)	[2.0 0 14,0 0 0]			
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 0.29	Vert(LL) -0.01 7-8 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.04 7-8 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.23	Horz(CT) 0.01 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 32 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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=134(LC 7)

Max Uplift 7=-126(LC 8), 2=-134(LC 4) Max Grav 7=523(LC 1), 2=601(LC 1)

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

TOP CHORD 2-3=-740/148

BOT CHORD 2-8=-172/655, 7-8=-172/655

WEBS 3-7=-720/202

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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
- 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) except (jt=lb) 7=126, 2=134.
- 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, 4-5=-40, 6-9=-20

Concentrated Loads (lb)

Vert: 13=-7(F=-3, B=-3) 14=-12(F=-6, B=-6) 15=-88(F=-44, B=-44)



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

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

except end verticals.

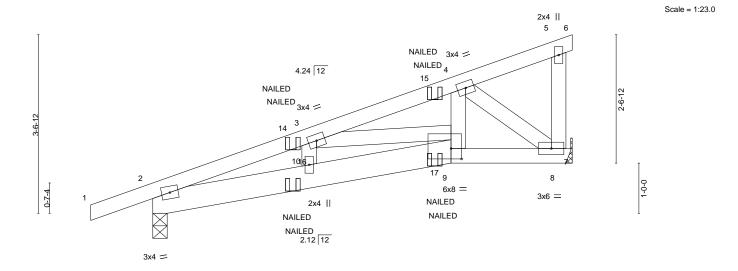
October 8,2021

Scale = 1:21.9





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255570 2955854 CJ₂ Diagonal Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:34 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-mH144YvMjOGgQW2IFm3rrj91rpaLMXim4GFccryVqxF 5-11-5 1-2-14 3-1-7 2-9-15 2-5-0



		3-1-7	2-9-15	2-5-0	
Plate Offsets (X,Y)	[9:0-2-8,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 20.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.15 BC 0.32	Vert(LL) -0.02 10 Vert(CT) -0.04 9-10	>999 240 >999 180	MT20 197/144
BCLL 0.0	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.01 8	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 35 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2-9: 2x6 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=Mechanical, 2=0-3-7

Max Horz 2=116(LC 5)

Max Uplift 8=-130(LC 8), 2=-138(LC 4) Max Grav 8=525(LC 1), 2=604(LC 1)

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

TOP CHORD 2-3=-1089/245, 3-4=-702/159

BOT CHORD 2-10=-273/994, 9-10=-278/1021, 8-9=-170/586 **WEBS** 3-9=-368/112, 4-9=-79/380, 4-8=-725/212

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=130, 2=138.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (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: 1-5=-90, 5-6=-40, 9-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 15=-3(F=-2, B=-2) 16=-15(F=-8, B=-8) 17=-93(F=-47, B=-47)



Structural wood sheathing directly applied or 5-7-6 oc purlins,

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

except end verticals.

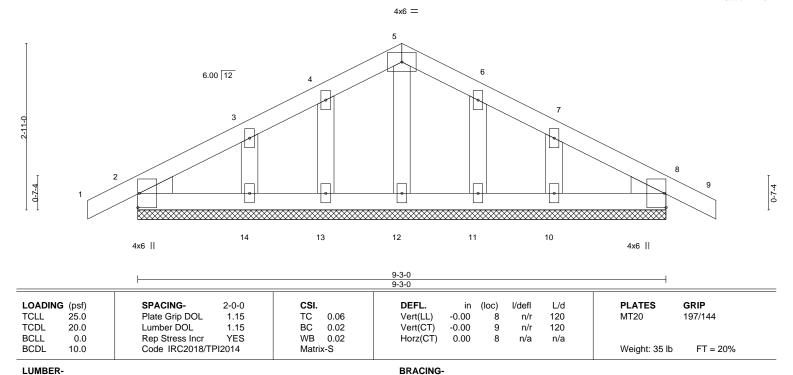






Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255571 2955854 D1 Common Supported Gable Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:35 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-ETbSluw_UiOX2fdyoTa4OxiEyD_B5?Lwlw?A8IyVqxE 10-1-8 9-3-0 0-10-8 4-7-8 4-7-8 0-10-8

Scale = 1:20.2



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. All bearings 9-3-0.

Max Horz 2=-44(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 4-7-8, Corner(3R) 4-7-8 to 7-7-8, Exterior(2N) 7-7-8 to 10-1-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255572 2955854 D2 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:36 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-jg9rVEwcF0WOgpB8MB5Jw8EMEcHaqSG3XakjgkyVqxD 10-1-8 0-10-8 4-7-8 0-10-8 Scale = 1:20.7 4x6 = 3 6.00 12 15 16

		7-8 7-8	9-3-0 4-7-8							
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.22 BC 0.20 WB 0.04	DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01	(loc) I/defl L/d 6-9 >999 240 6-9 >999 180 2 n/a n/a	PLATES GRIP MT20 197/144					
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 29 lb FT = 20%					

BRACING-

TOP CHORD

BOT CHORD

6 2x4 ||

LUMBER-

0-7-4

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=0-3-8, 4=0-5-8

4x6

Max Horz 2=-44(LC 13)

Max Uplift 2=-69(LC 12), 4=-69(LC 13) Max Grav 2=587(LC 1), 4=587(LC 1)

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

TOP CHORD 2-3=-637/220, 3-4=-637/220 BOT CHORD 2-6=-93/500, 4-6=-93/500

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=15ft; 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 4-7-8, Exterior(2R) 4-7-8 to 7-7-8, Interior(1) 7-7-8 to 10-1-8 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) 2, 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.



