

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

Re: Jobs

SUMMIT/WOODSIDE RIDGE #140/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: I44815375 thru I44815462

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

Missouri COA: Engineering 001193



February 15,2021

Sevier, Scott

,Engineer

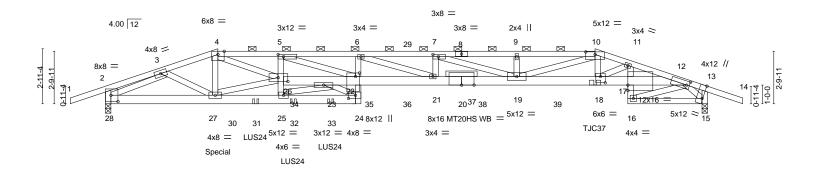
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 #140/MO 144815375 **JOBS** Α1 Hip Girder 2 Job Reference (optional)

Builders FirstSource (Valley Center) Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:49:57 2021 Page 1

ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-AfKkZzcxpWA?AfaDV5_n_jyewVOFG?AJqcNqyyzkuCe 21-11-5 4-3-15 32-1-8 4-3-0 34-0-0 1-10-8 27-10-8 1-9-0

Scale = 1:61.5



				11-5-1	13-3-8						
	3-1-12	6-0-0	9-6-0	9-7 ₇ 12 1	12-0-4 13-7-9	17-7-7	1 21-11-5	26-1-8	27-10-8	32-1-8	- 1
-	3-1-12	2-10-4	3-6-0	0-1-12 1-9-5	0-7-3 1-3-4	3-11-13	4-3-15	4-2-3	1-9-0	4-3-0	

[2:0-1-12,0-0-9], [2:0-4-8,0-4-0], [5:0-3-8,0-1-8], [7:0-3-8,0-1-8], [10:0-6-0,0-1-11], [12:0-1-12,0-2-8], [13:0-8-7,Edge], [13:0-0-0,0-1-14], [17:0-0-0,0-3-8], Plate Offsets (X,Y)--[18:0-3-0,0-4-0], [22:0-2-4,0-2-8], [24:0-4-8,0-2-0], [26:0-6-4,0-2-8]

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.87	DEFL. in (loc) I/defl L/d Vert(LL) -0.82 21-22 >468 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.87 WB 0.73 Matrix-MS	Vert(CT) -1.44 21-22 >265 180 Horz(CT) 0.40 15 n/a n/a	MT20HS 148/108 Weight: 348 lb FT = 20%

LUMBER-BRACING-

> 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, 4-8: 2x4 SP 2400F 2.0E, 8-10: 2x4 SPF 1650F 1.5E except

2x4 SPF No.2 *Except* 2-0-0 oc purlins (2-11-1 max.): 4-10.

24-28: 2x6 SPF No.2, 20-26,12-20: 2x6 SPF 2100F 1.8E **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 **WEBS**

OTHERS 2x4 SPF No 2

TOP CHORD

BOT CHORD

BOT CHORD

REACTIONS. 28=0-3-8, 15=0-3-8 (size) Max Horz 28=46(LC 4)

Max Uplift 28=-697(LC 4), 15=-687(LC 5)

Max Grav 28=3049(LC 1), 15=3007(LC 1)

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

3-4=-6417/1336, 4-5=-10443/2140, 5-6=-16152/3255, 6-7=-17099/3416, 7-9=-14419/2890, TOP CHORD 9-10=-14422/2892, 10-11=-10881/2211, 11-12=-10105/2049

27-28=-1030/4979, 25-27=-1238/6143, 24-25=-597/2928, 22-24=-360/1879,

23-26=-886/4546, 22-23=-1989/9987, 21-22=-3190/16152, 19-21=-3351/17099, 18-19=-1995/10305, 17-18=-1861/9541, 12-17=-1775/9045, 16-17=-275/1531,

15-16=-651/3371

WEBS 3-27=-237/1392, 7-21=-109/579, 9-19=-453/158, 10-18=-276/1467, 11-18=-217/1157,

2-28=-313/184, 11-17=-340/88, 13-15=-418/223, 12-15=-4237/818, 12-16=-3201/633, 3-28=-5657/1118, 10-19=-869/4440, 4-26=-929/4709, 7-19=-2885/573, 6-22=-569/173, 6-21=-323/1057, 5-22=-1158/5932, 25-26=-655/186, 5-26=-2430/535, 23-25=-654/3283,

23-24=-2866/594

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 0-4-0 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, Except member 15-12 2x4 - 1 row at 0-7-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



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

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
						144815375
JOBS	A1	Hip Girder	1	2		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:49:58 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-eru7mJdZaqlsoo9Q3pV0WxUpgvjU?SQT2G7NUOzkuCd

- 8) Bearing at joint(s) 28, 15 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 697 lb uplift at joint 28 and 687 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-0-4 from the left end to 12-0-4 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 26-1-8 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 521 lb down and 161 lb up at 6-0-0, 202 lb down and 44 lb up at 14-0-4, 202 lb down and 44 lb up at 16-0-8, 202 lb down and 44 lb up at 16-0-8, 202 lb down and 44 lb up at 20-0-12, and 202 lb down and 44 lb up at 22-0-12, and 202 lb down and 44 lb up at 24-0-12 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: 1-4=-70, 4-10=-70, 10-14=-70, 24-28=-20, 17-22=-20, 15-16=-20

Concentrated Loads (lb)

Vert: 19=-202 18=-497(B=-295) 30=-521(B) 31=-226(B) 32=-226(B) 33=-226(B) 35=-202 36=-202 37=-202 38=-202 39=-202

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815376 **JOBS** A2 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:05 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-xCpmEijyx_At8tBmzn7flPH_Oj958b0VfsJFEUzkuCW

18-8-8

5-5-0

Scale = 1:62.5

1-10-8

29-10-4 32-1-8 34-0-0

2-3-4

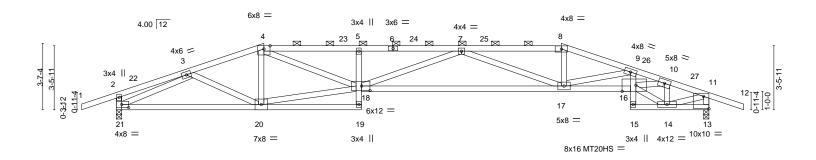
1-11-12

27-10-8

3-9-0

Structural wood sheathing directly applied, except end verticals, and

5-5-0



	4-0-0	8-0-0	13-3-8	18-8-8	24-1-8	27-10-8	29-10-4 32-	
	4-0-0	4-0-0	5-3-8	5-5-0	5-5-0	3-9-0	1-11-12 2-3	3-4
Plate Offsets (X,Y)	[13:0-1-12,0-0-0],	[13:Edge,0-8-0], [1	6:0-9-0,Edge], [18:0-5-8	,0-3-0], [21:0-4-8,0-2-0]				
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0	Plate Grip Lumber DO	DL 1.15	TC 0.90 BC 0.68	Vert(CT) -	0.49 17-18 >778 1.07 17-18 >357	240 180	MT20 MT20HS	197/144 148/108
BCLL 0.0 BCDL 10.0	Rep Stress Code IRC	s Incr YES 2018/TPI2014	WB 0.86 Matrix-AS	Horz(CT)	0.32 13 n/a	n/a	Weight: 142 lb	FT = 20%

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 4-8.

Rigid ceiling directly applied.

LUMBER-BRACING-

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

16-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

-1-10-8 1-10-8

4-0-0

3-6-5

5-3-8

REACTIONS. (size) 13=0-3-8, 21=0-3-8

Max Horz 21=-33(LC 17)

Max Uplift 13=-398(LC 9), 21=-398(LC 8) Max Grav 13=1574(LC 1), 21=1574(LC 1)

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

2-3=-333/53, 3-4=-2775/670, 4-5=-4931/1150, 5-7=-5083/1154, 7-8=-3879/887, TOP CHORD

8-9=-4054/900, 9-10=-5090/1179, 10-11=-2032/484, 2-21=-399/180, 11-13=-1499/449

BOT CHORD 20-21=-552/2351, 19-20=-106/280, 5-18=-427/175, 17-18=-1101/5010, 16-17=-1125/5061,

9-16=-120/600, 14-15=-85/409

WEBS 4-20=-460/156, 18-20=-444/2425, 4-18=-532/2468, 8-17=-131/896, 9-17=-1253/409,

14-16=-359/1724, 10-16=-645/2944, 10-14=-1569/364, 11-14=-438/1913, 3-21=-2389/652,

3-20=-34/441, 7-18=-108/304, 7-17=-1346/419

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 34-0-0 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) 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) 21 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 398 lb uplift at joint 13 and 398 lb uplift at joint 21.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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 SUMMIT/WOODSIDE RIDGE #140/MO 144815377 **JOBS** АЗ Hip 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-PON8S2jbiHlkl1myXUfurdpDo7Rkt8CeuW3omwzkuCV -1-10-8 1-10-8 22-1-8 27-5-12 33-1-8 34-0-0 0-10-8

6-0-12

5-4-4

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-7-15 max.): 4-6.

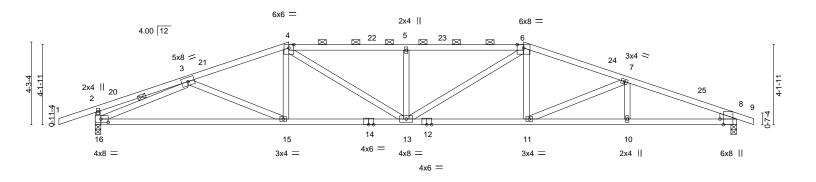
Rigid ceiling directly applied.

1 Row at midpt

6-0-12

Scale = 1:59.5

5-7-12



		10-0-0	16-0-12	22-1-8	27-5-12	33-1-8
	I	10-0-0	6-0-12	6-0-12	5-4-4	5-7-12
Plate Offs	sets (X,Y)	[8:0-1-14,0-6-14], [8:0-3-8,Edge], [16:0-4	1-8,0-2-0]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) 1/c	defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.33 15-16 >9	999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.70 15-16 >5	67 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.14 8	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	• •		Weight: 130 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2

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

12-14: 2x4 SPF No.2

4-9-8

4-10-4

2x4 SPF No.2 WEBS WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 8=0-3-8, 16=0-3-8

Max Horz 16=70(LC 16)

Max Uplift 8=-351(LC 9), 16=-398(LC 8) Max Grav 8=1542(LC 1), 16=1629(LC 1)

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

TOP CHORD 3-4=-2864/702, 4-5=-3217/845, 5-6=-3217/846, 6-7=-3021/757, 7-8=-3362/809

15-16=-632/2566, 13-15=-538/2671, 11-13=-589/2829, 10-11=-705/3119, 8-10=-705/3119 **BOT CHORD** WEBS

3-15=0/348, 4-15=0/298, 4-13=-219/786, 5-13=-515/202, 6-13=-165/640, 6-11=-10/346,

7-11=-332/148, 2-16=-314/232, 3-16=-2847/704

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -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 22-1-8, Exterior(2R) 22-1-8 to 26-4-7, Interior(1) 26-4-7 to 34-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 8 and 398 lb uplift at ioint 16.
- 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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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 SUMMIT/WOODSIDE RIDGE #140/MO 144815378 Jobs Α4 Hip Job Reference (optional)

16-0-12

4-0-12

8.240 s Apr 4 2020 MiTek Industries, Inc. Mon Feb 15 13:58:54 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-iJsGbaTSZh0Az3TH6_dtVdneS9KA331F7l0EffzktC? 20-1-8 20-3-0 0-1-8 25-2-12 30-4-0 33-1-8 34-0-Q 4-0-12 4-11-12 2-9-8

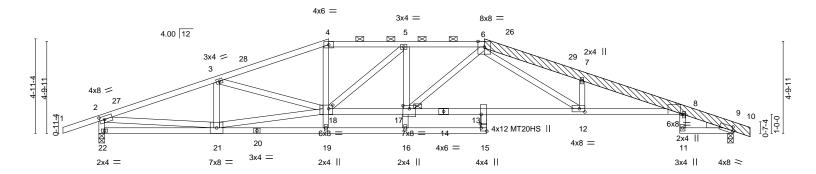
Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-11-12 max.): 4-6.

Rigid ceiling directly applied.

1 Brace at Jt(s): 17

Scale = 1:60.2



	<u> </u>	6-1-12 6-1-12	12-0-0 5-10-4		16-0-12 4-0-12	4-0-1		25-2-12 4-11-12	-	30-4-0 5-1-4	33-1-8 2-9-8
Plate Offse	ets (X,Y)	[2:0-3-0,0-2-0], [8:0-1-4,							0-2-0], [18:		
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	0.77	Vert(LL)	-0.49 12-13	>808	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.96 12-13	>411	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.33	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matr	x-AS					Weight: 185 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-10: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

8-14: 2x4 SP 2400F 2.0E **WEBS** 2x4 SPF No.2

OTHERS 2x6 SPF 2100F 1.8E

LBR SCAB 6-10 2x6 SPF 2100F 1.8E one side

WEDGE

Right: 2x4 SPF No.2

-1-10-8

1-10-8

6-1-12

6-1-12

12-0-0

5-10-4

REACTIONS. (lb/size) 9=1547/0-3-8, 22=1629/0-3-8

Max Horz 22=-85(LC 13)

Max Uplift 9=-339(LC 9), 22=-387(LC 8)

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

TOP CHORD 2-27=-2974/701, 3-27=-2911/720, 3-28=-3235/785, 4-28=-3167/805, 4-5=-3039/802,

5-6=-3372/854, 6-26=-5270/1319, 26-29=-5296/1310, 7-29=-5360/1301, 7-8=-5197/1201,

8-9=-528/160

BOT CHORD 20-21=-144/541, 19-20=-144/541, 16-19=-132/448, 15-16=-136/444, 17-18=-531/2924,

14-17=-541/2797, 13-14=-541/2797, 12-13=-674/3240, 8-12=-1092/5035

3-21=-566/210, 3-18=-44/453, 4-18=-102/677, 6-12=-508/2178, 7-12=-906/315, WEBS

18-21=-470/2253, 5-18=-617/127, 6-17=-44/393, 2-21=-619/2780, 2-22=-1577/482

NOTES-

- 1) Attached 14-9-5 scab 6 to 10, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 3-5-11 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-10-14.
- 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=25ft; 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 12-0-0, Exterior(2R) 12-0-0 to 16-0-12, Interior(1) 16-0-12 to 20-1-8, Exterior(2R) 20-1-8 to 24-4-7, Interior(1) 24-4-7 to 34-0-0 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
- 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) 22 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 339 lb uplift at joint 9 and 387 lb uplift at joint 22.
- 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



February 15,2021

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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO			
Jobs	A4	Hip	1	1	144815378			
		"			Job Reference (optional)			
8.240 s Apr 4 2020 MiTek Industries, Inc. Mon Feb 15 13:58:55 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-AVQeowT4K?81aD2Tgi962rKpByfPoWHOMPInB6zktC_								

NOTES-

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 #140/MO 144815379 **JOBS** A5 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:09 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-pz2H44mT_CglcVVXCcCbTFRhELUj4OC4aUHSNFzkuCS

20-0-0

2-1-8

25-0-8

5-0-8

30-1-0

5-0-8

17-10-8

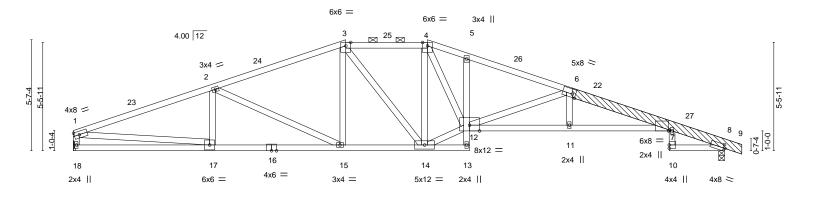
4-1-8

6-8-12

Scale = 1:58.2

32-10-8

2-9-8



1	ı	7-0-4	13-	.9-0	17-10-8	3 20	-0-0 _I	2	5-0-8	30-	1-0	32-10-8 ₁	
		7-0-4	6-8	I-12	4-1-8	2-	1-8	5	5-0-8	5-0	1-8	2-9-8	
Plate Offset	ts (X,Y)	[6:0-2-0,Edge], [7:0-0-5	,Edge], [8:0-0-12	2,0-2-4]									
LOADING ((psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.8	5	DEFL. Vert(LL)	in -0.49	(loc) 7-11	I/defl L/c >804 240		PLATES MT20	GRIP 197/144	
	10.0	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.9 WB 0.9	0	Vert(CT) Horz(CT)	-0.88 0.35	7-11 8	>444 180 n/a n/a)	20	.0.,	
BCDL	10.0	Code IRC2018/	ΓPI2014	Matrix-AS							Weight: 163	lb FT = 20%	6

LUMBER-**BRACING-**

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

6-9: 2x6 SPF 2100F 1.8E 2-0-0 oc purlins (3-8-9 max.): 3-4. **BOT CHORD** 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied.

7-12: 2x4 SP 2400F 2.0E WEBS 2x4 SPF No.2 2x6 SPF 2100F 1.8E **OTHERS**

LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side

7-0-4

Max Uplift 18=-284(LC 8), 8=-329(LC 9)

Max Grav 18=1472(LC 1), 8=1535(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-2936/722, 2-3=-2473/673, 3-4=-2295/664, 4-5=-3281/872, 5-6=-3417/851,

6-7=-4926/1135, 7-8=-587/172

BOT CHORD 15-17=-603/2742, 14-15=-457/2266, 11-12=-1028/4812, 7-11=-1031/4801 **WEBS** 2-15=-583/210, 3-15=-44/358, 4-14=-1003/237, 12-14=-439/2362, 4-12=-438/1904,

6-12=-1732/407, 1-18=-1413/364, 1-17=-639/2759

NOTES-

REACTIONS.

- 1) Attached 9-2-2 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-5 from end at joint 6, nail 2 row(s) at 4" o.c. for 2-0-0.
- 2) Unbalanced roof live loads have been considered for this design.

(size) 18=Mechanical, 8=0-3-8 Max Horz 18=-112(LC 13)

- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-9-0, Exterior(2E) 13-9-0 to 17-10-8, Exterior(2R) 17-10-8 to 22-1-7, Interior(1) 22-1-7 to 33-9-0 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
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 18 and 329 lb uplift at joint 8.
- 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.