4x6 ||

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

October 8,2021



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

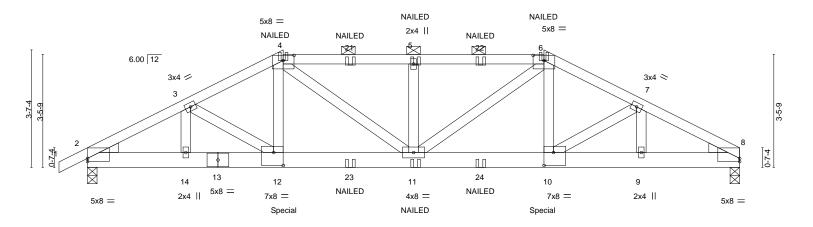
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255573 2955854 E1 Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-f2Hbwwytndm6v7LWUb7n?ZJYAQmBII9M?uDqldyVqxB 0-10-8 14-0-0 16-11-13 20-0-0 3-0-3 2-11-13 4-0-0 4-0-0 2-11-13 3-0-3

Scale = 1:35.3



		3-0-3	6-0-0	1	10-0-0	1		14-0	-0		16-11-	13 , 2	20-0-0
	ı	3-0-3	2-11-13	1	4-0-0	1		4-0-	0		2-11-1	3	3-0-3
Plate Offse	ets (X,Y)	[2:Edge,0-1-3], [4:0-4-0,0	0-1-15], [6:0-4-0	,0-1-15], [8:0)-0-0,0-1-3],	[10:0-3-8,	0-4-12],	[12:0-3-	8,0-4-1	2]			
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DE	FL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Ve	rt(LL)	-0.11	11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.96	Ve	rt(CT)	-0.24	11	>989	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Но	rz(CŤ)	0.06	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	-MS		` ,					Weight: 94 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 2x6 SPF No.2 **BOT CHORD**

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=59(LC 33)

Max Uplift 8=-431(LC 9), 2=-448(LC 8) Max Grav 8=2121(LC 1), 2=2200(LC 1)

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

TOP CHORD 2-3=-3672/768, 3-4=-3865/855, 4-5=-4051/885, 5-6=-4051/885, 6-7=-3876/857,

7-8=-3696/774

BOT CHORD 2-14=-691/3213, 12-14=-691/3213, 11-12=-722/3423, 10-11=-679/3432, 9-10=-651/3235,

8-9=-651/3235

WEBS 3-14=-355/105, 3-12=-223/415, 4-12=-184/785, 4-11=-200/859, 5-11=-657/171,

6-11=-197/849, 6-10=-187/795, 7-10=-230/410, 7-9=-344/102

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=15ft; 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)
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 633 lb down and 212 lb up at 6-0-0, and 633 lb down and 212 lb up at 13-11-4 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



Structural wood sheathing directly applied or 2-8-2 oc purlins, except

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

Rigid ceiling directly applied or 8-8-7 oc bracing.

October 8,2021

Continued on page 2



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

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

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 #29/MO
0055054	F.4	LIF OF L			148255573
2955854	E1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:38 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-f2Hbwwytndm6v7LWUb7n?ZJYAQmBII9M?uDqldyVqxB

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, 15-18=-20

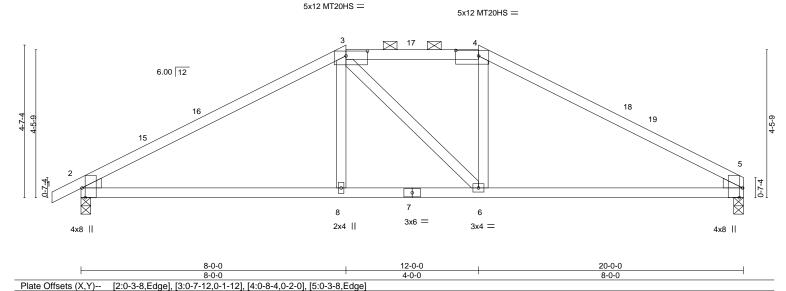
Concentrated Loads (lb)

 $\text{Vert: 4=-73(F) } \stackrel{.}{\text{6}=-73(F)} \stackrel{.}{\text{12}=-633(F)} \stackrel{.}{\text{11}=-138(F)} \stackrel{.}{\text{5}=-73(F)} \stackrel{.}{\text{10}=-633(F)} \stackrel{.}{\text{21}=-73(F)} \stackrel{.}{\text{22}=-73(F)} \stackrel{.}{\text{23}=-138(F)} \stackrel{.}{\text{24}=-138(F)} \stackrel{.}{\text{24}=$



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255574 2955854 E2 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-7Frz7FzVYwuyXHwj1Je0YnsiwqCZ1nxVDYzNH3yVqxA 12-0-0 20-0-0 0-10-8 8-0-0 4-0-0 8-0-0

Scale = 1:34.8



SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/def L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.90 Vert(LL) 0.09 6-14 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.63 Vert(CT) -0.22 6-14 >999 180 MT20HS 148/108 **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 66 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

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=0-3-8, 5=0-3-8

Max Horz 2=76(LC 16)

Max Uplift 2=-133(LC 12), 5=-116(LC 13) Max Grav 2=1180(LC 1), 5=1098(LC 1)

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

TOP CHORD 2-3=-1629/234, 3-4=-1328/257, 4-5=-1633/231 **BOT CHORD** 2-8=-131/1328, 6-8=-132/1323, 5-6=-122/1333

- 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=15ft; 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 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 20-0-0 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) All plates are MT20 plates unless otherwise indicated
- 5) The Fabrication Tolerance at joint 4 = 4%, joint 3 = 12%
- 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) except (jt=lb) 2=133, 5=116
- 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.