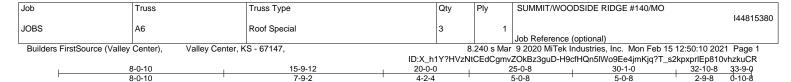
February 15,2021



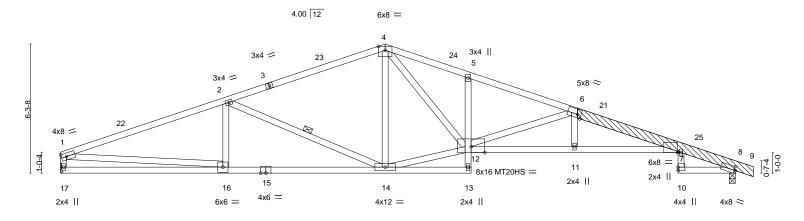
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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





Scale = 1:56.1



	8-0-10	I	15-9-12	20-0-0	25-0-8	30-1-0	32-10-8
	8-0-10	l	7-9-2	4-2-4	5-0-8	5-0-8	2-9-8
Plate Offsets (X,Y)	[6:0-2-0,Edge], [7:0-0-5,Edge]	lge], [8:0-0-12	2,0-2-4]				
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 0.84	Vert(LL) -0.4	9 7-11 >803 240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT) -0.8	9 7-11 >443 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.90	Horz(CT) 0.3	4 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI	2014	Matrix-AS			Weight: 158 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

2-14

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x4 SPF 1650F 1.5E, 6-9: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 7-12: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

2x6 SPF 2100F 1.8E **OTHERS**

LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side

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

> Max Horz 17=-125(LC 13) Max Uplift 17=-269(LC 8), 8=-316(LC 9) Max Grav 17=1472(LC 1), 8=1535(LC 1)

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

TOP CHORD 1-2=-2958/660, 2-4=-2254/568, 4-5=-3339/828, 5-6=-3419/778, 6-7=-4923/1048,

7-8=-587/163

BOT CHORD 14-16=-530/2757, 5-12=-299/151, 11-12=-942/4809, 7-11=-945/4798

WEBS 2-14=-858/277, 12-14=-290/1926, 4-12=-388/1731, 6-12=-1725/382, 1-17=-1406/352,

1-16=-568/2770

NOTES-

- 1) Attached 9-2-2 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-5 from end at joint 6, nail 2 row(s) at 4" o.c. for 2-0-0.
- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-9-12, Exterior(2R) 15-9-12 to 18-9-12, Interior(1) 18-9-12 to 33-9-0 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
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 17 and 316 lb uplift at joint 8.
- 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.



February 15,2021



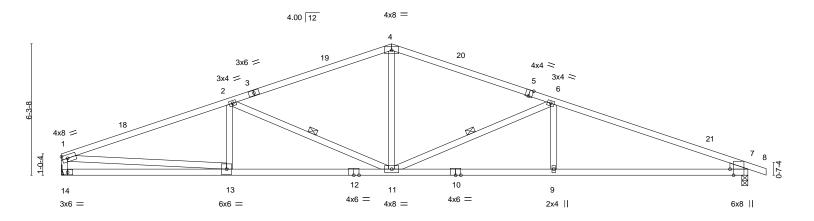
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 SUMMIT/WOODSIDE RIDGE #140/MO 144815381 **JOBS** A7 Common 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:11 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-ILA1VInjWqx0soewK1E3YgX3_89cYMPN2omZR8zkuCQ 23-6-15 26-11-15 32-10-8 8-0-10 7-9-2 7-9-3 3-5-0 5-10-9 0-10-8

Scale = 1:55.2



		8-0-10	1	15-9-12	23-6-15	24-6-2	32-10-8	
		8-0-10	1	7-9-2	7-9-3	0-11-3	8-4-6	ı
Plate Offse	ets (X,Y)	[5:0-2-0,Edge], [7:0-1-14,0	-6-14], [7:0-3	-8,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 0.77	Vert(LL) -0.24 9-11	>999 240	MT20 197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.87	Vert(CT) -0.46 9-11	>846 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT) 0.10 7	n/a n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix-AS			Weight: 121 lb FT = 20%	6

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

2-11, 6-11

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 14=Mechanical

Max Horz 14=-121(LC 13)

Max Uplift 7=-316(LC 9), 14=-269(LC 8) Max Grav 7=1535(LC 1), 14=1472(LC 1)

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

TOP CHORD 1-2=-2951/659, 2-4=-2267/570, 4-6=-2264/566, 6-7=-3260/720

BOT CHORD 11-13=-532/2750, 9-11=-594/3002, 7-9=-594/3002

WEBS 2-11=-849/277, 4-11=-141/876, 6-11=-1092/333, 6-9=0/320, 1-14=-1405/352,

1-13=-566/2763

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-9-12, Exterior(2R) 15-9-12 to 18-9-12, Interior(1) 18-9-12 to 33-9-0 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 316 lb uplift at joint 7 and 269 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815382 **JOBS 8**A Common 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:12 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-EYkPi5oLH73tTyD6tlml5u3BpYVIHpHWGSW6_azkuCP -1-10-8 1-10-8 16-0-12 21-7-13 27-2-15 33-1-8 34-0-0 0-10-8

5-7-1

5-7-1

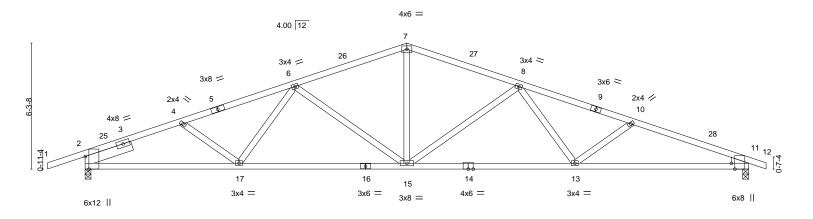
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

5-7-1

Scale = 1:57.5

5-10-9



		7-8-3	16-0-12		24-5-6			33-1-8	
	<u>'</u>	7-8-3	8-4-9		8-4-10		<u>'</u>	8-8-2	
Plate Offs	ets (X,Y)	[2:0-7-9,Edge], [11:0-1-14,0-6	6-14], [11:0-3-8,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 0.95	Vert(LL)	-0.28 13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15 BC 0.84	Vert(CT)	-0.56 15-17	>713	180		
BCLL	0.0	Rep Stress Incr Y	ES WB 0.70	Horz(CT)	0.14 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14 Matrix-AS					Weight: 127 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-5,9-12: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E *Except* 14-16: 2x4 SPF No.2

4-10-9

5-7-1

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

SLIDER Left 2x6 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=107(LC 16)

Max Uplift 2=-355(LC 8), 11=-317(LC 9)

Max Grav 2=1625(LC 1), 11=1549(LC 1)

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

TOP CHORD 2-4=-2855/653, 4-6=-2817/633, 6-7=-2274/572, 7-8=-2271/576, 8-10=-3123/699,

10-11=-3408/763

2-17=-526/2601, 15-17=-499/2605, 13-15=-525/2727, 11-13=-650/3158 **BOT CHORD**

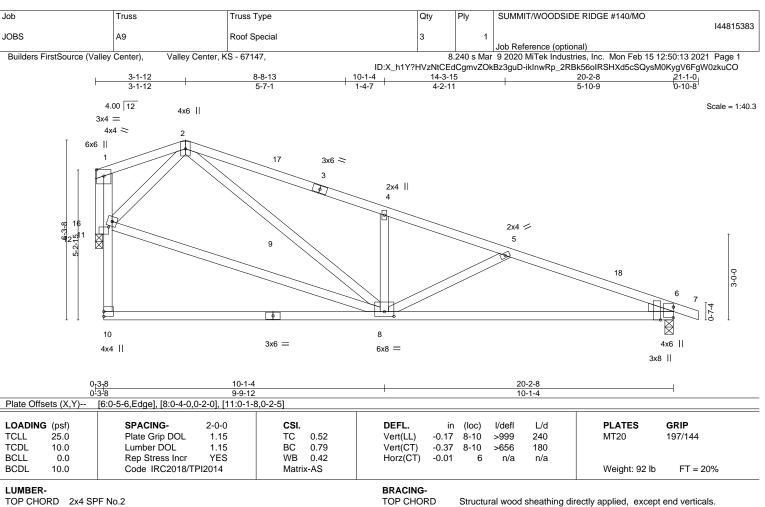
WEBS 6-15=-693/246, 7-15=-201/1053, 8-15=-823/272, 8-13=-37/413, 10-13=-323/178

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 16-0-12, Exterior(2R) 16-0-12 to 19-0-12, Interior(1) 19-0-12 to 34-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 317 lb uplift at joint 11.
- 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.



February 15,2021





BOT CHORD

Rigid ceiling directly applied.

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

OTHERS WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 16=0-3-0

Max Horz 16=-216(LC 10)

Max Uplift 6=-240(LC 9), 16=-165(LC 9) Max Grav 6=966(LC 1), 16=875(LC 1)

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

TOP CHORD 2-4=-1477/452, 4-5=-1442/362, 5-6=-1806/442, 1-11=-218/820

BOT CHORD 6-8=-354/1658

WEBS 8-11=-79/604, 2-11=-775/347, 2-8=-288/964, 4-8=-446/216, 5-8=-363/159,

1-16=-883/229

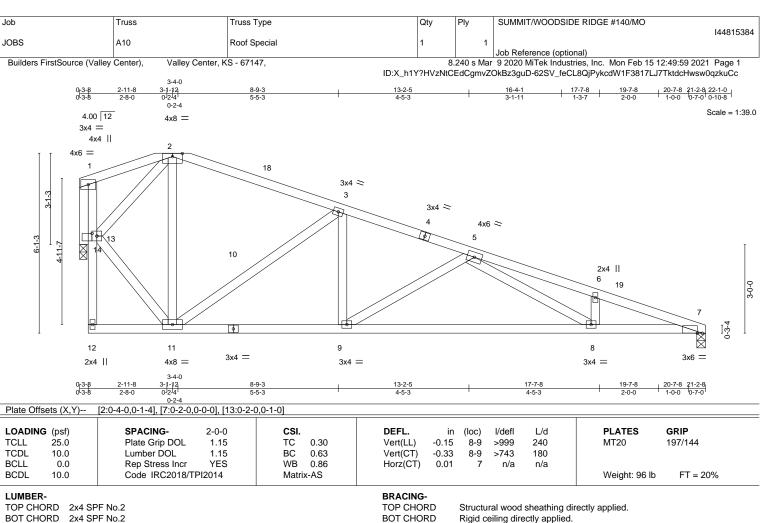
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-1-12, Exterior(2R) 3-1-12 to 6-1-12, Interior(1) 6-1-12 to 21-1-0 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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 6 and 165 lb uplift at joint 16.
- 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.



February 15,2021





LUMBER-

BOT CHORD 2x4 SPF No.2

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

REACTIONS. (size) 7=0-3-8, 14=0-3-0

Max Horz 14=-222(LC 13)

Max Uplift 7=-210(LC 9), 14=-176(LC 9) Max Grav 7=930(LC 1), 14=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-478/211, 3-5=-1319/348, 5-6=-2509/592, 6-7=-2500/535 TOP CHORD **BOT CHORD** 13-14=-820/134, 9-11=-197/1210, 8-9=-364/1727, 7-8=-477/2351

WEBS 3-9=-43/485, 5-9=-602/210, 2-11=-147/261, 3-11=-1002/264, 11-13=-8/601,

2-13=-608/317, 5-8=-137/736

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-1-12, Exterior(2R) 3-1-12 to 6-1-12, Interior(1) 6-1-12 to 21-1-3 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 7, 14 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 210 lb uplift at joint 7 and 176 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 15,2021



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

ANSI/TP11 Quality Criteria, 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 #140/MO 144815385 **JOBS** A11 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:00 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-aE?tB?fq6RYa16JoAEYUbMaEkiRITKrlWacUYHzkuCb 17-9-0 5-2-8 4-1-8 11-5-12 18-9-0 0-9-8 Scale = 1:44.9 4.00 12 3x4 = 4x4 > 6x6 =4x6 = 4x6 19 \bowtie^{20} 21 3x4 > 4 5-5-11 4x6 = 1-8-8 6x8 = 5 22 3-0-0 13 12 10 11 2x4 || 4x12 = 4x4 = 4x4 = 4x6 || 3x4 =3x8 || 11-5-12 17-9-0 18-9-0 4-11-0 Plate Offsets (X,Y)--[7:0-5-6,Edge], [12:0-5-0,0-2-0], [14:0-1-8,0-2-10]

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 0.45	Vert(LL) -0.12 9-10 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.27 9-10 >938 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.01 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 101 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2 WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 15=0-3-0 Max Horz 15=-211(LC 9)

Max Uplift 7=-253(LC 9), 15=-208(LC 9) Max Grav 7=997(LC 1), 15=933(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-692/304, 3-4=-801/283, 4-5=-1770/451, 5-6=-1680/400, 6-7=-1914/429 **BOT CHORD** 14-15=-801/154, 10-12=-327/1617, 9-10=-593/2524, 7-9=-367/1781 12-14=0/314, 2-14=-816/387, 2-12=-307/711, 4-12=-1043/292, 4-10=0/394, **WEBS**

5-10=-920/276, 6-9=-146/748, 5-9=-1152/355

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 1-1-0, Exterior(2R) 1-1-0 to 4-1-0, Interior(1) 4-1-0 to 5-2-8, Exterior(2R) 5-2-8 to 8-2-8, Interior(1) 8-2-8 to 18-9-0, Exterior(2R) 18-9-0 to 21-9-0, Interior(1) 21-9-0 to 22-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 7 and 208 lb uplift at ioint 15.
- 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.



February 15,2021



Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-4-9 max.): 2-3, 5-6.

Rigid ceiling directly applied.



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

4x8 =

ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-2QZFPLgStlgRfGt?kx3j8Z6OR6mRCoXvIEL15jzkuCa

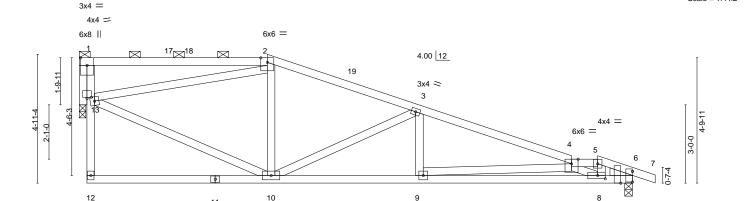
Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-10-15 max.): 1-2, 4-5.

Rigid ceiling directly applied.

Scale = 1:44.2

19-10-8 21-2-8 22-1-0 1-0-0 1-4-0 0-10-8 18-10-8 6-11-0 5-10-0 5-10-0



4x4 =

	0	0 ₇ 3 ₇ 8 7-2	!-8	1		13-0-8	1		18-10-	8	19-10-8 21-2-8	
	0) - 3-8 6-1	1-0			5-10-0	ı		5-10-0)	1-0-0 1-4-0	
Plate Offs	sets (X,Y)	[6:0-5-6,Edge], [8:0-3-8,0)-1-8], [13:0-2-0	,0-0-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.11	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.25	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS	` ′					Weight: 96 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

11

3x4 =

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

OTHERS 2x4 SPF No.2 WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 13=0-3-0

3x4 ||

Max Horz 13=-188(LC 9)

Max Uplift 6=-255(LC 9), 13=-205(LC 9) Max Grav 6=997(LC 1), 13=933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1114/338, 3-4=-1972/491, 4-5=-1436/276, 5-6=-1572/278 **BOT CHORD** 1-13=-254/110, 9-10=-391/1826, 8-9=-632/2709, 6-8=-252/1518

WEBS 10-13=-191/1053, 2-13=-886/295, 2-10=-22/262, 3-10=-916/271, 3-9=0/323,

4-9=-890/260, 5-8=-30/415, 4-8=-1486/463

NOTES-

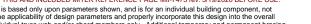
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 19-10-8, Exterior(2E) 19-10-8 to 22-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 6 and 205 lb uplift at ioint 13.
- 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.