Job Truss Truss Type Qty Ply SUMMIT/WOODSIDE RIDGE #29/MO 148255575 2955854 E3 HIP GIRDER Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:41 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-3dykYx_I4Y8gma459khUdCx5wdqrVW5ohsSUMxyVqx8 10-3-0 0-0-0 0-3-0 Scale = 1:37.2 6x8 || 5 22 21 6.00 12 5x8 🖊 4x8 ≥ 4x6 / 4x6 > 3 HUS26 1-0-0 13 12 10 11 23 24 3x6 || 7x8 = 7x8 || 7x8 = 2x4 || 8x12 = HUS26 HUS26 8x12 = HUS26 HUS26 HUS26 LUS26 10-3-0 10-0₋0 0-3-0 0-3-0 Plate Offsets (X V)-- [2:0-2-12 Edge] [8:0-2-12 Edge] [11:0-3-8 0-4-8] [12:0-5-8 Edge] [13:0-3-8 0-4-8] [14:0-4-4 0-1-8]

Tiate Choos	Tate Orisets (A, 1) [2:0.2.12, Edge], [0:0.2.12, Edge], [11:0.0.0, 0.4.4], [12:0.0.0, 0.4.4], [13:0.4.4], [14:0.4.4], [14:0.4.4]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.19	12-13	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.41	12-13	>575	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.31	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MS						Weight: 523 lb	FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

2x8 SP 2400F 2.0E TOP CHORD **BOT CHORD** 2x6 SPF 2100F 1.8E WEBS 2x4 SPF No.2 **OTHERS** 2x8 SP 2400F 2.0E

LBR SCAB 5-9 2x8 SP 2400F 2.0E both sides 1-5 2x8 SP 2400F 2.0E both sides

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8 Max Horz 1=-76(LC 30)

> Max Uplift 1=-651(LC 8), 9=-713(LC 9) Max Grav 1=5877(LC 1), 9=5572(LC 1)

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

5-6=-9042/1058, 6-7=-12670/1507, 7-8=-14941/1877, 8-9=-2482/338, 1-2=-2618/352, TOP CHORD

2-3=-15611/1777, 3-4=-12971/1482, 4-5=-9033/1042

2-14=-1723/14989, 13-14=-1723/14989, 12-13=-1346/11876, 11-12=-1308/11629, **BOT CHORD**

10-11=-1745/14352, 8-10=-1745/14352

WEBS 4-13=-367/3480, 6-11=-382/3133, 5-12=-712/6306, 6-12=-3737/578, 4-12=-4018/515,

3-14=-125/1205, 3-13=-3509/425, 7-10=-173/769, 7-11=-2982/479

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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) Attached 11-4-0 scab 5 to 9, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of MITRSLK-G006 spaced 9" o.c.except : starting at 5-9-14 from end at joint 5, nail 3 row(s) at 7" o.c. for 3-11-9.
- 4) Attached 11-4-0 scab 1 to 5, both face(s) 2x8 SP 2400F 2.0E with 2 row(s) of MITRSLK-G006 spaced 9" o.c.except : starting at 5-7-11 from end at joint 5, nail 3 row(s) at 4" o.c. for 4-1-11.
- 5) Scab(s) 5 to 9 to provide bearing enhancement at jt.9, a cluster of 16 (total in each face) evenly spaced 10d (0.131"x3") nails are required within 12" of jt.9. Bearing is assumed to be SP 2400F 2.0E.
- 6) Scab(s) 1 to 5 to provide bearing enhancement at jt.1, a cluster of 16 (total in each face) evenly spaced 10d (0.131"x3") nails are required within 12" of jt.1. Bearing is assumed to be SP 2400F 2.0E.
- 7) Unbalanced roof live loads have been considered for this design.
- 8) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Brace at Jt(s): 11

October 8,2021

Congripu DO Dur place 2

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	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	1400555575
2955854	E3	HIP GIRDER	1	2	Job Reference (optional)	148255575

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:41 2021 Page 2 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-3dykYx_I4Y8gma459khUdCx5wdqrVW5ohsSUMxyVqx8

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

- 10) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=651, 9=713.

 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 3-9-9 oc max. starting at 6-0-12 from the left end to 17-10-5 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 16-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1089 lb down and 121 lb up at 2-1-11, and 1078 lb down and 132 lb up at 4-0-12 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: 5-8=-90, 8-9=-112, 15-18=-20, 1-16=-112, 5-16=-90

Concentrated Loads (lb)

Vert: 13=-1080(B) 11=-1080(B) 12=-1080(B) 14=-1078 10=-718(B) 15=-1089 18=-967(B) 23=-1080(B) 24=-1080(B)

SUMMIT/WOODSIDE RIDGE #29/MO Job Truss Truss Type Qty 148255576 2955854 LG1 Lay-In Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:43 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-?04Uzd0?c9OO?uEUG9jyid1ajRjgzaW58AxbQqyVqx6

9-10-4 9-10-4

> Scale = 1:66.8 4x6 =

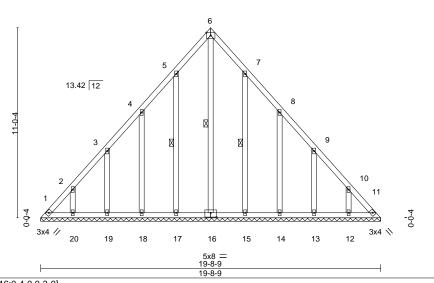


Plate Off	rsets (X,Y)	[6:Edge,0-1-14], [16:0-4-0,0-3-0]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a - n/a 999
BCLL	0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01 11 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 111 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 WEBS**

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

1 Row at midpt 6-16, 5-17, 7-15

REACTIONS. All bearings 19-8-9

(lb) -Max Horz 1=258(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-112(LC 10), 17=-122(LC 12), 18=-127(LC 12),

19=-124(LC 12), 20=-122(LC 12), 15=-120(LC 13), 14=-128(LC 13), 13=-124(LC 13), 12=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 11, 16, 18, 19, 20, 14, 13, 12 except 1=265(LC 12), 17=254(LC

19), 15=252(LC 20)

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

TOP CHORD 1-2=-369/232, 2-3=-256/190, 10-11=-333/231

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-4, Exterior(2R) 9-10-4 to 12-10-4, Interior(1) 12-10-4 to 19-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 11 except (jt=lb) 1=112, 17=122, 18=127, 19=124, 20=122, 15=120, 14=128, 13=124, 12=122.
- 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.



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255577 2955854 LG2 Lay-In Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-yOCEOJ1G7me6FCNtOalQn26wPFORRU4OcUQiVjyVqx4

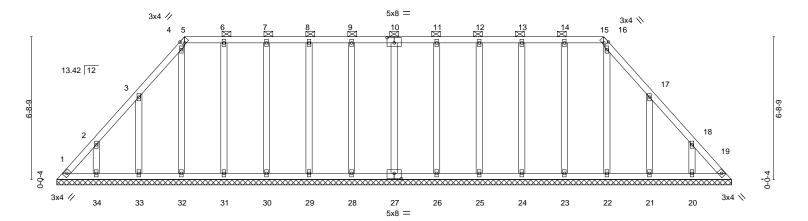
19-8-6

Scale = 1:54.1

31-8-9

6-0-1

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



31-8-9 Plate Offsets (X,Y)--[5:0-1-6,Edge], [10:0-4-0,0-3-0], [15:0-1-6,Edge], [27:0-4-0,0-3-0] SPACING-**PLATES** LOADING (psf) DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 197/144 n/a n/a MT20 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 0.13 Horz(CT) 0.01 19 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 167 lb FT = 20%Matrix-S

31-8-9

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD

2x4 SPF No.2 **BOT CHORD** 2-0-0 oc purlins (6-0-0 max.): 5-15. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-8-9 (lb) -Max Horz 1=-156(LC 8)

6-0-1

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except

33=-136(LC 12), 34=-119(LC 12), 21=-138(LC 13), 20=-119(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 27, 28, 29, 30, 31, 32, 34, 26, 25, 24, 23, 22, 20

except 33=253(LC 19), 21=255(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-0-1, Exterior(2R) 6-0-1 to 10-3-0, Interior(1) 10-3-0 to 25-8-7, Exterior(2R) 25-8-7 to 29-10-4, Interior(1) 29-10-4 to 31-4-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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, 19, 27, 28, 29, 30, 31, 32, 26, 25, 24, 23 except (jt=lb) 33=136, 34=119, 21=138, 20=119.
- 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.





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255578 2955854 LG3 Lay-In Gable

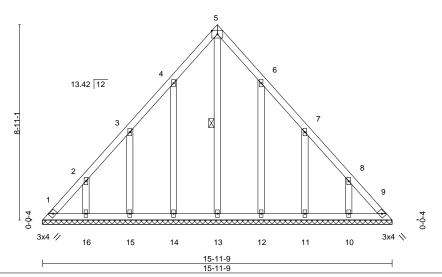
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:46 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Qbmcbf2uu4mzsMy3yHGfKFf51ekUAx7Xq89F19yVqx3

7-11-12 7-11-12

> Scale = 1:52.6 4x6 =



_Plate Off	sets (X,Y)	[5:Edge,0-1-14]										
LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.07	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	0.07	Vert(CT)	n/a	-	n/a	999	IVITZU	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TPI	YES 2014	WB Matri	0.15 x-S	Horz(CT)	0.00	9	n/a	n/a	Weight: 80 lb	FT = 20%
											11.0.9 22	,-

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Row at midpt 5-13

REACTIONS. All bearings 15-11-9.

Max Horz 1=207(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-126(LC 12), 15=-126(LC 12), 16=-126(LC 12),

12=-124(LC 13), 11=-126(LC 13), 10=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=255(LC 19), 12=253(LC 20)

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

TOP CHORD 1-2=-282/185, 8-9=-253/179

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-11-12, Exterior(2R) 7-11-12 to 10-11-12, Interior(1) 10-11-12 to 15-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 9 except (jt=lb) 14=126, 15=126, 16=126, 12=124, 11=126, 10=125.
- 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 #29/MO 148255579 2955854 LG4 Lay-In Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:47 2021 Page 1

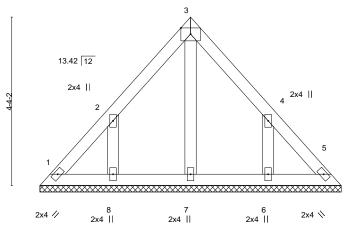
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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3-10-10 3-10-10

> Scale = 1:29.7 4x6 =



LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.03	DEFL. in (loc) l/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 0.03 Matrix-P	Horz(CT) 0.00 5 n/a n/a	Weight: 29 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 7-9-4.