3x6 ||

3x8 = 3x8 II

February 15,2021

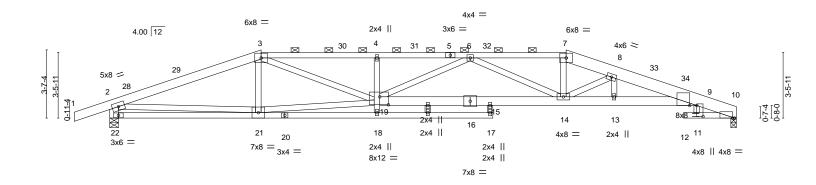




Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815387 Jobs A13 HIP Job Reference (optional) B.240 s Apr 4 2020 MTek Industries, Inc. Mon Feb 15 13:59:21 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-QV?TFpoOC_PLiC1TC9cC6KPHv1WluGaDKS395bzktBa

26-9-11 -1-10-8 1-10-8 4-1-0 8-0-0 14-1-8 19-0-10 4-11-2 24-1-8 5-0-14 30-4-0 31-5-14 33-1-8 34-0-0 1-1-14 1-7-10 0-10-8 6-1-8

Scale = 1:60.9



							31-5-14	
	8-0-0	14-1-8	20-3-0	24-1-8	26-9-11	30-4-0	31-0-5 33-	-1-8
	8-0-0	6-1-8	6-1-8	3-10-8	2-8-3	3-6-5	0-8-5 1-7	7-10
							0-5-9	
Plata Officate (V V)	01 [11 0 0 3 0 0 0] [0 0 0 9 1 0 0]	·0 9 4 0 2 12] [10·0 1 4 Eday	0.0.011.0.0.0.0.0.0.0.0.0	0 1 101 [10:0 5 0	0.5.01			

Flate Of	15615 (7,1)	[3.0-4-6,0-0-0], [3.0-0-3,0-0-14], [3.0-6	-4,0-2-12], [10.0-1-4,Euge]	[11.0-1-0,1-0-0], [11.0-0-0,0-1-12], [19.0-3-0,0-3-0]	
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.42 17-18 >929 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.82 17-18 >480 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.21 10 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 172 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-3-12 max.): 3-7.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

3-5: 2x4 SPF 1650F 1.5E, 7-10: 2x8 SP 2400F 2.0E

5-7: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

9-16: 2x6 SPF 2100F 1.8E, 16-19: 2x6 SPF No.2

WEBS 2x4 SPF No.2 *Except*

2-22: 2x6 SPF No.2

REACTIONS. (lb/size) 22=1629/0-5-8, 10=1489/0-3-8

Max Horz 22=64(LC 16)

Max Uplift 22=-408(LC 8), 10=-312(LC 9)

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

TOP CHORD 2-28=-3038/677, 28-29=-2960/687, 3-29=-2955/703, 3-30=-4821/1146, 4-30=-4821/1146, 4-31=-4898/1161, 5-31=-4898/1161, 5-6=-4898/1161, 6-32=-4032/958, 7-32=-4032/958,

7-8=-4205/982, 8-33=-4974/1171, 33-34=-5010/1160, 9-34=-5038/1157, 9-10=-429/120

20-21=-63/347, 18-20=-63/347, 16-19=-1092/4824, 15-16=-1092/4824, 14-15=-1092/4824,

BOT CHORD 13-14=-1074/4841 9-13=-1074/4841

WFBS 3-21=-357/176, 18-19=0/294, 4-19=-389/162, 7-14=-188/1058, 8-14=-1006/315,

19-21=-543/2493, 3-19=-482/2189, 2-22=-1566/492, 2-21=-582/2816, 6-14=-1018/325

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 24-1-8, Exterior(2R) 24-1-8 to 28-4-7, Interior(1) 28-4-7 to 33-0-5 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) 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) 22, 10 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 408 lb uplift at joint 22 and 312 lb uplift at joint 10.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



February 15,2021



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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job SUMMIT/WOODSIDE RIDGE #140/MO Truss Truss Type Qty 144815388 Jobs A14 HIP GIRDER Job Reference (optional)

18-0-3

2-6-3

15-6-0

4-9-14

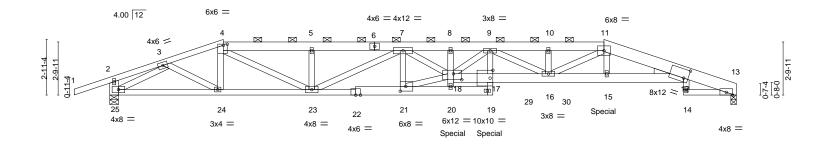
8.240 s Apr 4 2020 MTek Industries, Inc. Mon Feb 15 13:59:39 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-uz4G1z0gzWgnszPwFxxQq79Ojlh?6OgtTFQ6kYzktBI 20-3-020-7-4 23-2-4 2-2-13 0-4-4 2-7-0 26-1-8 30-4-0 33-1-8 2-11-4 4-2-8 2-9-8

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

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

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

Scale = 1:60.9



	H	3-1-12 6-0-0 3-1-12 2-10-4	10-8-2 4-8-2	15-6-0 4-9-14	18-0-3	20-3-0 2-2-13	23-2-4	26-1-8 2-11-4	30-4-0 4-2-8	33-1-8 2-9-8
Plate Offse	ets (X,Y)	[4:0-2-8,0-0-12], [12:0-2-7	12,0-5-10], [17:0-1	-12,0-5-0], [18:0-5-4,0-	-3-12], [21:0-3-8,0)-3-0]				
LOADING	VI /	SPACING-	2-0-0	CSI.	DEFL.	in	(loc) I/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.54 BC 0.85	Vert(LL) Vert(CT)	-0.37 -0.65	18 >999 18 >605	240 180	MT20	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	NO Pl2014	WB 0.71 Matrix-MS	Horz(CT)	0.19	13 n/a	n/a	Weight: 513 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 *Except*

1-4: 2x4 SPF No.2, 11-13: 2x8 SP 2400F 2.0E 2x4 SPF No.2 *Except*

BOT CHORD 12-18: 2x6 SPF 2100F 1.8E, 19-22: 2x6 SPF No.2

2x4 SPF No.2 *Except* **WEBS**

2-25: 2x6 SPF No.2

-1-10-8

1-10-8

3-1-12

3-1-12

6-0-0

2-10-4

10-8-2

4-8-2

WEDGE

Right: 2x4 SPF No.2

REACTIONS. (lb/size) 25=2324/0-5-8, 13=2606/0-3-8

Max Horz 25=51(LC 12)

Max Uplift 25=-576(LC 4), 13=-616(LC 5)

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

3-4=-4474/997, 4-5=-7252/1650, 5-6=-7246/1645, 6-7=-7246/1645, 7-8=-13525/3061, TOP CHORD

8-9=-13865/3135, 9-10=-11450/2659, 10-11=-11450/2659, 11-12=-9967/2359,

12-13=-1032/265

BOT CHORD 24-25=-721/3280, 23-24=-909/4278, 22-23=-2065/9459, 21-22=-2064/9458, 20-21=-214/990, 17-18=-2976/13452, 17-29=-2976/13452, 16-29=-2976/13452,

16-30=-2233/9695, 15-30=-2233/9695, 12-15=-2245/9739, 12-14=-75/359

3-24=-211/1153, 4-24=-419/149, 4-23=-805/3432, 5-23=-550/193, 7-23=-2519/576,

7-21=-1912/474, 11-16=-437/2175, 11-15=-163/643, 18-20=-207/1047, 8-18=-45/276,

 $7\text{-}18\text{=-}1076/4809,\ 18\text{-}21\text{=-}1909/8730,\ 9\text{-}16\text{=-}2333/493,\ 17\text{-}19\text{=-}79/456,\ 9\text{-}18\text{=-}116/613,\ 9\text{-}18\text{--}116/613,\ 9\text{-}18\text{--}18\text{--}116/613,\ 9\text{-}18\text{--}18\text{--}116/613,\ 9\text{-}18\text{---}18\text{---18\text{--}18\text{---18\text{-$

9-17=-28/305, 2-25=-315/191, 3-25=-3822/789

WEBS

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 25, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



February 15,2021

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
Jobs	A14	HIP GIRDER	1	3	Job Reference (optional)	144815388

8.240 s Apr 4 2020 MTek Industries, Inc. Mon Feb 15 13:59:39 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-uz4G1z0gzWgnszPwFxxQq79Ojlh?6OgtTFQ6kYzktBI

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 576 lb uplift at joint 25 and 616 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1050 lb down and 242 lb up at 18-1-15, 226 lb down and 51 lb up at 20-1-4, 60 lb down and 22 lb up at 22-0-12, 60 lb down and 22 lb up at 24-0-12, and 60 lb down and 22 lb up at 26-0-12, and 375 lb down and 165 lb up at 26-1-8 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)

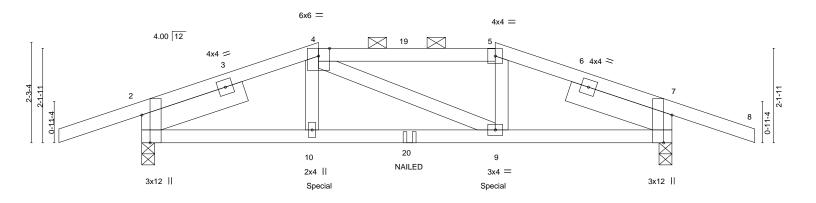
Vert: 1-4=-70, 4-11=-70, 11-12=-70, 12-13=-70, 19-25=-20, 12-17=-20, 14-26=-20

Concentrated Loads (lb)

Vert: 15=-435(F=-375) 19=-226(F) 20=-1050(F) 29=-60 30=-60

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815389 **JOBS B1** Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:14 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-AwsA7nqcplJbjGNV?AomAJ9ezMF6lttpkl?D2TzkuCN 12-0-0 13-10-8 1-10-8 4-0-0 4-0-0 4-0-0 1-10-8

Scale = 1:26.1



	4-0-0 4-0-0		8-0-0 4-0-0	12-0-0 4-0-0	
Plate Offsets (X,Y)	[2:0-7-9,Edge], [7:0-7-9,Edge]		4-0-0	4-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.46 BC 0.63 WB 0.06 Matrix-MS	Vert(LL) -0.05	(loc) I/defl L/d 9-10 >999 240 9-10 >999 180 7 n/a n/a	GRIP 197/144 FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins,

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

WEBS 2-0-0 oc purlins (5-3-0 max.): 4-5. **SLIDER** Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 2=-37(LC 5)

Max Uplift 2=-229(LC 4), 7=-229(LC 5) Max Grav 2=837(LC 1), 7=837(LC 1)

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

2-4=-1110/225, 4-5=-1007/223, 5-7=-1111/224 TOP CHORD **BOT CHORD** 2-10=-173/1021, 9-10=-174/1006, 7-9=-159/1021

WEBS 4-10=0/250, 5-9=-11/251

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 2 and 229 lb uplift at joint 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 167 lb down and 53 lb up at 4-0-0, and 167 lb down and 53 lb up at 7-11-4 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

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

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 11-15=-20

Concentrated Loads (lb)

Vert: 10=-167(B) 9=-167(B) 20=2(B)



February 15,2021



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Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
						I44815390
JOBS	B2	Common	4	1		
					Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.240 s Mar	9 2020 MiTek Industries, Inc. Mon Feb 15	12:50:15 2021 Page 1
		IC):X_h1Y?HVzNtC	EdCgmvZ(OkBz3guD-e7PYL7qEa2RSKQyhZtJ?iWht5lg	g6UJDzzPknavzkuCM
-1-10-8		6-0-0		•	12-0-0	13-10-8
1-10-8		6-0-0			6-0-0	1-10-8

Scale = 1:25.3

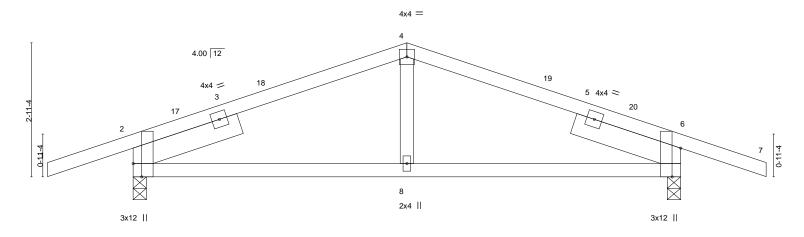


Plate Off	sets (X,Y)	[2:0-3-8,Edge], [6:0-7-9,E	6-0- Edael	0	I		6-0-0		ı	
LOADIN		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.25 BC 0.26	Vert(LL) Vert(CT)	-0.03 8-11 -0.05 8-11	>999	240 180	MT20	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/Ti	YES PI2014	WB 0.05 Matrix-AS	Horz(CT)	0.02 6	n/a	n/a	Weight: 44 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

12-0-0

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-46(LC 17)

Max Uplift 2=-183(LC 8), 6=-183(LC 9)

Max Grav 2=671(LC 1), 6=671(LC 1)

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

2-4=-668/290, 4-6=-668/290 TOP CHORD 2-8=-161/615, 6-8=-161/615 BOT CHORD

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-10-8 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 183 lb uplift at joint 2 and 183 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

6-0-0

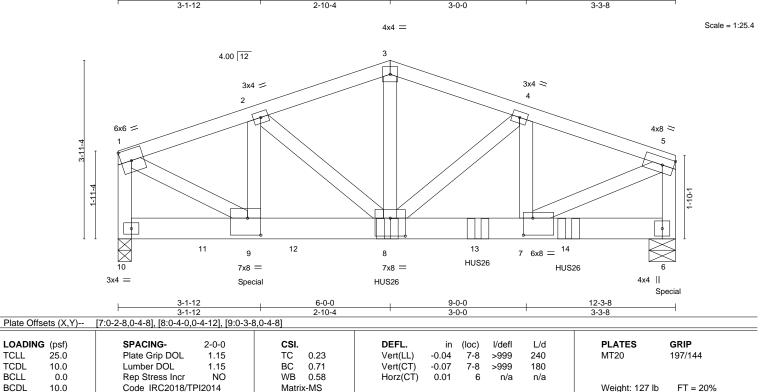
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 15,2021







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

2x4 SPF No.2 **WEBS**

REACTIONS. (size) 6=0-7-0, 10=0-3-8 Max Horz 10=-37(LC 6)

Max Uplift 6=-1063(LC 5), 10=-818(LC 4) Max Grav 6=5511(LC 1), 10=4288(LC 1)

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

1-2=-4481/854, 2-3=-4476/878, 3-4=-4476/875, 4-5=-4741/905, 1-10=-3819/741, TOP CHORD

5-6=-3680/718

BOT CHORD 8-9=-781/4211, 7-8=-857/4456

WEBS 3-8=-480/2564, 4-8=-353/103, 1-9=-881/4662, 5-7=-897/4758

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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) 6, 10 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 1063 lb uplift at joint 6 and 818 lb uplift at joint 10.
- 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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-11-4 from the left end to 9-11-4 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1452 lb down and 289 lb up at 1-11-4, and 1452 lb down and 289 lb up at 3-11-4, and 1460 lb down and 296 lb up at 12-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Special hanger(s) or other connection device(s) shall be provided at 2-11-4 from the left end sufficient to connect truss(es) to front Continue to hotage ghord. The design/selection of such special connection device(s) is the responsibility of others



Structural wood sheathing directly applied or 5-8-12 oc purlins,

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

except end verticals.

February 15,2021

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SUMMIT/WOODSIDE RIDGE #140/MO Job Truss Truss Type Qty Ply 144815391 COMMON GIRDER **JOBS** ВЗ

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

| **Z** | Job Reference (optional) 8.240 s Mar | 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:16 2021 | Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-6JzwYTrsLMZJyZXt6bqEFkE1A9vKDd76B3UK7LzkuCL

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 6-10=-20

Concentrated Loads (lb)

Vert: 6=-1460(F) 8=-1452(F) 11=-1452(F) 12=-1452(F) 13=-1452(F) 14=-1452(F)



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815392 **JOBS** C₁ Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:17 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-aVXIIpsU6ghAaj63glLTnxn6lZCky4hGQjDtfnzkuCK 4-0-0 3-11-8 4-0-0 Scale = 1:21.4 NAILED NAILED 6x6 = 6x6 = 4.00 12 NAILED 10× 1-2-1 6x6 = 6x6 = 2-8-7 7 12 6 5x8 = 115x8 = Special 3x4 =Special 9-0 NAILED 6.30 12 11-11-8 2-9-15 3-1-13 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/defl

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.15

-0.23

0.23

6-7

6-7

5

>950

>596

n/a

240

180

n/a

Rigid ceiling directly applied or 6-0-4 oc bracing.

LUMBER-TOP CHORD

TCLL

TCDL

BCLL

BCDI

2x4 SPF No 2 2x4 SPF No.2

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

25.0

10.0

0.0

10.0

REACTIONS. (size) 9=0-3-8, 5=0-3-8 Max Horz 9=34(LC 7)

Max Uplift 9=-284(LC 4), 5=-282(LC 5) Max Grav 9=777(LC 1), 5=775(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

1-9=-756/288, 1-2=-2784/1082, 2-3=-2566/1047, 3-4=-2774/1101, 4-5=-753/303 TOP CHORD

1.15

1.15

NO

TC

ВС

WB

Matrix-MS

0.59

0.89

0.63

BOT CHORD 7-8=-885/2279, 6-7=-912/2274

WEBS 1-8=-983/2557, 2-8=-195/506, 2-7=-164/395, 3-7=-167/401, 3-6=-192/501,

4-6=-1009/2548

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 9, 5 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 284 lb uplift at joint 9 and 282 lb uplift at ioint 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "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) 195 lb down and 156 lb up at 4-0-0, and 195 lb down and 156 lb up at 7-10-12 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

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 8-9=-20, 6-8=-20, 5-6=-20



197/144

FT = 20%

MT20

Structural wood sheathing directly applied or 3-2-6 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-1-15 max.): 2-3.

Weight: 46 lb

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Continued on page 2



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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
					I44815392
JOBS	C1	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:17 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-aVXIlpsU6ghAaj63glLTnxn6lZCky4hGQjDtfnzkuCK

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 2=-26(F) 3=-26(F) 7=-35(F) 10=-26(F) 11=-195(F) 12=-195(F)



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815393 JOBS C2 Roof Special Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:18 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-2i5gz9t6tzp1BthGE?siK9JN7zg3hbIPfNzRBEzkuCJ 11-11-8 3-1-13 2-9-15 2-9-15 3-1-13 Scale = 1:23.2 4x6 = 3 4.00 12 2x4 | 2x4 || 11 10 4x6 < 4x6 = 8 7 5x12 = 5x12 = 1-6-0 6.30 12

	3-1-13		5-7-15		-	3-1-13
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 0.20	Vert(LL) -0.08	7-8 >999	240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.18	7-8 >796	180	
BCLL 0.0	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.13	6 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,			Weight: 47 lb FT = 20%
LUMBER-			BRACING-			

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

2x4 II

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 9=0-3-8, 6=0-3-8 (size) Max Horz 9=25(LC 9) Max Uplift 9=-98(LC 8), 6=-98(LC 9) Max Grav 9=525(LC 1), 6=525(LC 1)

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

TOP CHORD 1-9=-523/240, 1-2=-1614/728, 2-3=-1604/808, 3-4=-1604/710, 4-5=-1614/647,

5-6=-523/238 **BOT CHORD** 7-8=-409/898

WFBS 3-7=-274/716, 5-7=-556/1419, 3-8=-374/716, 1-8=-606/1419

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-3-9, Interior(1) 3-3-9 to 5-11-12, Exterior(2R) 5-11-12 to 8-11-12, Interior(1) 8-11-12 to 11-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 9, 6 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 98 lb uplift at joint 9 and 98 lb uplift at ioint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



2x4 ||

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

February 15,2021



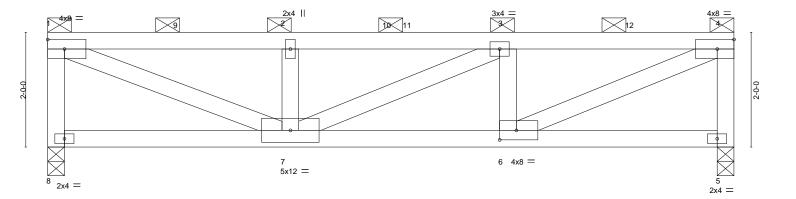
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, 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 #140/MO 144815394 Flat Girder **JOBS** C4 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:19 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-Wuf3AVukeHxup1GSojOxtMsMgNweQ_EYt1i_jgzkuCl 4-1-0 3-9-8 4-1-0

Scale = 1:20.1



<u> </u>	4-1-0 4-1-0		7-10-8 3-9-8		——	
Plate Offsets (X,Y)	[6:0-3-8,0-2-0]	,	J-9-0		4-1-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.98 BC 0.73 WB 0.62 Matrix-MS	DEFL. in (loc) Vert(LL) -0.08 6-7 Vert(CT) -0.14 6-7 Horz(CT) 0.02 5	>999 240 >999 180		RIP 7/144 FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

> (size) 8=0-3-8, 5=0-3-8 Max Horz 8=65(LC 5)

Max Uplift 8=-619(LC 4), 5=-549(LC 5) Max Grav 8=3332(LC 1), 5=2745(LC 1)

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

1-8=-3253/626, 1-2=-4884/921, 2-3=-4884/921, 3-4=-4822/946, 4-5=-2669/554 TOP CHORD

BOT CHORD 6-7=-962/4822

WFBS 1-7=-964/5087, 2-7=-1953/400, 3-6=-2046/452, 4-6=-996/5077

NOTES-

REACTIONS.