(lb) -Max Horz 1=-96(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-140(LC 12), 6=-140(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=266(LC 19), 6=266(LC 20)

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

2-8=-254/156, 4-6=-254/156 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-10, Exterior(2R) 3-10-10 to 6-10-10, Interior(1) 6-10-10 to 7-5-5 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
- 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=140 6=140
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255580 2955854 M1 Jack-Open 8 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:48 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

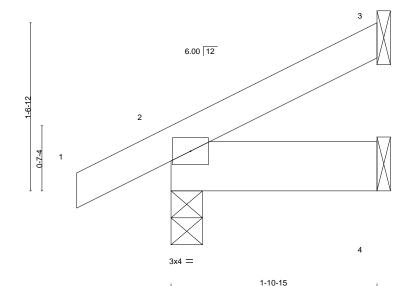
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Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

1-10-15 0-10-8 1-10-15

Scale = 1:10.7



					1-10-15								
LOADING TCLL TCDL	G (psf) 25.0 20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.07 0.02		DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 7 7	I/defI >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TPI2	YES 2014	WB Matrix	0.00 c-MP		Horz(CT)	0.00	3	n/a	n/a	Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x6 SPF No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=49(LC 12)

Max Uplift 3=-22(LC 12), 2=-24(LC 12), 4=-2(LC 12) Max Grav 3=58(LC 1), 2=201(LC 1), 4=40(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=15ft; 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 100 lb uplift at joint(s) 3, 2, 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 #29/MO 148255581 2955854 M2 Jack-Open 8 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:49 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-qARIEg4mB?9YjphedPqMyuHaJslwNK9_W6OveUyVqx0 3-10-15 3-10-15 0-10-8 Scale = 1:15.7 6.00 12 3-10-15 3-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) 0.01 >999 240 197/144 **TCLL** TC 0.20 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.01 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a

LUMBER-

BCDL

2x4 SPF No.2 TOP CHORD 2x6 SPF No.2 **BOT CHORD**

10.0

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.

Weight: 13 lb

FT = 20%

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=84(LC 12)

Max Uplift 3=-48(LC 12), 2=-29(LC 12), 4=-2(LC 12) Max Grav 3=131(LC 1), 2=299(LC 1), 4=88(LC 3)

Code IRC2018/TPI2014

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=15ft; 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 3-10-3 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-MP

- 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 100 lb uplift at joint(s) 3, 2, 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.

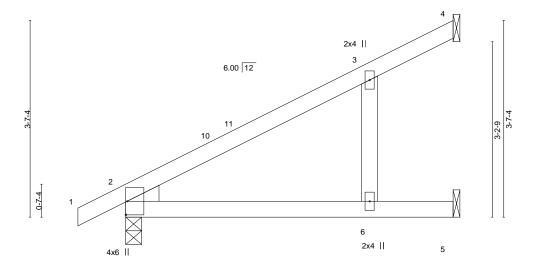






Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255582 2955854 М3 Jack-Open 16 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:49 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-qARIEg4mB?9YjphedPqMyuHWasenNKr_W6OveUyVqx0 6-0-0 0-10-8 4-5-10 1-6-6

Scale = 1:21.1



	6-0-0												
LOADING (psf		SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.50	DEFL. Vert(LL)	in 0.10	(loc) 6-9	l/defl >731	L/d 240	PLATES MT20	GRIP 197/144	
TCDL 20.0		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.19	6-9	>731	180	IVI I 20	197/144	
BCLL 0.0 BCDL 10.0		Rep Stress Incr Code IRC2018/TP	YES PI2014	WB Matri	0.02 x-AS	Horz(CT)	0.03	2	n/a	n/a	Weight: 19 lb	FT = 20%	

6-0-0

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 **WEBS** 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=123(LC 12)

Max Uplift 4=-42(LC 12), 2=-34(LC 12), 5=-38(LC 12) Max Grav 4=163(LC 1), 2=411(LC 1), 5=158(LC 1)

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=15ft; 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 5-11-4 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 100 lb uplift at joint(s) 4, 2, 5.
- 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	Ply	SUMMIT/WOODSIDE RIDGE #29/MO	
					148255583	;
2955854	M5	MONOPITCH SUPPORTED	2	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:50 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-IM?7R05OyJHPLzGqB7LbU5poMG5X6nP7Im7SAwyVqx?

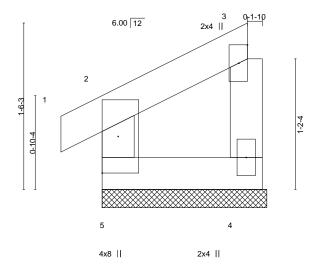
Structural wood sheathing directly applied or 1-5-8 oc purlins,

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

except end verticals.

0-4-8 1-5-8

Scale = 1:10.5



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 1 n/r 120	PLATES GRIP MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 4 n/a n/a	Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=1-6-0, 4=1-6-0 (size)

Max Horz 5=46(LC 11) Max Uplift 5=-15(LC 12), 4=-23(LC 9) Max Grav 5=121(LC 1), 4=50(LC 19)

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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) 5, 4.
- 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.



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255584 2955854 M6 Jack-Open 9 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:51 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-mYZVfM61jcPFz7r0kqsq1JMpzfM9rE4H_Pt0iMyVqx_ 0-10-8 4-3-8 1-8-8 Scale = 1:21.1 2x4 || 3 6.00 12 9-0-5x8 = 0-7-4 3.00 12 4x6 = 6-0-0 4-3-8 1-8-8 Plate Offsets (X,Y)--[2:0-1-8,0-2-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.70 Vert(LL) 0.10 6 >711 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.19 6 >375 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 20 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

WEBS

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

2-6: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=123(LC 12)

Max Uplift 4=-86(LC 12), 2=-34(LC 12)

Max Grav 4=304(LC 1), 2=411(LC 1), 5=33(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=15ft; 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 5-11-4 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) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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) 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 #29/MO 148255585 2 2955854 M7 Jack-Open Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-FI7usi7fUwX6bHQDIYN3aWv6j3lVahvQD3dZDpyVqwz

Structural wood sheathing directly applied or 3-10-15 oc purlins.

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

3-10-15 3-10-15

Scale = 1:15.7

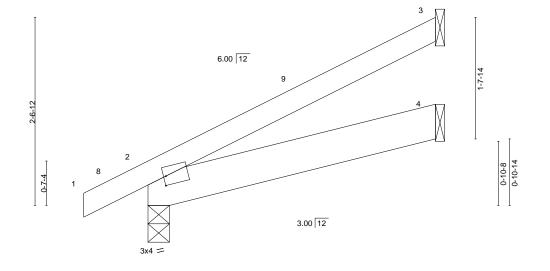


Plate Off	Plate Offsets (X,Y) [2:0-0-6,0-1-8]										
LOADIN	\	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP		
TCLL	25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) 0	0.01 4-7	>999	240	MT20	197/144		
TCDL	20.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0	0.01 4-7	>999	180				
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0	0.00 2	n/a	n/a				
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 14 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2

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

Max Horz 2=84(LC 12) Max Uplift 3=-47(LC 12), 2=-27(LC 12), 4=-5(LC 12) Max Grav 3=128(LC 1), 2=299(LC 1), 4=89(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=15ft; 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 3-10-3 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-10-8

- 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 capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255586 2955854 M8 Jack-Open 2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

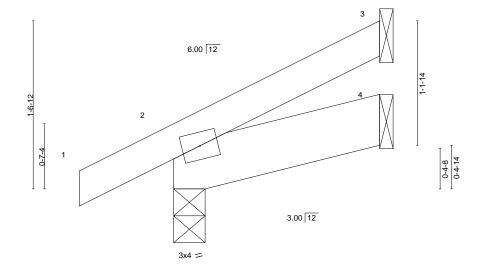
Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:52 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-Fl7usi7fUwX6bHQDIYN3aWv7b3n9ahvQD3dZDpyVqwz

Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

<u>1-10-15</u> 0-10-8 1-10-15

Scale = 1:10.7



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)	-0.00	7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.02	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/TF	PI2014	Matri	x-MP	, ,					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=49(LC 12)

Max Uplift 3=-21(LC 12), 2=-22(LC 12), 4=-4(LC 12) Max Grav 3=55(LC 1), 2=201(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=15ft; 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) 2 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 100 lb uplift at joint(s) 3, 2, 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.



October 8,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255587 2955854 PB1 Piggyback Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:53 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-jxhG328HFEfzCQ?PsFvl6kRIUT7qJ8mZRjM7mFyVqwy 3-4-12 3-4-12 Scale = 1:13.1 4x6 = 3 6.00 12 2 0-3-15 6

6-9-8									
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.12 BC 0.06 WB 0.02 Matrix-P	DEFL. in (loc) Vert(LL) 0.00 5 Vert(CT) 0.01 5 Horz(CT) 0.00 4	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES GRIP MT20 197/144 Weight: 15 lb FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

2x4 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

2x4 ||

LUMBER-

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

REACTIONS.

6=4-11-6, 4=4-11-6, 2=4-11-6 (size)

Max Horz 2=-24(LC 17)

Max Uplift 6=-5(LC 12), 4=-42(LC 13), 2=-37(LC 12) Max Grav 6=253(LC 1), 4=197(LC 1), 2=197(LC 1)

2x4 =

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

- 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=15ft; 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) 6, 4, 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255588 2955854 PB2 Piggyback Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:54 2021 Page 1 ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-B7FeHO8v0XnqqaZbQyQXfx_TEtT32b0jgN6gIhyVqwx 3-4-12 3-4-12 Scale = 1:13.4 4x6 = 6.00 12 2 6 2x4 || 2x4 = 2x4 = 6-9-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 25.0 Plate Grip DOL TC Vert(LL) 0.00 120 197/144 **TCLL** 1.15 0.12 5 n/r MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) 0.01 5 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

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

10.0

REACTIONS.

6=4-11-6, 4=4-11-6, 2=4-11-6 (size)

Max Horz 2=24(LC 16)

Max Uplift 6=-5(LC 12), 4=-42(LC 13), 2=-37(LC 12) Max Grav 6=253(LC 1), 4=197(LC 1), 2=197(LC 1)

Code IRC2018/TPI2014

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=15ft; 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

Matrix-P

- 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) 6, 4, 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 15 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

FT = 20%

October 8,2021

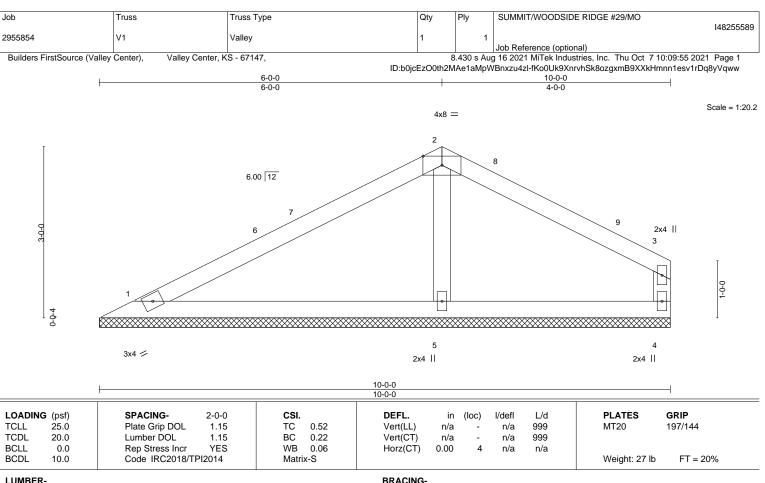


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

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

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

REACTIONS. (size) 1=10-0-0, 4=10-0-0, 5=10-0-0

Max Horz 1=51(LC 9)