- 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: 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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 8, 5 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 619 lb uplift at joint 8 and 549 lb uplift at ioint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 832 lb down and 166 lb up at 0-1-12, 805 lb down and 169 lb up at 2-4-4, 805 lb down and 169 lb up at 4-4-4, 860 lb down and 176 lb up at 6-4-4, and 863 lb down and 211 lb up at 8-2-12, and 863 lb down and 209 lb up at 10-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



2-0-0 oc purlins (2-10-13 max.): 1-4, except end verticals.

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

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Continued on page 2



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SUMMIT/WOODSIDE RIDGE #140/MO Job Truss Truss Type Qty Ply 144815394 Flat Girder **JOBS** C4 | **Z** | Job Reference (optional) 8.240 s Mar | 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:19 2021 | Page 2

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

ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-Wuf3AVukeHxup1GSojOxtMsMgNweQ_EYt1i_jgzkuCl

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 5-8=-20 Concentrated Loads (lb)

Vert: 1=-832 2=-805 3=-863 9=-805 11=-860 12=-863



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815395 **JOBS** CJ1 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:20 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-?4DROquNPb3kRBqeLQvAPaPZ2mJ89Wxi6hSYG6zkuCH

3-9-14

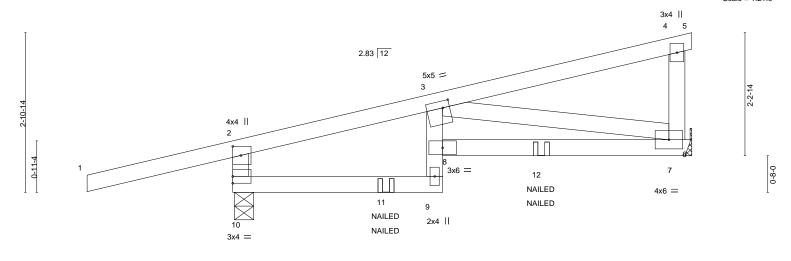
Scale = 1:21.0

4-6-7

except end verticals.

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

Rigid ceiling directly applied or 9-11-1 oc bracing.



	0-0-6	3-9-8		4-6-7	
Plate Offsets (X,Y)	[2:0-2-0,0-1-12], [3:0-1-8,0-1-8]				
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.87	DEFL. Vert(LL)	in (loc) I/defl L/d -0.06 8 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.52 WB 0.28 Matrix-MS	Vert(CT) Horz(CT)	-0.10 7-8 >920 180 0.02 7 n/a n/a	Weight: 31 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

REACTIONS. (size) 10=0-4-3, 7=Mechanical

Max Horz 10=109(LC 5)

Max Uplift 10=-271(LC 4), 7=-137(LC 8) Max Grav 10=631(LC 1), 7=403(LC 1)

2-7-13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-10=-546/254, 2-3=-401/152

BOT CHORD 9-10=-158/329, 7-8=-347/861

WFBS 3-7=-776/340

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 10 and 137 lb uplift at joint 7.
- 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: 1-2=-70, 2-4=-70, 4-5=-20, 9-10=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 11=-23(F=-6, B=-17) 12=-89(F=-49, B=-40)



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Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815396 **JOBS** CJ₂ Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:24 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-trSyDCxtSpZAvo8QaGz6aQZJnOhb5NsH1JQIPuzkuCD 5-10-10 2-7-13 3-1-1 2-9-9 2-5-11 Scale = 1:21.2 2x4 || 5 6 3x4 =2.83 12 NAILED 4 NAILED 1-10-14 3x4 = \mathbb{H} 2x4 || 3x6 = 8 3x6 = 11 10 2x4 || 3x8 = NAILED NAILED 2x4 NAILED NAILED 5-10-10 3-1-1 2-9-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) L/d **PLATES** GRIP I/defl 25.0 Plate Grip DOL Vert(LL) -0.09 10-11 240 197/144 **TCLL** 1.15 TC 0.63 >999 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.18 10-11

8

-0.02

>537

except end verticals.

6-0-0 oc bracing: 9-10

n/a

180

n/a

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

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

Weight: 33 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

WEBS 2x4 SPF No.2

REACTIONS. 8=Mechanical, 12=0-4-9 (size) Max Horz 12=89(LC 5)

Max Uplift 8=-83(LC 8), 12=-208(LC 4) Max Grav 8=324(LC 21), 12=582(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 3-4=-336/66 **BOT CHORD** 8-9=-116/493

WEBS 4-8=-507/135, 2-12=-475/228, 3-10=0/381

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-MS

0.49

0.09

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

1.15

NO

- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 8 and 208 lb uplift at joint 12.
- 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: 1-5=-70, 5-6=-20, 10-12=-20, 7-9=-20

Concentrated Loads (lb)

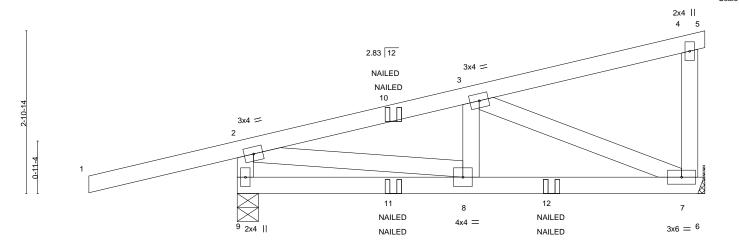
Vert: 10=19(F=10, B=10)



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Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815397 **JOBS** CJ3 Diagonal Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:24 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-trSyDCxtSpZAvo8QaGz6aQZJnOI15MAH1JQIPuzkuCD 8-4-5 2-7-13 4-2-3 4-2-3 Scale = 1:20.6



		4-2-3			4-2-3
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 0.63	Vert(LL) -0.01	7-8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.02	8-9 >999 180	
BCLL 0.0	Rep Stress Incr NC	WB 0.13	Horz(CT) 0.00	7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	. ,		Weight: 36 lb FT = 20%

BOT CHORD

4-2-3

LUMBER-BRACING-TOP CHORD

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

REACTIONS. 9=0-4-9, 7=Mechanical (size) Max Horz 9=120(LC 7) Max Uplift 9=-210(LC 4), 7=-81(LC 8)

Max Grav 9=582(LC 1), 7=324(LC 21)

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

TOP CHORD 2-9=-546/223, 2-3=-445/79 **BOT CHORD** 7-8=-76/387

WEBS 2-8=-30/421, 3-7=-419/110

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 9 and 81 lb uplift at joint 7.
- 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: 1-2=-70, 2-4=-70, 4-5=-20, 6-9=-20

Concentrated Loads (lb)

Vert: 12=19(F=10, B=10)



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

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

except end verticals.

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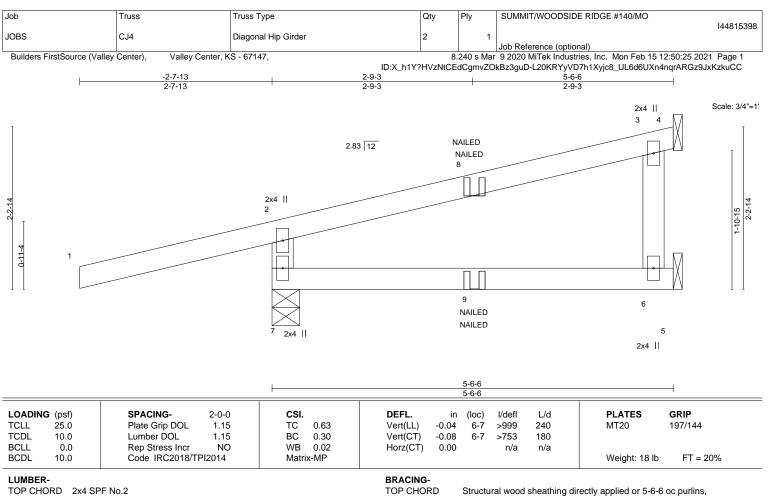
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16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 7=0-4-9, 4=Mechanical, 6=Mechanical

Max Horz 7=-10(LC 6), 4=81(LC 4) Max Uplift 7=-218(LC 4), 6=-25(LC 8) Max Grav 7=479(LC 1), 6=197(LC 1)

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

TOP CHORD 2-7=-428/240

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 218 lb uplift at joint 7 and 25 lb uplift at ioint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "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: 1-2=-70, 2-4=-70, 5-7=-20



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except end verticals.

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

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815399 **JOBS** CJ5 Diagonal Hip Girder 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:26 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-pEaieuz7_Rqu96loih0afrefHBRcZlBaUdvsTmzkuCB 2-7-13 4-3-15 Scale = 1:18.2 3x4 = 3 2.83 12 1-3-10 4x4 = 6 5x5 = 2x4 || NAILED NAILED 4.46 12 2x4 | 4-3-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) 0.04 240 197/144 **TCLL** TC 0.63 7-8 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.04 7-8 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.03 Horz(CT) -0.00 6 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 8=0-3-7, 6=Mechanical

Max Horz 8=89(LC 5) Max Uplift 8=-237(LC 4), 6=-105(LC 8)

Max Grav 8=479(LC 1), 6=188(LC 1)

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

TOP CHORD 2-8=-437/238

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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) 8 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 237 lb uplift at joint 8 and 105 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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: 1-2=-70, 2-3=-70, 3-4=-20, 7-8=-20, 5-7=-20



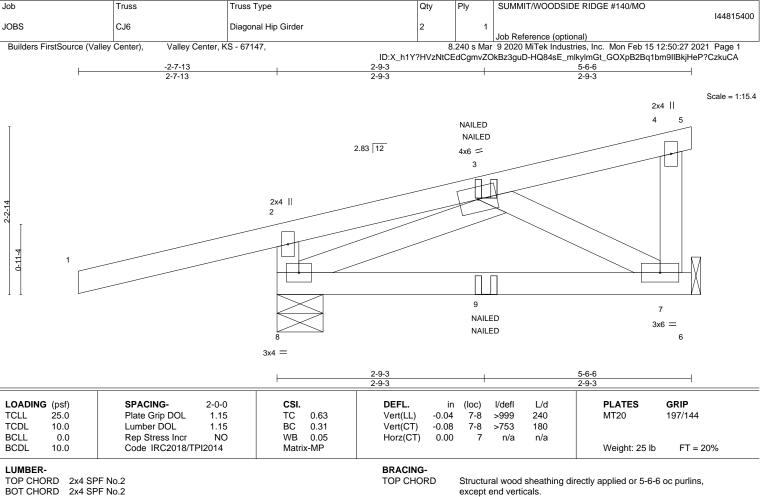
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

February 15,2021





BOT CHORD

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

2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. 7=Mechanical, 8=0-7-6 (size)

Max Horz 8=85(LC 7) Max Uplift 7=-53(LC 8), 8=-201(LC 4)

Max Grav 7=195(LC 1), 8=486(LC 1)

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

WEBS 2-8=-398/242

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 201 lb uplift at ioint 8.
- 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=-70, 4-5=-20, 6-8=-20

Concentrated Loads (lb) Vert: 9=-13(F)

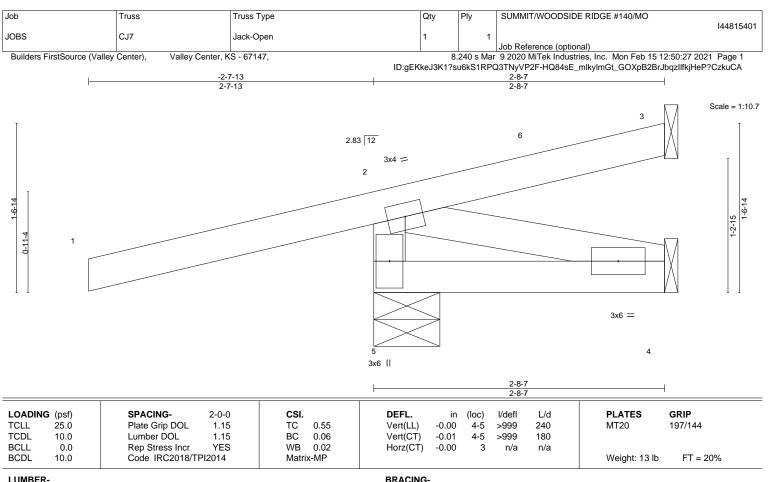


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16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-7-6, 3=Mechanical, 4=Mechanical (size) Max Horz 5=45(LC 8)

> Max Uplift 5=-198(LC 8), 3=-22(LC 1), 4=-3(LC 8) Max Grav 5=419(LC 1), 3=32(LC 8), 4=51(LC 3)

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

TOP CHORD 2-5=-393/435

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-7-11 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 198 lb uplift at joint 5, 22 lb uplift at joint 3 and 3 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-8-7 oc purlins,

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

except end verticals.





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

ANSI/TP11 Quality Criteria, 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 #140/MO 144815402 JOBS CJ8 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:28 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-mdiS3Z?OW24cOPSBp622kGk03?711CCtyxOzYfzkuC9

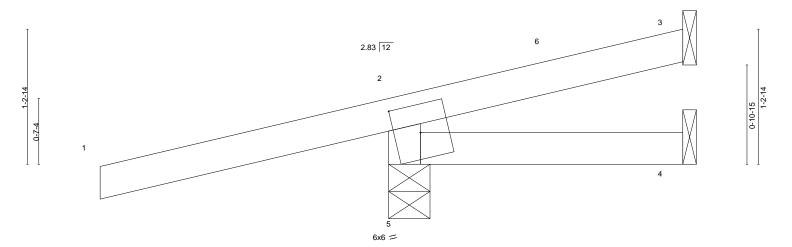
2-8-7

Structural wood sheathing directly applied or 2-8-7 oc purlins,

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

except end verticals.

Scale = 1:10.6



				2-8-7									
Plate Offsets (X,Y) [2:0-1-13,0-0-0], [5:0-2-14,0-3-1], [5:0-0-6,0-1-11]												_	
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	0.55	Vert(LL)	0.01	4-5	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL 1	.15	BC	0.20	Vert(CT)	0.01	4-5	>999	180			
BCLL	0.0	Rep Stress Incr Y	ΈS	WB	0.00	Horz(CT)	0.01	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matri	k-MR						Weight: 10 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=54(LC 8) Max Uplift 5=-204(LC 8), 3=-14(LC 12), 4=-15(LC 1)

Max Grav 5=418(LC 1), 3=17(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-353/401

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-7-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 5, 14 lb uplift at joint 3 and 15 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815403 JOBS CJ9 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:29 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-EpGrHv?0HMCT0Z0NNpZHHTGAVPIQmfw1Bb7W45zkuC8

2-9-3

Scale: 3/4"=1"

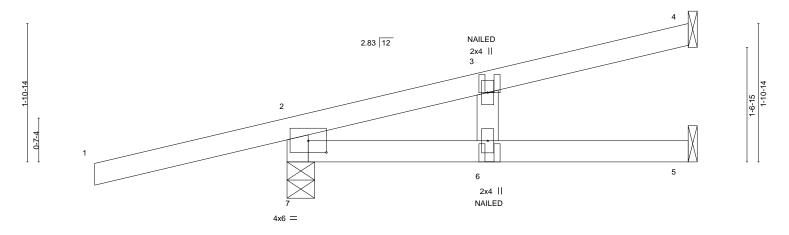


Plate Offsets (X,Y)--[2:0-1-12,0-0-7], [7:0-3-0,0-1-15], [7:0-0-0,0-1-12] SPACING-**PLATES** GRIP LOADING (psf) DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.64 Vert(LL) -0.14 6 >469 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.96 Vert(CT) -0.246 >265 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 17 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SPF No.2

> (size) 7=0-4-9, 4=Mechanical, 5=Mechanical Max Horz 7=-5(LC 6), 4=84(LC 4) Max Uplift 7=-220(LC 4), 5=-25(LC 8) Max Grav 7=483(LC 1), 5=184(LC 1)

2-7-13

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

TOP CHORD 2-7=-294/212 WEBS 3-6=-274/97

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 7 and 25 lb uplift at ioint 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.
- 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

Vert: 6=8(F)

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



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

Rigid ceiling directly applied or 5-11-4 oc bracing.

except end verticals.

February 15,2021





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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 #140/MO 144815404 JOBS CJ10 Roof Special Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:21 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-THnpbAv?AuBb2LPrv8QPynxpdAmmu1yrLLB5oZzkuCG 5-6-6 2-7-13 2-9-3 2-9-3

Scale = 1:15.4

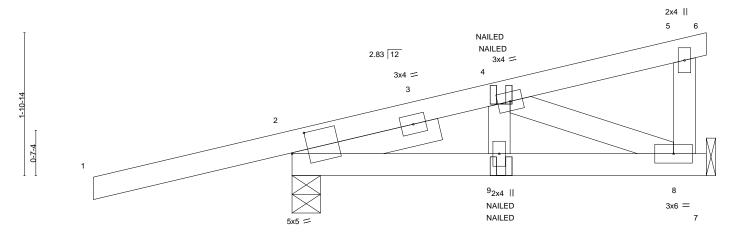


Plate Offs	sets (X,Y)	[2:0-2-10,0-2-13]				2-9-3					2-9-3	
LOADING		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.11	Vert(CT)	-0.01	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 23 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 2=0-4-9, 8=Mechanical

Max Horz 2=87(LC 25)

Max Uplift 2=-184(LC 4), 8=-52(LC 8) Max Grav 2=461(LC 1), 8=193(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 52 lb uplift at joint 8.
- 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: 1-5=-70, 5-6=-20, 7-10=-20

Concentrated Loads (lb)

Vert: 9=15(F=8, B=8)



Structural wood sheathing directly applied or 5-6-6 oc purlins.