Max Uplift 1=-37(LC 12), 4=-59(LC 13), 5=-45(LC 12) Max Grav 1=289(LC 1), 4=230(LC 26), 5=523(LC 1)

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

2-5=-383/164 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-10-4 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) 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, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

October 8,2021

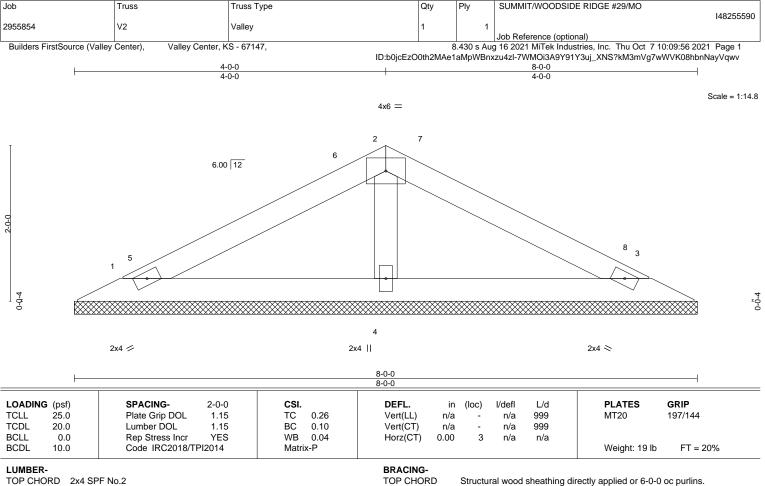


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





BOT CHORD

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

REACTIONS.

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

OTHERS 2x4 SPF No.2

> 1=8-0-0, 3=8-0-0, 4=8-0-0 (size) Max Horz 1=27(LC 12)

Max Uplift 1=-32(LC 12), 3=-37(LC 13), 4=-11(LC 12) Max Grav 1=191(LC 1), 3=191(LC 1), 4=359(LC 1)

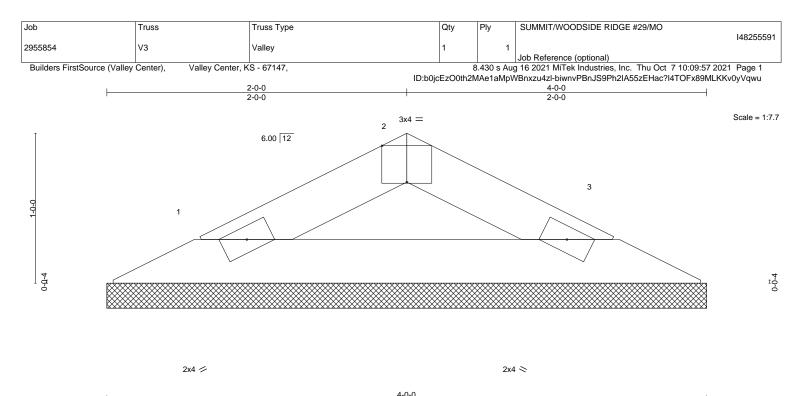
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-274/135 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-4-7 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
- 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.







						7-0-0							
Plate Offsets (X,Y) [2:0-2-0,Edge]													
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDI	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 8 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-0-0, 3=4-0-0 (size) Max Horz 1=11(LC 16)

Max Uplift 1=-15(LC 12), 3=-15(LC 13) Max Grav 1=151(LC 1), 3=151(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=15ft; 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.



Structural wood sheathing directly applied or 4-0-0 oc purlins.

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





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255592 2955854 V4 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:57 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:b0jcEzO0th2MAe1aMpWBnxzu4zl-biwnvPBnJS9Ph2IA55zEHacwL4SMFx89MLKKv0yVqwu

Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.

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

Scale = 1:17.6

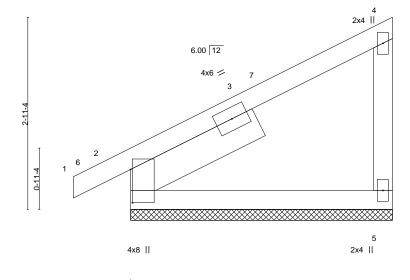


Plate Off	Plate Offsets (X,Y) [2:0-6-1,0-0-5]									
LOADIN	VI /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP						
TCLL	25.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.00 1 n/r 120 MT20 197/144						
TCDL	20.0	Lumber DOL 1.15	BC 0.15	Vert(CT) 0.01 1 n/r 120						
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 5 n/a n/a						
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 18 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 2x6 SPF No.2 2-2-9

REACTIONS. (size) 5=4-0-0, 2=4-0-0

Max Horz 2=92(LC 11) Max Uplift 5=-45(LC 12), 2=-34(LC 12)

Max Grav 5=203(LC 1), 2=300(LC 1)

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=15ft; 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) 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) 5, 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 #29/MO 148255593 2955854 V5 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:58 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-3vU97IBQ3mHGJCtMfoUTpn97NUpL_OOIb?4uRSyVqwt 4-0-0 4-0-0 Scale = 1:12.8 2x4 || 6.00 12 0-0-4

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.24	DEFL. Vert(LL)	in (loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a -	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 1=4-0-0, 3=4-0-0 (size) Max Horz 1=60(LC 11)

Max Uplift 1=-19(LC 12), 3=-34(LC 12) Max Grav 1=177(LC 1), 3=177(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=15ft; 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

2x4 /

- 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, 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.



October 8,2021





3

Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

2x4 ||

except end verticals.

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255594 2955854 V₆ Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:09:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-X52XK5C2q4P7wLSZCW?iM?hHGu9ejrdSqfpRzvyVqws 3-11-4 Scale = 1:12.6 2x4 II 6.00 12

> 2x4 / 2x4 ||

> > TOP CHORD

BOT CHORD

3

except end verticals.

Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

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** 0.23 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 10 lb FT = 20%

LUMBER-BRACING-

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

REACTIONS. 1=3-11-4, 3=3-11-4 (size) Max Horz 1=59(LC 9)

Max Uplift 1=-18(LC 12), 3=-33(LC 12) Max Grav 1=174(LC 1), 3=174(LC 1)

0-0-4

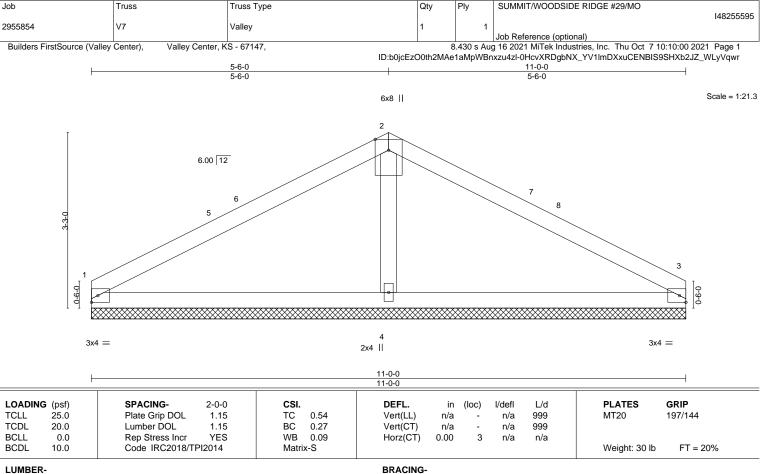
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; 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) 1, 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.



October 8,2021





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SPF No.2

> 1=11-0-0, 3=11-0-0, 4=11-0-0 (size)

Max Horz 1=47(LC 16)

Max Uplift 1=-43(LC 12), 3=-52(LC 13), 4=-37(LC 12) Max Grav 1=284(LC 25), 3=284(LC 26), 4=645(LC 1)

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

2-4=-469/178 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=15ft; 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 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-0-0 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) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #29/MO 148255596 Valley 2955854 V8 Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 7 10:10:01 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:b0jcEzO0th2MAe1aMpWBnxzu4zI-UTAHInEIMhfrAfcxKx2ARQmbnhqcBISIHzIY2nyVqwq 4-6-0 Scale = 1:16.5 4x6 = 2 6.00 12 2x4 / 2x4 || 2x4 < 9-0-0 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** 0.36 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.13 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: 22 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2

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

Max Horz 1=31(LC 16)

Max Uplift 1=-37(LC 12), 3=-43(LC 13), 4=-13(LC 12) Max Grav 1=220(LC 1), 3=220(LC 1), 4=412(LC 1)

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

2-4=-315/143 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-6-0, Exterior(2R) 4-6-0 to 7-6-0, Interior(1) 7-6-0 to 8-4-7 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
- 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.

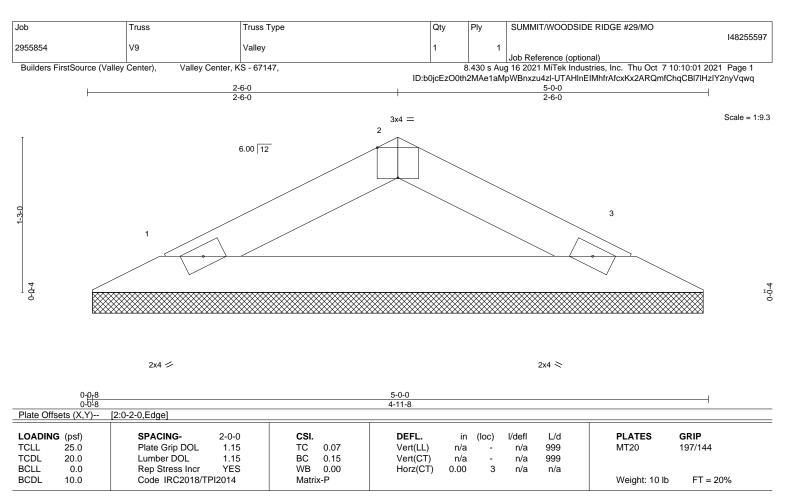


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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







LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS.

1=4-11-0, 3=4-11-0 (size) Max Horz 1=15(LC 16)

Max Uplift 1=-21(LC 12), 3=-21(LC 13) Max Grav 1=206(LC 1), 3=206(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=15ft; 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.





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 sand 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

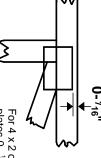


Symbols

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



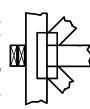
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

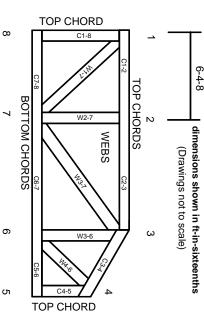
Min size shown is for crushing only

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.
- 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.