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

February 15,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815405 **JOBS** CJ11 Diagonal Hip Girder 2 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:22 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-xTKBpWwdxCJSgU_1TrxeU?U3ua2BdUj?a?xeK?zkuCF 5-6-6 1-2-14 Scale = 1:13.7 3x4 || 5 NAILED 2.83 12 NAILED 6x6 = 4 1-2-14 3x4 = 3 8 0-7-4 3x4 II 10 3x4 | NAILED 4x4 II NAILED 5-6-6 Plate Offsets (X,Y)-- [2:0-1-10,0-2-9], [4:0-1-13,0-0-0], [4:0-3-0,0-4-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.03	9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-MR						Weight: 18 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 8=Mechanical, 2=0-4-9 Max Horz 2=54(LC 22)

Max Uplift 8=-74(LC 8), 2=-116(LC 4) Max Grav 8=248(LC 1), 2=341(LC 1)

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

TOP CHORD 2-4=-322/94 **BOT CHORD** 2-10=-102/314

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 8 and 116 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "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: 1-5=-70, 5-6=-20, 10-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 10=-17(F=-9, B=-9)



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

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

except end verticals.

February 15,2021

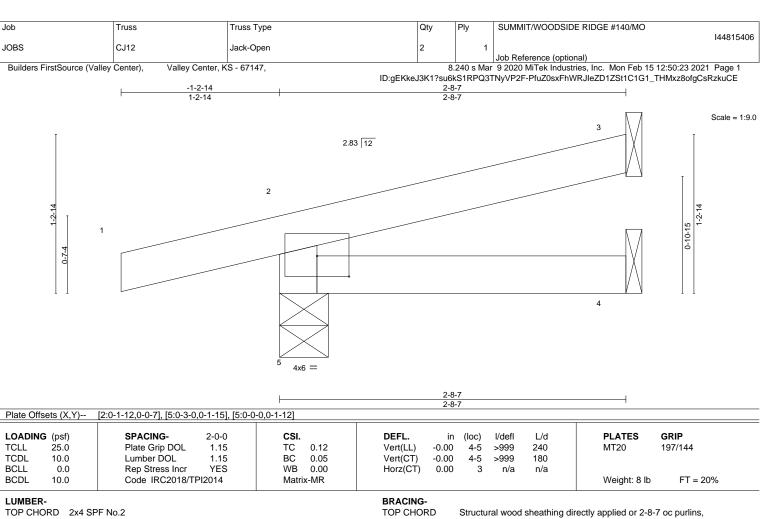


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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BOT CHORD

except end verticals.

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

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=36(LC 8)

Max Uplift 5=-93(LC 8), 3=-30(LC 12) Max Grav 5=236(LC 1), 3=65(LC 1), 4=44(LC 3)

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

NOTES-

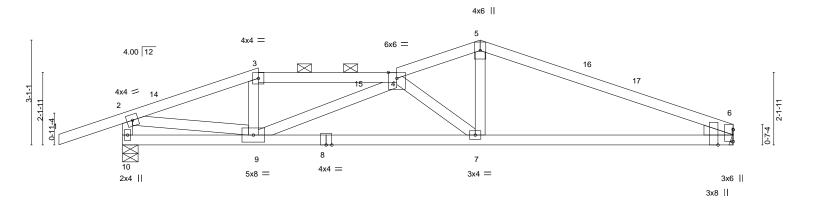
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 5 and 30 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
					I44815407
JOBS	D1	Roof Special	1	1	
					Job Reference (optional)
Builders FirstSource (Valle	y Center), Valley Center,	KS - 67147,	8	.240 s Mar	9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:30 2021 Page 1
			ID:X_h1Y?HVzNt0	EdCgmvZ	OkBz3guD-i?pDUF0e2fKKdjbZxX4WphpNBoj8V2nAPFt3cXzkuC7
-1-10-8	4-0-0	8-1-0	10-6-8		18-0-0
1-10-8	4-0-0	4-1-0	2-5-8		7-5-8

Scale = 1:34.0



		4-0-0	8-1-0	10-6-8		8-0-0	
		4-0-0	4-1-0	2-5-8		7-5-8	
Plate Off	sets (X,Y)	[6:0-5-6,Edge]					
LOADIN	G (psf)	SPACING- 2-0-	CSI.	DEFL . in	(loc) I/defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.1	TC 0.51	Vert(LL) -0.08	7-13 >999 240	MT20 197/144	
TCDL	10.0	Lumber DOL 1.1	BC 0.54	Vert(CT) -0.15	7-13 >999 180		
BCLL	0.0	Rep Stress Incr YE	WB 0.32	Horz(CT) 0.02	6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 63 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-10-3 max.): 3-4.

Rigid ceiling directly applied.

LUMBER-

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

WEBS WEDGE

Right: 2x4 SPF No.2

REACTIONS. (size) 10=0-5-8, 6=Mechanical

Max Horz 10=56(LC 16)

Max Uplift 10=-249(LC 8), 6=-133(LC 9) Max Grav 10=953(LC 1), 6=795(LC 1)

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

TOP CHORD 2-3=-1376/374, 3-4=-1272/381, 4-5=-1414/433, 5-6=-1466/406

BOT CHORD 7-9=-487/1815, 6-7=-316/1321

WEBS 4-9=-601/224, 2-10=-921/363, 2-9=-302/1287, 5-7=-94/546, 4-7=-658/224

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 10-6-8, Exterior(2R) 10-6-8 to 13-6-8, Interior(1) 13-6-8 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 10 and 133 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15,2021



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

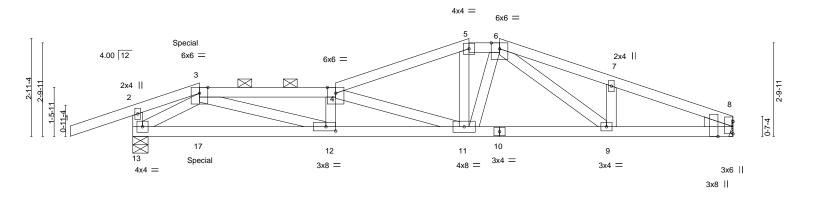
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Ply	SUMMIT/WOODSIDE RI	DGE #140/MO	
				· · ·		,	1			144815408
JOBS		D2		Roof Special Girder		1		1		
								Job Reference (optional)		
Builders Fire	stSource (Valley	Center),	Valley Center, K	S - 67147,		8	.240 s M	ar 9 2020 MiTek Industries,	Inc. Mon Feb 15 12:50:31 2021	Page 1
	, ,				ID:X_h1Y?F	- IVzNtCEd	CgmvZO	kBz3guD-ACNbib1GpzSBFt	AmUEblMuMYWC10ETaJevcd9	_zkuC6
1	-1-10-8	2-0-0	1	6-1-0	10-1-0	, 1	1-0-0	14-4-4	18-0-0	1
	1-10-8	2-0-0		4-1-0	4-0-0	1	11-0	3-4-4	3-7-12	l

Scale = 1:34.6



		2-0-0	6-1-0 4-1-0		10-1-0 4-0-0	11-0-0	14-4-4 3-4-4	18-0-0 3-7-12	
Plate Offse	ets (X,Y)	[8:0-5-6,Edge], [12:0-3-8							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.11 11-12	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.20 12	>999 180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.03 8	n/a n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix-MS				Weight: 69 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (3-4-15 max.): 3-4, 5-6. **WEBS** 2x4 SPF No.2 **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WEDGE 8-9-14 oc bracing: 11-12.

Right: 2x4 SPF No.2

REACTIONS. (size) 8=Mechanical, 13=0-5-8

Max Horz 13=52(LC 12)

Max Uplift 8=-141(LC 5), 13=-240(LC 4) Max Grav 8=789(LC 1), 13=901(LC 1)

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

TOP CHORD 3-4=-2411/445, 4-5=-1512/270, 5-6=-1379/277, 6-7=-1569/324, 7-8=-1598/282**BOT CHORD** 12-13=-163/871, 11-12=-451/2458, 9-11=-193/1302, 8-9=-232/1473

3-12=-305/1666, 4-12=-414/150, 4-11=-1117/250, 5-11=-33/269, 6-11=-66/299,

2-13=-262/173, 3-13=-1047/139, 6-9=-115/301

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 8 and 240 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 205 lb up at 2-0-0 on top chord, and 17 lb down and 37 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

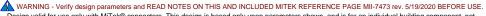
Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 13-14=-20



Structural wood sheathing directly applied or 4-5-8 oc purlins, except

February 15,2021





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SUMMIT/WOODSIDE RIDGE #140/MO Job Truss Truss Type Qty Ply 144815408 JOBS D2 Roof Special Girder

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:31 2021 Page 2
ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-ACNbib1GpzSBFtAmUEblMuMYWC10ETaJevcd9_zkuC6

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 3=58(F)

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 SUMMIT/WOODSIDE RIDGE #140/MO 144815409 **JOBS** D3 Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:32 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-eOxzvx2uaHa2t1ly2y6_u6uhycMfz?zTtZMAhQzkuC5 14-11-0

4-11-0

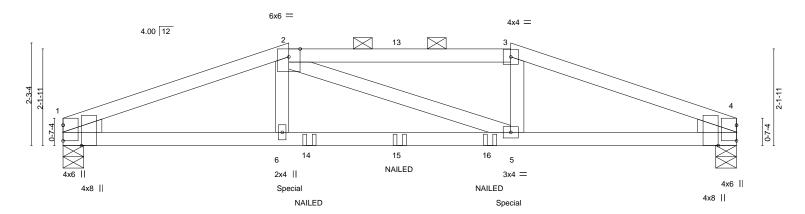
Scale = 1:25.5

5-0-0

Structural wood sheathing directly applied or 4-2-0 oc purlins, except

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

Rigid ceiling directly applied or 9-6-6 oc bracing.



F		5-0-0 5-0-0		9-11-0 4-11-0		14-11-0 5-0-0	
Plate Offs	sets (X,Y)	[1:0-5-6,Edge], [4:0-5-6,Edge]		4-11-0		3-0-0	
LOADING	(ncf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.07 5-6		MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.16 5-6	>999 180		
BCLL	0.0	Rep Stress Incr NO	WB 0.08	Horz(CT) 0.04 4	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS			Weight: 47 lb FT = 20%	

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

Max Horz 1=-28(LC 13)

Max Uplift 1=-199(LC 4), 4=-199(LC 5) Max Grav 1=833(LC 1), 4=833(LC 1)

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

TOP CHORD 1-2=-1754/431, 2-3=-1605/428, 3-4=-1754/430 **BOT CHORD** 1-6=-384/1622, 5-6=-383/1604, 4-5=-363/1622

WEBS 2-6=-20/322, 3-5=-36/322

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 1 and 199 lb uplift at ioint 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) 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) 164 lb down and 81 lb up at 5-0-0, and 164 lb down and 81 lb up at 9-10-4 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

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 7-10=-20

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

February 15,2021

Continued on page 2



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

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
					I44815409
JOBS	D3	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:32 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-eOxzvx2uaHa2t1ly2y6_u6uhycMfz?zTtZMAhQzkuC5

LOAD CASE(S) Standard

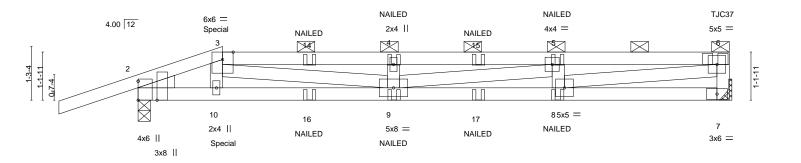
Concentrated Loads (lb)

Vert: 6=-164(F) 5=-164(F) 14=2(F) 15=2(F) 16=2(F)



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815410 **JOBS** E1 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:33 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-6aVL6H2WLaiuVBK8cfeDRJRtJ0jkiMCc6D5kDszkuC4 14-0-0 1-10-8 4-0-9 3-10-13 4-0-9

Scale = 1:27.3



	2-0-0		6-0-9 4-0-9	-	9-11 3-10-			-	13-11-0 3-11-9	14 _τ ρ-0 0-1-0
Plate Offsets (X,Y) [2	:0-5-6,Edge]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 NO I2014	CSI. TC 0.46 BC 0.68 WB 0.46 Matrix-MS	DEFL. Vert(LL Vert(CT Horz(C) -0.26	(loc) 8-9 8-9 7	I/defl >999 >631 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 51 lb	GRIP 197/144 FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=46(LC 35)

Max Uplift 2=-221(LC 4), 7=-145(LC 5) Max Grav 2=745(LC 1), 7=740(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1107/227, 3-4=-2398/538, 4-5=-2395/537, 5-6=-2003/450, 6-7=-678/154

BOT CHORD 2-10=-234/1042, 9-10=-245/1057, 8-9=-461/2003

WEBS 3-9=-328/1373, 4-9=-313/125, 5-9=-92/401, 5-8=-347/132, 6-8=-429/1891

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 145 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 13-10-4 from the left end to connect truss(es) to front face of top chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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) 83 lb down and 28 lb up at 2-0-0 on top chord, and 47 lb down and 27 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 5-4-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-5-6 max.): 3-6.

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

8-8-3 oc bracing: 8-9.

February 15,2021

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO
					I44815410
JOBS	E1	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:33 2021 Page 2 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-6aVL6H2WLaiuVBK8cfeDRJRtJ0jkiMCc6D5kDszkuC4

LOAD CASE(S) Standard

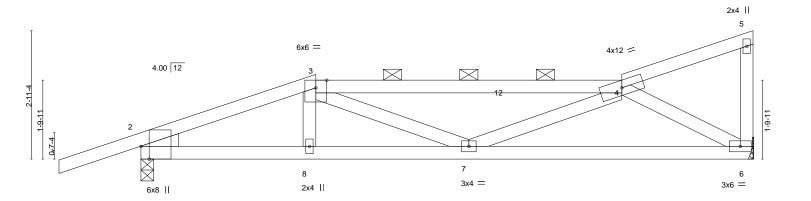
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 3-6=-70, 7-11=-20

Concentrated Loads (lb)

Vert: 6=-140(F) 10=7(F) 9=7(F) 8=7(F) 16=7(F) 17=7(F)



Job		Truss	Truss Type		Qty	Ply	SUMMIT/WOODSIDE RIDO	GE #140/MO	
									144815411
JOBS		E2	Roof Special		1	1			
							Job Reference (optional)		
Builders	FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.	240 s Mar	9 2020 MiTek Industries, Inc	c. Mon Feb 15 12:50:34 2021	Page 1
				ID:gEKk	eJ3K1?su	6kS1RPQ	3TNyVP2F-an3kKd396uql6K	vLAN9S_XEQ5hRs0mKtrHII	IzkuC3
	-1-10-8	4-0-0	1		11-0-0	0		14-0-0	
	1-10-8	4-0-0			7-0-0)	·	3-0-0	



			4-0-0 4-0-0			7-6-0 3-6-0	-		11- 3-6	0-0 S-0		14-0-0 3-0-0	14-0-3 0-0-3
Plate Offse	ets (X,Y)	[2:0-1-14,0-6-14], [2:0-3-6				3-0-0			J-(5-0		3-0-0	0-0-3
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	0.76	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.11	6-7	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 52 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) 6=Mechanical, 2=0-3-8

Max Horz 2=124(LC 11)

Max Uplift 6=-143(LC 12), 2=-222(LC 8) Max Grav 6=615(LC 1), 2=764(LC 1)

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

TOP CHORD 2-3=-1206/401, 3-4=-1202/355

BOT CHORD 2-8=-476/1124, 7-8=-479/1128, 6-7=-348/968

4-6=-1089/435, 4-7=-15/398 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 13-10-4 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) Provide adequate drainage to prevent water ponding.
- 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 143 lb uplift at joint 6 and 222 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

February 15,2021

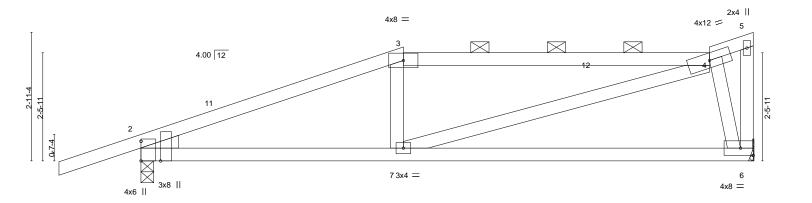
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
						I44815412
JOBS	E3	Roof Special	1		1	
					Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.240 s M	lar 9 2020 MiTek Industries, Inc. Mon Feb 15 12	2:50:35 2021 Page 1
			ID:gEKkeJ3K1	?su6kS1R	PQ3TNyVP2F-2zd6Xz4ntByckUUXj4ghWkWAZp	T7Al6vZXaqllzkuC2
-1-10-8	1	6-0-0	•		13-0-0	14-0-0
1-10-8		6-0-0			7-0-0	1-0-0



DI . 0"	. 0/10	-	6-0							8-0-0		0-0-3
Plate Offs	sets (X,Y)	[2:0-5-6,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	0.66	Vert(LL)	-0.11	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.23	6-7	>734	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	k-AS						Weight: 51 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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) 6=Mechanical, 2=0-3-8

Max Horz 2=124(LC 11)

Max Uplift 6=-143(LC 12), 2=-222(LC 8) Max Grav 6=615(LC 1), 2=764(LC 1)

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

TOP CHORD 2-3=-1131/346, 3-4=-1031/365 BOT CHORD 2-7=-418/1025, 6-7=-131/327 4-7=-310/738, 4-6=-823/400 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5. Interior(1) 0-10-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-10-4 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) Provide adequate drainage to prevent water ponding.
- 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 143 lb uplift at joint 6 and 222 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

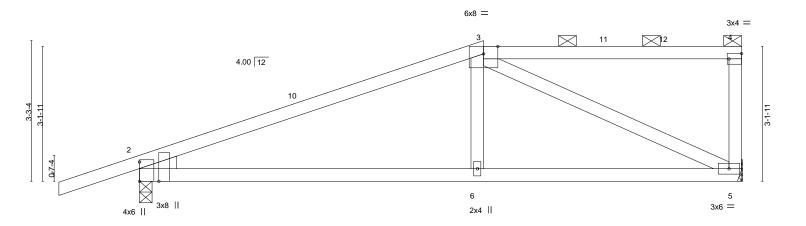
Rigid ceiling directly applied.

February 15,2021



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
					I44815413	
JOBS	E4	Half Hip	1	1		
					Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	240 s Mar	9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:35 2021 Page 1	
		ID:gEKI	keJ3K1?su	6kS1RPQ	3TNyVP2F-2zd6Xz4ntByckUUXj4ghWkWCPpT2ACjvZXaqllzkuC2	
-1-10-8	-1-10-8 8-0-0			1	14-0-0	
1-10-8		8-0-0	6-0-0			

14-ρ-5



		ı		8-0-0				1			6-0-0	0-0-5
Plate Off	sets (X,Y)	[2:0-5-6,Edge], [4:Edge,0)-1-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.08	6-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	6-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-AS						Weight: 49 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) 5=Mechanical, 2=0-3-8

Max Horz 2=135(LC 11)

Max Uplift 5=-141(LC 8), 2=-221(LC 8) Max Grav 5=615(LC 25), 2=764(LC 25)

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

TOP CHORD 2-3=-947/284

BOT CHORD 2-6=-374/830, 5-6=-376/822 **WEBS** 3-6=0/301, 3-5=-864/372

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 13-10-4 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

8-0-0

- 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 141 lb uplift at joint 5 and 221 lb uplift at joint 2.
- 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.



14-0-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

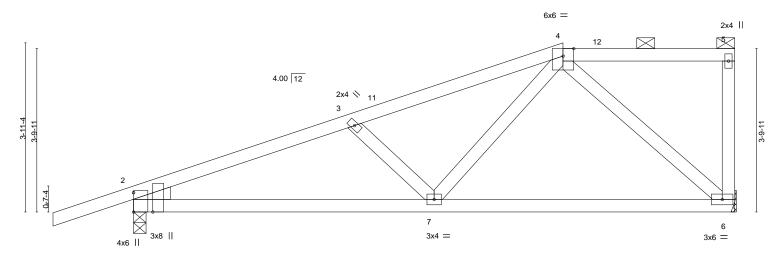
February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815414 **JOBS** E5 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:36 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-X9BUIJ5PdV4TMe3jHnBw3y3SnDorvlT3oBKOqBzkuC1 10-0-0 1-10-8 4-10-4 4-0-0

Scale = 1:26.8

0-0-7



		7-0-0	7-0-0	0-0-7
Plate Offsets (X,Y)	[2:0-5-6,Edge]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.25	DEFL. in (loc) I/defl L/d Vert(LL) -0.05 6-7 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.40 WB 0.30	Vert(CT) -0.11 6-7 >999 180 Horz(CT) 0.02 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 53 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Left: 2x4 SPF No.2

REACTIONS. 6=Mechanical, 2=0-3-8 (size)

Max Horz 2=164(LC 11)

Max Uplift 6=-144(LC 8), 2=-218(LC 8) Max Grav 6=615(LC 1), 2=764(LC 1)

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

TOP CHORD 2-3=-1116/316, 3-4=-878/240 **BOT CHORD** 2-7=-491/1013, 6-7=-277/487

WEBS 3-7=-322/210, 4-7=-102/464, 4-6=-628/325

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 10-0-0, Exterior(2E) 10-0-0 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 6 and 218 lb uplift at joint 2.
- 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.



14-0-0

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

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals, and

February 15,2021





6-1-12

6-1-12

12-0-0

5-10-4

12-0-0

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

Rigid ceiling directly applied.

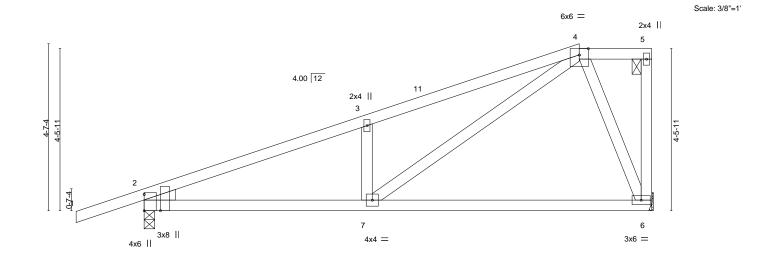
14-0-0

2-0-0

14-0-0

Structural wood sheathing directly applied, except end verticals, and

14-0-9



	<u>'</u>	6-1-12	<u>'</u>	5-10-4	2-0-0 0-0-9
Plate Offsets (X,Y)	[2:0-5-6,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 0.31	Vert(LL)	-0.10 6-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT)	-0.20 6-7 >821 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.28	Horz(CT)	0.01 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,		Weight: 56 lb FT = 20%
DODL 10.0	Code 11(C2010/11 12014	Wattix-AG			Weight. 30 lb 1 1 = 20 /6

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=194(LC 11)

1-10-8

Max Uplift 6=-148(LC 8), 2=-214(LC 8) Max Grav 6=615(LC 1), 2=764(LC 1)

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

TOP CHORD 2-3=-1094/242, 3-4=-1099/325

BOT CHORD 2-7=-429/984

WEBS 3-7=-394/246, 4-7=-307/907, 4-6=-580/361

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 12-0-0, Exterior(2E) 12-0-0 to 13-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 6 and 214 lb uplift at joint 2.
- 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.

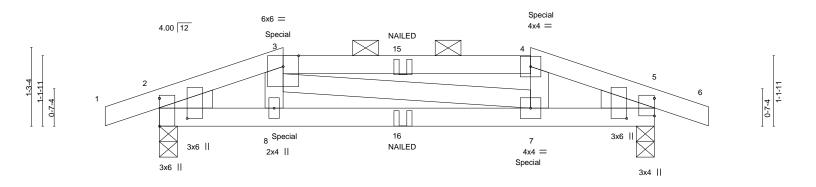


February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815416 F1 **JOBS** Hip Girder Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-TYIEA_6f96KBbyD6PCDO8N8mQ1WSNjLLFUpVu4zkuC? 6-0-0 8-0-0 8-10-8 0-10-8 2-0-0 4-0-0 2-0-0 0-10-8

Scale = 1:18.6



	<u> </u>		0-0 0-0	-		6-0-0 4-0-0			-		-0-0 -0-0	
Plate Offsets (X	Y) [2:0-3-14,0-5-6],	[5:0-3-1	4,0-5-6]									
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	0.37	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
ΓCDL 10.0	Lumber D	OL	1.15	BC	0.26	Vert(CT)	-0.04	7-8	>999	180		
BCLL 0.0	Rep Stres	s Incr	NO	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IR0	2018/TI	PI2014	Matri	x-MP						Weight: 29 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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=-17(LC 26)

Max Uplift 2=-134(LC 4), 5=-134(LC 5) Max Grav 2=434(LC 1), 5=434(LC 1)

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

TOP CHORD 2-3=-643/158, 3-4=-596/158, 4-5=-643/156 **BOT CHORD** 2-8=-132/600, 7-8=-136/596, 5-7=-121/599

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 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.
- 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) 36 lb down and 64 lb up at 2-0-0, and 36 lb down and 64 lb up at 6-0-0 on top chord, and 22 lb down and 12 lb up at 2-0-0, and 22 lb down and 12 lb up at 5-11-4 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

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 9-12=-20

Concentrated Loads (lb)

Vert: 8=-8(B) 7=-8(B) 16=-9(B)



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

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

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

February 15,2021



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 #140/MO 144815417 JOBS F2 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:39 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-xksdNK7HwQS2D6nlywldhah_MRuF6AQVU8Y2RWzkuC_ 8-10-8 8-0-0 0-10-8 4-0-0 4-0-0 0-10-8

Scale = 1:18.0

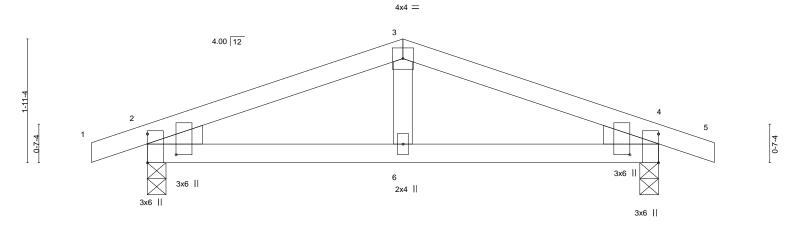


Plate Offsets (X,Y)		-0-0	4-0-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.16 BC 0.16 WB 0.03	Vert(LL) -0.01 6-12 >999 240 Vert(CT) -0.02 6-12 >999 180 Horz(CT) 0.00 2 n/a n/a	MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	. ,	Weight: 25 lb FT = 20%

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, Right: 2x4 SPF No.2

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

Max Horz 2=29(LC 16)

Max Uplift 2=-105(LC 8), 4=-105(LC 9) Max Grav 2=421(LC 1), 4=421(LC 1)

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

TOP CHORD 2-3=-510/338, 3-4=-510/338 **BOT CHORD** 2-6=-231/447, 4-6=-231/447

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-11, Interior(1) 7-1-11 to 8-10-8 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 105 lb uplift at joint 2 and 105 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815418 **JOBS** F3 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:40 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-PwQ?ag8vhkavqGMUWdGsDoE94qEWrdhejolbyyzkuBz 0-10-8 4-0-0 3-7-12

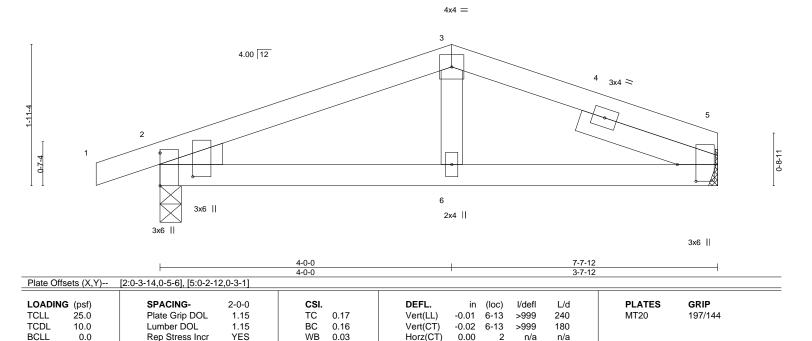
Scale = 1:15.8

FT = 20%

Weight: 24 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SPF No.2

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

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

Max Horz 2=36(LC 12)

Max Uplift 5=-62(LC 9), 2=-103(LC 8) Max Grav 5=341(LC 1), 2=409(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-3=-476/323, 3-5=-437/333 **BOT CHORD** 2-6=-253/415, 5-6=-253/415

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-2, Interior(1) 7-1-2 to 7-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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 62 lb uplift at joint 5 and 103 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

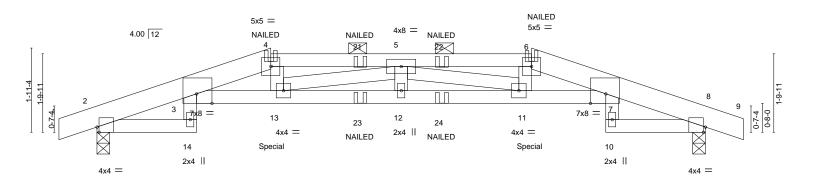


February 15,2021



Job Truss Truss Type Qty Ply SUMMIT/WOODSIDE RIDGE #140/MO 144815419 **JOBS** G1 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:41 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-t7_No09YS1imSPxh4Ln5m?m8JEOxa4roxS19UOzkuBy -0-10-8 0-10-8 11-8-8 10-0-0 14-0-0 2-3-8 1-8-8 3-0-0 3-0-0 1-8-8 2-3-8 0-10-8

Scale = 1:26.5



<u> </u>	2-3-8 2-3-8	4-0-0 1-8-8	7-0-0 3-0-0	10-0-0 3-0-0		11-8-8 1-8-8	14-0-0 2-3-8	
Plate Offsets (X,Y)	[2:0-0-9,Edge], [3:0-4-							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018	1.15 NO	CSI. TC 0.90 BC 0.91 WB 0.04 Matrix-MS	DEFL. in Vert(LL) -0.19 Vert(CT) -0.34 Horz(CT) 0.19	(loc) I/det 12 >88° 12 >498 8 n/s	1 240 3 180	PLATES MT20 Weight: 102 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 4-6: 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-6. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=28(LC 33)

Max Uplift 2=-322(LC 4), 8=-322(LC 5) Max Grav 2=1071(LC 1), 8=1071(LC 1)

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

TOP CHORD 3-16=-470/162, 3-4=-3949/1154, 4-5=-4022/1186, 5-6=-4022/1165, 6-7=-3949/1134,

7-8=-470/162

BOT CHORD 3-14=-62/257, 3-13=-1140/4001, 12-13=-1254/4456, 11-12=-1254/4456, 7-11=-1098/4001,

7-10=-58/257

WEBS 5-13=-540/166, 5-11=-540/162

WEBS

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 2 and 322 lb uplift at ioint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 272 lb down and 134 lb up at 4-0-0, and 272 lb down and 134 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 15,2021

COARIGASE(S)geStandard

M 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 #140/MO
JOBS	G1	Hip Girder	1	2	I4481541

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:41 2021 Page 2 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-t7_No09YS1imSPxh4Ln5m?m8JEOxa4roxS19UOzkuBy

LOAD CASE(S) Standard

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

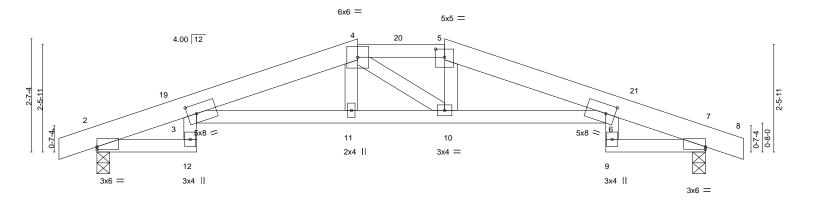
Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-9=-70, 14-15=-20, 3-7=-20, 10-18=-20

Concentrated Loads (lb)

Vert: 4=-28(B) 6=-28(B) 13=-272(B) 11=-272(B) 21=-28(B) 22=-28(B) 23=-53(B) 24=-53(B)



Job	Truss	Truss Type		Qty	Ply	SUMMIT/WOODSIDE	RIDGE #140/MO	
								144815420
JOBS	G2	Hip		1	1			
						Job Reference (optiona	I)	
Builders FirstSource (Valley	Center), Valley Center, F	(S - 67147,		8.	240 s Mar	9 2020 MiTek Industrie	s, Inc. Mon Feb 15 12:50:	42 2021 Page 1
			ID:X_ł	n1Y?HVzľ	NtCEdCgm	nvZOkBz3guD-LJYI?M9A	DLrd4ZWte2lKIDJJ7elOJ	X1xA6ni0rzkuBx
0-10-8	2-3-8	6-0-0	8-0-0	1		11-8-8	14-0-0	14-10-8
0-10-8	2-3-8	3-8-8	2-0-0			3-8-8	2-3-8	0-10-8



		2-3-8	6-0	•	8-0-0		11-8-8		14-0-0	
	'	2-3-8	3-8	-8	2-0-0		3-8-8		2-3-8	
Plate Offsets	(X,Y)	[2:0-0-0,0-0-12], [3:0-2-	-8,0-2-8], [5:0-2-8	3,0-2-4], [6:0-2-8,0-2	2-8], [7:Edge,0-0-12]					
LOADING (p	osf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc	c) I/defl	L/d	PLATES	GRIP
TCLL 2	5.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.19 6-1	0 >863	240	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.35 3-1	1 >473	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.23	7 n/a	n/a		
BCDL 1	0.0	Code IRC2018/	TPI2014	Matrix-AS					Weight: 51 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-7-6 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

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

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

Max Horz 2=-40(LC 13)

Max Uplift 2=-162(LC 8), 7=-162(LC 9) Max Grav 2=691(LC 1), 7=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $3-14=-305/140,\ 3-4=-1552/585,\ 4-5=-1507/580,\ 5-6=-1552/549,\ 6-7=-305/138$ TOP CHORD

3-11=-503/1510, 10-11=-505/1507, 6-10=-454/1511 BOT CHORD

NOTES-

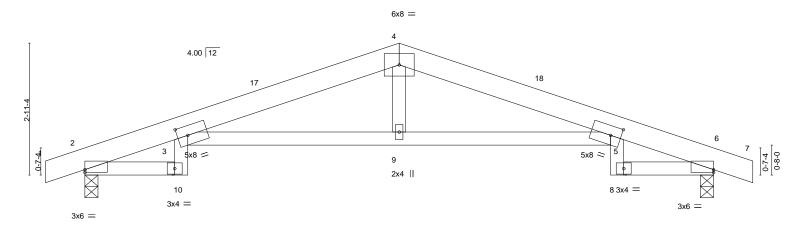
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 6-0-0, Exterior(2E) 6-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 14-10-8 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 162 lb uplift at joint 2 and 162 lb uplift at joint 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15,2021



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RI	DGE #140/MO	
							I44815421
JOBS	G3	Roof Special	2	1			
					Job Reference (optional)		
Builders FirstSource (Valley	Center), Valley Center, k	(S - 67147,	8.	240 s Mar	9 2020 MiTek Industries,	Inc. Mon Feb 15 12:50:43 2	2021 Page 1
		ID:	:X_h1Y?HVzNtCI	EdCgmvZC	DkBz3guD-pV67DiAo_fzUh	ij53BlpZrQsUs25s2_F4PmV	VFZHzkuBw
0-10-8 _ 2-	-3-8	7-0-0		11-8-	8	14-0-0	14-10-8
0-10-8 2-	-3-8	4-8-8		4-8-8	3	2-3-8	0-10-8



		2-3-8		7-0-0	1		11-8	-8		14-0-0	
	1	2-3-8		4-8-8	l		4-8-	-8		2-3-8	ı
Plate Offsets	(X,Y)	[2:0-0-0,0-0-12], [3	3:0-2-12,0-2-8], [5:0-2	-12,0-2-8], [6:Edge,0-0-12	?]						
LOADING (p	sf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25	5.Ó	Plate Grip I	OOL 1.15	TC 0.90	Vert(LL)	-0.21	5-9	>806	240	MT20	197/144
TCDL 10	0.0	Lumber DC	L 1.15	BC 0.82	Vert(CT)	-0.38	5-9	>439	180		
BCLL (0.0	Rep Stress	Incr YES	WB 0.04	Horz(CT)	0.25	6	n/a	n/a		
BCDL 10	0.0	Code IRC2	2018/TPI2014	Matrix-AS						Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=46(LC 16)

Max Uplift 2=-155(LC 8), 6=-155(LC 9) Max Grav 2=691(LC 1), 6=691(LC 1)

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

TOP CHORD 3-12=-305/134, 3-4=-1496/491, 4-5=-1496/493, 5-6=-305/130

BOT CHORD 3-9=-389/1448, 5-9=-389/1448

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 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 155 lb uplift at joint 2 and 155 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 15,2021



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #140/MO	
						144815422
JOBS	G4	Common	1	1		
					Job Reference (optional)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	240 s Mar	9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:44 20	21 Page 1
		ID:	X_h1Y?HVzNtCE	dCgmvZOl	kBz3guD-ligWQ2BQly5LJtgGlTKoOeOmSSXVnRBEdQ0	Gp5jzkuBv
-0-10-8	7-0	-0		•	14-0-0	14-10-8
0-10-8	7-0	-0			7-0-0	0-10-8

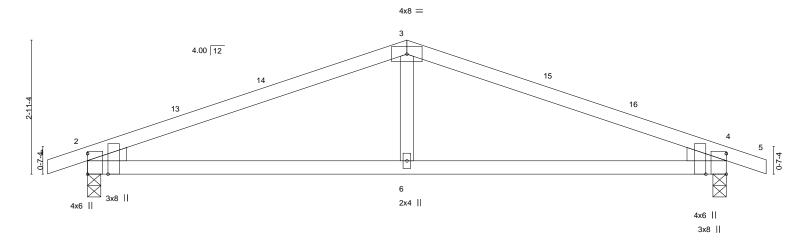


Plate Offs	sets (X,Y)	[2:0-5-6,Edge], [4:0-5-6,E	7-0-0 Edge]							7-0-0		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.08	6-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	6-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-AS						Weight: 40 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

14-0-0

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

Max Horz 2=46(LC 16)

Max Uplift 2=-155(LC 8), 4=-155(LC 9) Max Grav 2=691(LC 1), 4=691(LC 1)

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

TOP CHORD 2-3=-1060/367, 3-4=-1060/367 BOT CHORD 2-6=-255/945, 4-6=-255/945

WEBS 3-6=0/281

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 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.

7-0-0

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2 and 155 lb uplift at
- 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.



February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815423 **JOBS** G5 Common Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-muDueOC2WGDBx1FSJAr1wrxxGrtqWs8Ns4?MdAzkuBu 11-11-0 0-10-8 4-11-0

Scale = 1:20.6

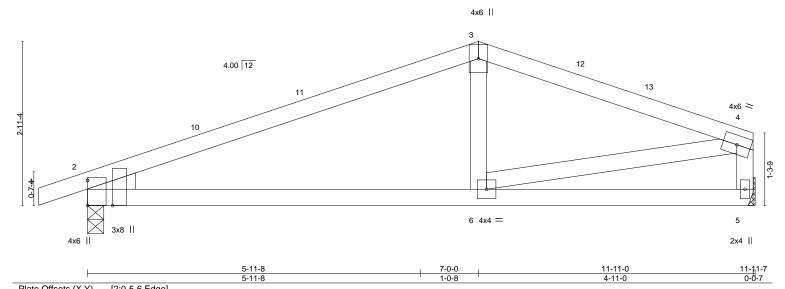


Plate Offsets (X,Y) [2:0-5-6,Edge]					
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.06 6-9 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.12 6-9 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.02 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 39 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) 5=Mechanical, 2=0-3-8

Max Horz 2=51(LC 16)

Max Uplift 5=-92(LC 9), 2=-142(LC 8) Max Grav 5=527(LC 1), 2=593(LC 1)

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

TOP CHORD 2-3=-769/304, 3-4=-752/327, 4-5=-498/240

BOT CHORD 2-6=-287/669 **WEBS** 4-6=-247/597

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 11-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 92 lb uplift at joint 5 and 142 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815424 JOBS J1 Jack-Open 5 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-muDueOC2WGDBx1FSJAr1wrxyAruzWuzNs4?MdAzkuBu -1-10-8 6-0-0 1-10-8 6-0-0 Scale = 1:20.0 2x4 || 0-4-3 4.00 12 2x4 || 6

			6-0-0 6-0-0	 -
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.40	DEFL. in (loc) I/defl L/d Vert(LL) -0.06 6-7 >999 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.33 WB 0.03	Vert(CT) -0.12 6-7 >578 180	W120 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.00 n/a n/a	Weight: 20 lb FT = 20%

LUMBER-

2x4 SPF No.2 2x4 SPF No.2

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals.

2x4 ||

Rigid ceiling directly applied.

REACTIONS. 7=0-3-8, 4=Mechanical, 6=Mechanical (size)

Max Horz 7=-10(LC 10), 4=110(LC 8) Max Uplift 7=-184(LC 8), 6=-31(LC 12) Max Grav 7=418(LC 1), 6=246(LC 1)

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

TOP CHORD 2-7=-362/323

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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 184 lb uplift at joint 7 and 31 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

2x4 ||

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.



February 15,2021





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815425 JOBS J2 Jack-Open 3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-3E8X6nHRsQ5CG6HoD8TgiKj3bgE3f2HPTgCENGzkuBn 6-0-0 1-10-8 2-9-8 3-2-8 Scale = 1:18.8 0-4-3 4.00 12 3x8 = 10 2x4 || 4x6 = 0-8-0 5 3x6 = 2x4 6-0-0 Plate Offsets (X,Y)-- [7:Edge,0-1-8]

		1 3-71		
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 0.71	Vert(LL) 0.13 6 >525 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.20 7 >356 180
BCLL	0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01 5 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 19 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

3-7: 2x6 SPF No.2

WEBS 2x4 SPF No.2

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

Max Horz 4=-346(LC 1), 8=346(LC 1) Max Uplift 8=-206(LC 8), 5=-2(LC 12) Max Grav 8=583(LC 1), 5=95(LC 3)

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

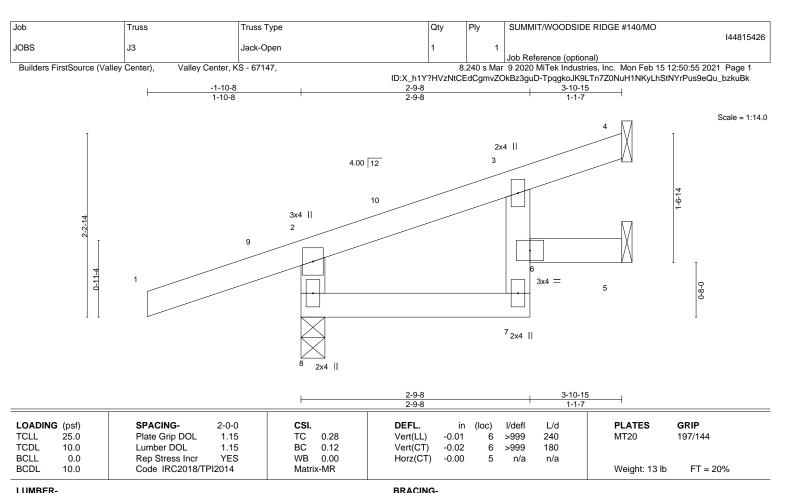
TOP CHORD 3-4=-396/365 **BOT CHORD** 7-8=-346/213 **WEBS** 2-8=-444/322

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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 206 lb uplift at joint 8 and 2 lb uplift at joint 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.



February 15,2021





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

WEBS

2x4 SPF No 2 2x4 SPF No.2 2x4 SPF No.2

8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=114(LC 1), 4=-114(LC 1) Max Uplift 8=-153(LC 8), 5=-11(LC 12) Max Grav 8=406(LC 1), 5=69(LC 1)

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

TOP CHORD 2-8=-347/271

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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
- 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 153 lb uplift at joint 8 and 11 lb uplift at joint 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.



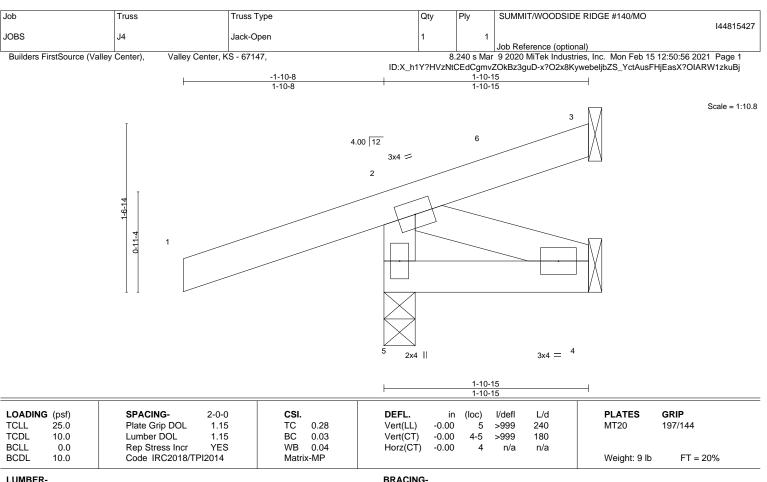
Structural wood sheathing directly applied or 3-10-15 oc purlins,

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

except end verticals.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 5=127(LC 8), 3=-81(LC 8) Max Uplift 5=-76(LC 8), 4=-45(LC 8) Max Grav 5=258(LC 1), 4=42(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 76 lb uplift at joint 5 and 45 lb uplift at ioint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

February 15,2021



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

ANSI/TP11 Quality Criteria, 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 #140/MO 144815428 **JOBS** J5 Monopitch Supported Gable

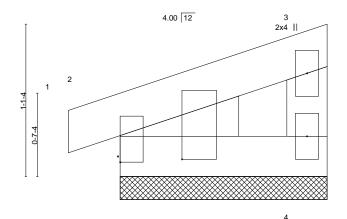
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:56 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-x?O2x8KywebeljbZS_YctAuw6HjTas8?OIARW1zkuBj

1-6-0 0-4-8 1-6-0

Scale = 1:8.3



2x4 | 3x6 |

Matrix-P

2x4 ||

Plate Offsets (X,Y)--[2:Edge,0-0-3], [2:0-0-4,0-5-9] SPACING-**PLATES** LOADING (psf) CSI. in (loc) I/defI L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) -0.00 120 197/144 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=1-6-0, 2=1-6-0

Max Horz 2=30(LC 9)

Max Uplift 4=-17(LC 12), 2=-28(LC 8) Max Grav 4=58(LC 1), 2=90(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C 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) Gable studs spaced at 1-4-0 oc.
- 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 17 lb uplift at joint 4 and 28 lb uplift at joint 2.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



Weight: 6 lb

Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.

February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815429 **JOBS** J6 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:57 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-PCyQ9ULahyjUNt9l0i3rPNR46h3HJJO8dyv?2TzkuBi 2-10-15 2-10-15 0-10-8 Scale = 1:10.7 8 4.00 12 0-7-4 3x6 || 3x6 II 2-10-15 2-10-15 Plate Offsets (X,Y)--[2:0-3-14,0-5-6] SPACING-(loc) L/d **PLATES** GRIP LOADING (psf) CSI. DEFL. in I/defI 240 TCLL 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.00 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

2

n/a

n/a

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

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 3=-203(LC 1), 2=203(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 2=-98(LC 8)

Max Grav 4=44(LC 3), 2=288(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-3 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

WB

Matrix-MP

0.00

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

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



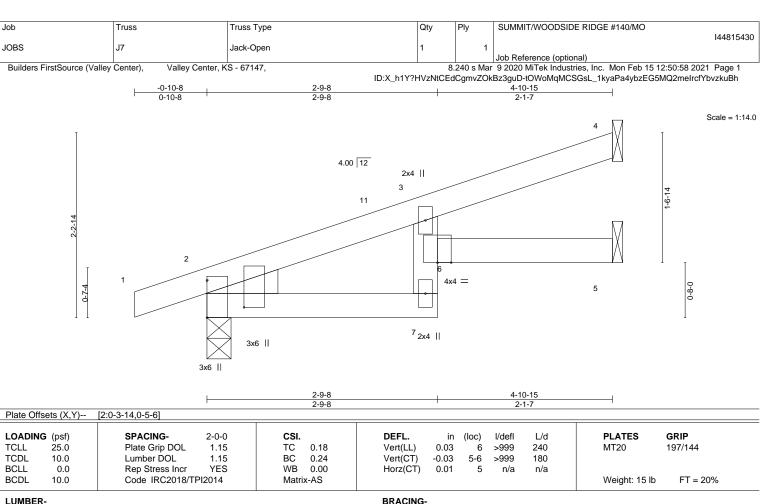
FT = 20%

Weight: 9 lb

Structural wood sheathing directly applied or 2-10-15 oc purlins.

February 15,2021





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 4=-342(LC 1), 2=342(LC 1) Max Uplift 5=-10(LC 12), 2=-126(LC 8) Max Grav 5=77(LC 3), 2=421(LC 1)

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

TOP CHORD 2-3=-557/432, 3-4=-370/328

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-3 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
- 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 10 lb uplift at joint 5 and 126 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

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

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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815431 JOBS J8 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:58 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-tOWoMqMCSGsL_1kyaPa4ybzBR5Nm2melrcfYbvzkuBh 3-10-15 1-10-8 3-10-15 Scale = 1:14.0 4.00 12 3x4 || 2 0-11-4 3-10-15 3-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 4-5 25.0 Plate Grip DOL 1.15 TC Vert(LL) 0.01 >999 240 197/144 **TCLL** 0.36 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.01 4-5 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

n/a

except end verticals.

n/a

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

Weight: 12 lb

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

FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

BOT CHORD WEBS 2x4 SPF No.2

0.0

10.0

5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=220(LC 1), 3=-220(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 5=-180(LC 8)

Max Grav 5=461(LC 1), 4=59(LC 3)

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

TOP CHORD 2-5=-401/353, 2-3=-290/295

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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

WB

Matrix-MR

0.00

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

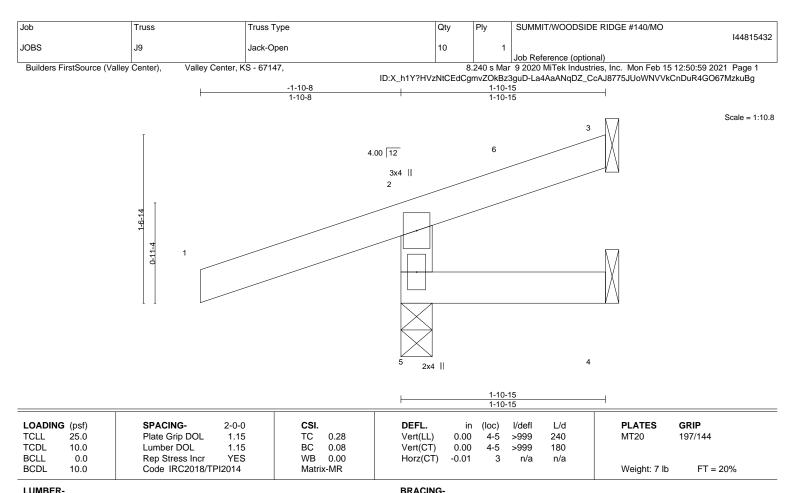
YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 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.



February 15,2021





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 8)

Max Uplift 5=-134(LC 8), 3=-14(LC 12), 4=-6(LC 1) Max Grav 5=302(LC 1), 3=5(LC 22), 4=26(LC 3)

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

TOP CHORD 2-5=-261/228

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 134 lb uplift at joint 5, 14 lb uplift at joint 3 and 6 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815433 JOBS J9A Jack-Open 2 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-La4AaANqDZ_CcAJ8775JUoWQaVk9nDuR4GO67MzkuBg 2-10-15 2-10-15 0-10-8 Scale = 1:10.7 8 4.00 12 1-2-11 0-7-4 3x6 || 3x6 || 2-10-15 2-10-15 Plate Offsets (X,Y)--[2:0-3-14,0-5-6] SPACING-DEFL. L/d **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defI 240 TCLL 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 0.01 4-7 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.01 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 9 lb **BRACING-**TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.

BOT CHORD

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

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=55(LC 8)

Max Uplift 3=-35(LC 12), 4=-3(LC 12), 2=-60(LC 8) Max Grav 3=78(LC 1), 4=50(LC 3), 2=199(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-10-3 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
- 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 35 lb uplift at joint 3, 3 lb uplift at joint 4 and 60 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





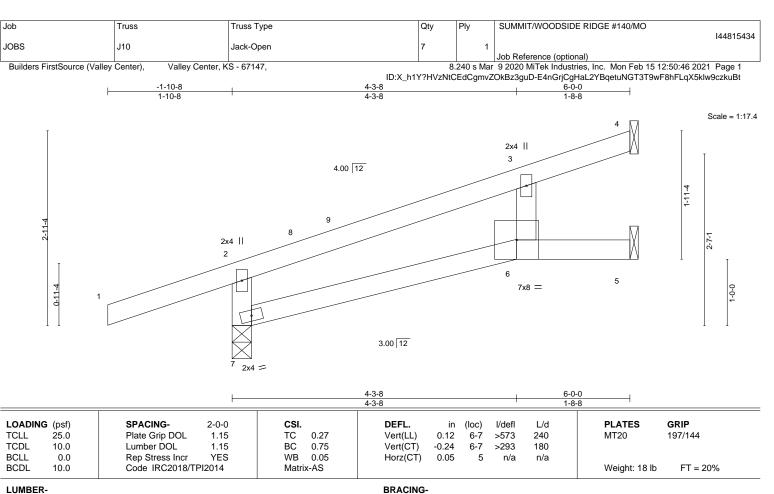


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, 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

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS.

4=Mechanical, 5=Mechanical, 7=0-3-8 (size)

Max Horz 4=123(LC 8), 7=31(LC 1) Max Uplift 5=-24(LC 12), 7=-190(LC 8) Max Grav 5=222(LC 1), 7=441(LC 1)

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

WEBS 2-7=-310/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 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) 7 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 24 lb uplift at joint 5 and 190 lb uplift at joint 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



February 15,2021

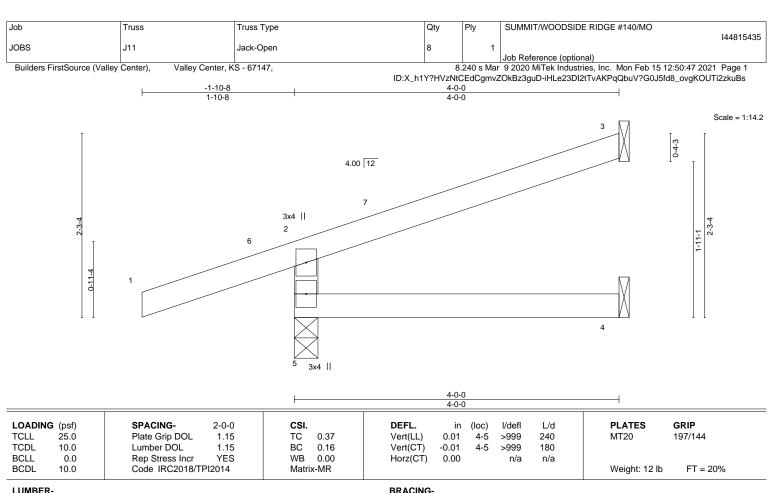


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=229(LC 1), 3=-229(LC 1)

Max Uplift 5=-182(LC 8)

Max Grav 5=468(LC 1), 4=60(LC 3)

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

TOP CHORD 2-5=-407/356, 2-3=-301/305

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 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.



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

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

except end verticals.

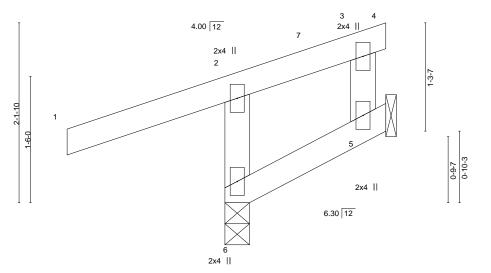
February 15,2021





16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815436 **JOBS** J13 Jack-Closed Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:47 2021 Page 1 ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-iHLe23DI2tTvAKPqQbuV?G0KXff4_ovgKOUTi2zkuBs 1-10-15 1-10-8 1-10-15



1-10-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP in (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 240 197/144 **TCLL** 0.28 6 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 6 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 9 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-10-15

except end verticals.

LUMBER-

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

REACTIONS. 6=0-3-8, 5=Mechanical (size)

Max Horz 6=76(LC 9) Max Uplift 6=-138(LC 8), 5=-48(LC 9) Max Grav 6=304(LC 1), 5=23(LC 3)

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

TOP CHORD 2-6=-267/247

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 6 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 138 lb uplift at joint 6 and 48 lb uplift at joint 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.



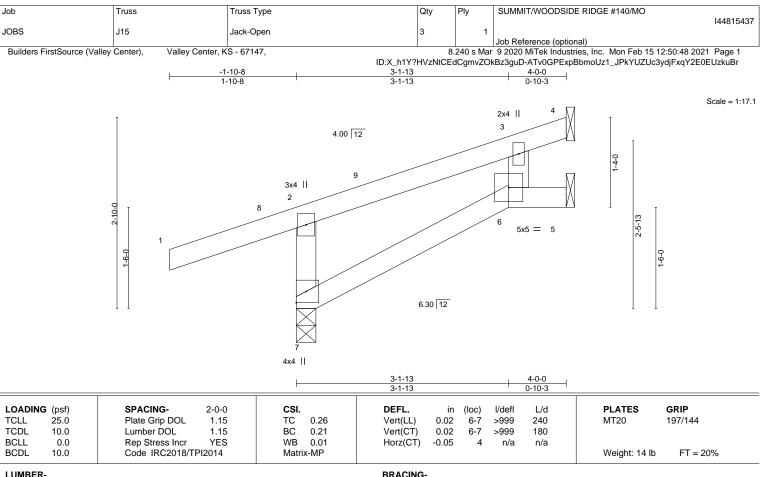
Structural wood sheathing directly applied or 1-10-15 oc purlins,

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

Scale = 1:13.7







TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

2x4 SPF No.2

REACTIONS.

7=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 7=78(LC 9) Max Uplift 7=-115(LC 8), 4=-43(LC 12), 5=-12(LC 12) Max Grav 7=350(LC 1), 4=79(LC 1), 5=54(LC 1)

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

TOP CHORD 2-7=-298/226

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 7, 43 lb uplift at joint 4 and 12 lb uplift at joint 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 4-0-0 oc purlins,

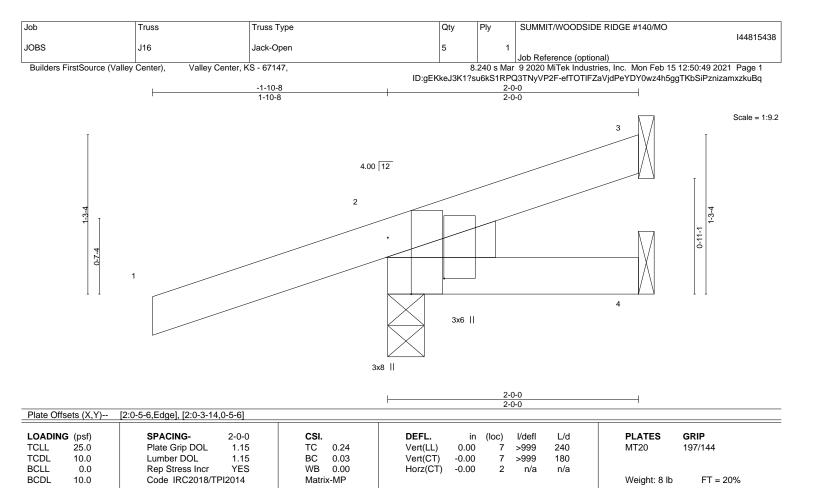
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

February 15,2021







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x4 SPF No.2

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

Max Horz 2=61(LC 8)

Max Uplift 3=-14(LC 12), 2=-129(LC 8) Max Grav 3=25(LC 1), 4=25(LC 3), 2=283(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-11-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 14 lb uplift at joint 3 and 129 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





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



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815439 JOBS J16A Jack-Open 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:49 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-efTOTIFZaVjdPeYDY0wz4h5jcTKZSiPznizamxzkuBq 2-0-0 0-10-8 2-0-0 Scale = 1:9.2 4.00 12 2 -3-4 0-11-1 3x6 || 3x6 || 2-0-0 Plate Offsets (X,Y)--[2:0-3-14,0-5-6] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

0.00

>999

>999

n/a

2

240

180

n/a

MT20

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

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

Weight: 7 lb

197/144

FT = 20%

TCDL 10.0 Lumber DOL **BCLL** 0.0 Rep Stress Incr

25.0

10.0

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

WEDGE

Left: 2x4 SPF No.2

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

Plate Grip DOL

Code IRC2018/TPI2014

Max Horz 2=43(LC 8)

Max Uplift 3=-22(LC 12), 4=-4(LC 12), 2=-56(LC 8) Max Grav 3=49(LC 1), 4=33(LC 3), 2=164(LC 1)

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

NOTES-

TCLL

BCDL

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 3, 4 lb uplift at joint 4 and 56 lb uplift at joint 2.

TC

BC

WB

Matrix-MP

0.05

0.03

0.00

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.



February 15,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815440 JOBS J17 Jack-Open 3 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:50 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-6s1nh5GBKorU1o7P6kRCdverPsgtB9f60Mj7lNzkuBp 1-10-8 1-10-15 Scale = 1:9.0 4.00 12 2 -2-14 3x6 II 3x8 II 1-10-15 1-10-15 Plate Offsets (X,Y)--[2:0-5-6,Edge], [2:0-3-14,0-5-6] LOADING (psf) SPACING-L/d **PLATES** GRIP CSI. DEFL. in (loc) I/defI 240 Vert(LL) 0.00 >999 197/144 MT20

Plate Grip DOL TCLL 25.0 1.15 TC 0.24 TCDL 10.0 Lumber DOL 1.15 BC 0.03 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-MP

BRACING-

Vert(CT)

Horz(CT)

0.00

-0.00

>999

n/a

2

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-10-15 oc purlins.

Weight: 8 lb

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

180

n/a

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x4 SPF No.2

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

Max Horz 2=60(LC 8)

Max Uplift 3=-12(LC 12), 4=-1(LC 1), 2=-130(LC 8) Max Grav 3=21(LC 1), 4=23(LC 3), 2=282(LC 1)

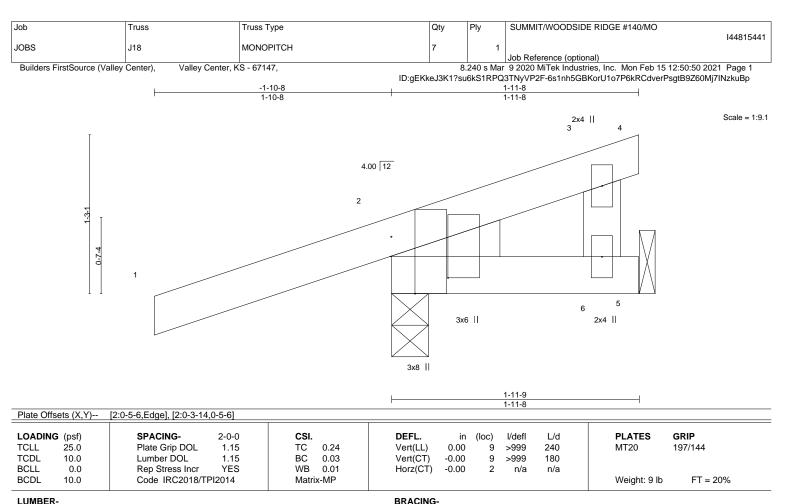
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 12 lb uplift at joint 3, 1 lb uplift at joint 4 and 130 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 20%





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) 5=Mechanical, 2=0-3-8

Max Horz 2=60(LC 8)

Max Uplift 5=-6(LC 12), 2=-129(LC 8) Max Grav 5=41(LC 3), 2=281(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 1-11-8 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
- 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 6 lb uplift at joint 5 and 129 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 15,2021



MiTek

Structural wood sheathing directly applied or 1-11-8 oc purlins.

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815442 JOBS J19 MONOPITCH Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:51 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-a2b9uRGp56zLfyicfRyRA6B09G??wcdGE0ShrpzkuBo 1-10-8 3-11-8 Scale = 1:12.4 2x4 || 4.00 12 2 6 3x6 II 2x4 || 5 3x8 || 3-11-8 Plate Offsets (X,Y)--[2:0-5-6,Edge], [2:0-3-14,0-5-6]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

6-9

6-9

2

-0.01

-0.02

0.00

I/defI

>999

>999

n/a

L/d

240

180

n/a

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

10.0

0.0

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 2=0-3-8, 6=Mechanical Max Horz 2=87(LC 8)

Max Uplift 2=-123(LC 8), 6=-45(LC 12) Max Grav 2=329(LC 1), 6=144(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 3-11-8 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

CSI.

TC

BC

WB

Matrix-MP

0.24

0.10

0.02

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

1.15

1.15

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 45 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



PLATES

Weight: 14 lb

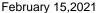
MT20

Structural wood sheathing directly applied or 3-11-8 oc purlins.

GRIP

197/144

FT = 20%





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 #140/MO 144815443 JOBS J20 MONOPITCH 5 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-3E8X6nHRsQ5CG6HoD8TgiKjBvgLEf2tPTgCENGzkuBn 1-10-8 1-10-8 3-11-8 Scale = 1:12.4 2x4 ||

4.00 12 2 0-7-4 6 3x6 || 2x4 || 5 3x8 ||

3-11-8 Plate Offsets (X,Y)--[2:0-5-6,Edge], [2:0-3-14,0-5-6] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL 240 TCLL 1.15 TC 0.24 Vert(LL) -0.01 6-9 >999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) -0.02 6-9 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 2 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

3-11-8

LUMBER-

BCDL

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

10.0

WEDGE Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=87(LC 8)

Max Uplift 2=-123(LC 8), 6=-45(LC 12) Max Grav 2=329(LC 1), 6=144(LC 1)

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 0-10-5, Interior(1) 0-10-5 to 3-11-8 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

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 123 lb uplift at joint 2 and 45 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



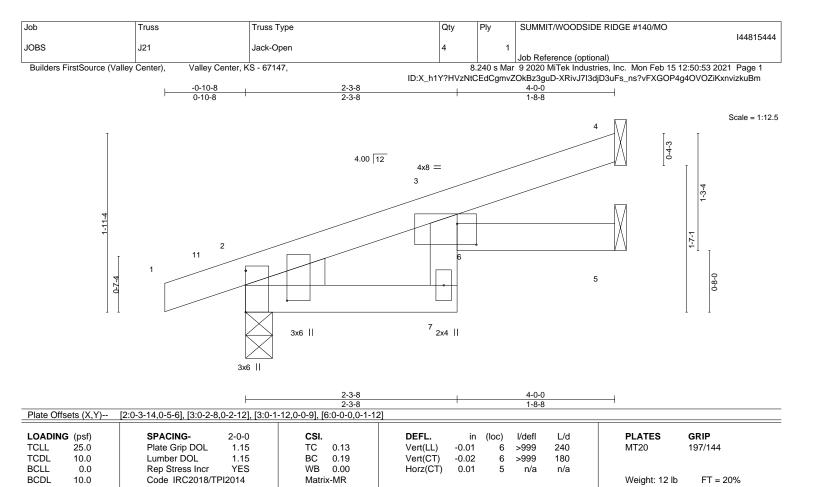
FT = 20%

Weight: 14 lb

Structural wood sheathing directly applied or 3-11-8 oc purlins.

February 15,2021





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=69(LC 8)

Max Uplift 4=-39(LC 12), 5=-13(LC 12), 2=-68(LC 8) Max Grav 4=98(LC 1), 5=73(LC 1), 2=245(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-3, Interior(1) 2-1-3 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4, 13 lb uplift at joint 5 and 68 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815445 JOBS J22 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:50:54 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-?dGHWSJhO1LwWPRBLZW8nlpaLU2o7yeix_hLS8zkuBl 1-10-15 0-10-8 1-10-15 Scale = 1:9.0 4.00 12 0-4-3 2 0-10-11 3x6 II 3x6 || 1-10-15 1-10-15 Plate Offsets (X,Y)--[2:0-3-14,0-5-6] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 7 lb LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=42(LC 8)

Max Uplift 3=-20(LC 12), 4=-4(LC 12), 2=-55(LC 8) Max Grav 3=46(LC 1), 4=31(LC 3), 2=161(LC 1)

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

NOTES-

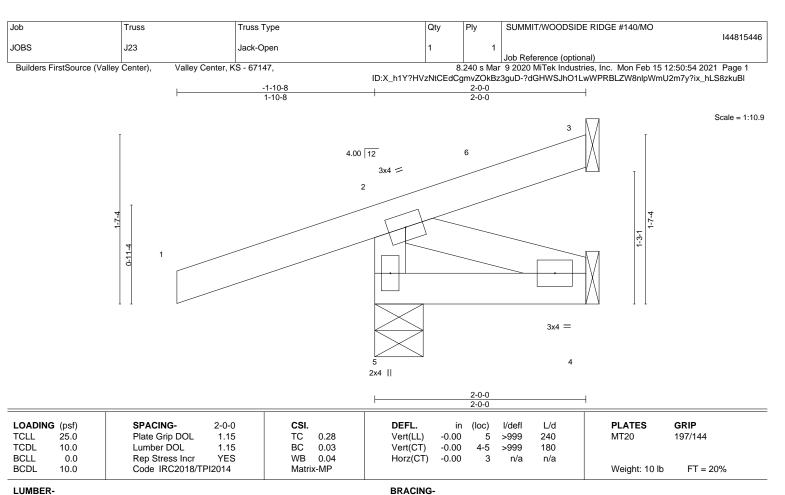
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 20 lb uplift at joint 3, 4 lb uplift at joint 4 and 55 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SPF No.2 2x4 SPF No.2

WEBS 2x4 SPF No.2 REACTIONS.

3=Mechanical, 5=0-5-8, 4=Mechanical (size) Max Horz 5=62(LC 8) Max Uplift 3=-13(LC 1), 5=-131(LC 8), 4=-15(LC 8) Max Grav 3=23(LC 8), 5=302(LC 1), 4=37(LC 3)

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

2-5=-284/236 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-11-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 13 lb uplift at joint 3, 131 lb uplift at joint 5 and 15 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 15,2021



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

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815447 **JOBS** JG1 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:00 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

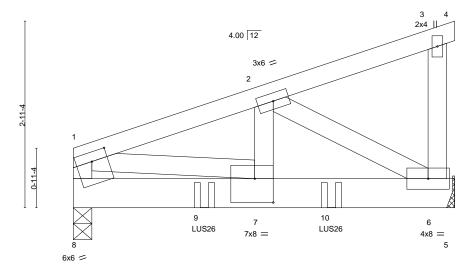
Structural wood sheathing directly applied or 4-10-4 oc purlins,

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

except end verticals.

ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-qndZnWNS_t63EKuKhqdY103a1uyRWb1bJw8ffozkuBf 6-0-0 3-0-0 3-0-0

Scale = 1:18.1



3-0-0 6-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[7:0-3-8,0-4-8], [8:0-3-0,0-1-12], [8:0-1-11,0-0-9]	
---------------------	---	--

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MP						Weight: 28 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=Mechanical

Max Horz 8=108(LC 7)

Max Uplift 8=-187(LC 4), 6=-222(LC 8) Max Grav 8=988(LC 1), 6=1070(LC 1)

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

TOP CHORD 1-8=-797/163, 1-2=-1393/261

BOT CHORD 6-7=-264/1301

1-7=-236/1329, 2-7=-161/955, 2-6=-1497/321 WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 8 and 222 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-20, 5-8=-20 Concentrated Loads (lb)

Vert: 9=-769(B) 10=-775(B)



February 15,2021







Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815448 **JOBS** L1 **GABLE** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:01 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-IzBx_sO5lBEwsUTXFX8naDbmGIR7F5OkYZtCBEzkuBe

9-11-3 9-11-3

> Scale = 1:63.2 4x4 =

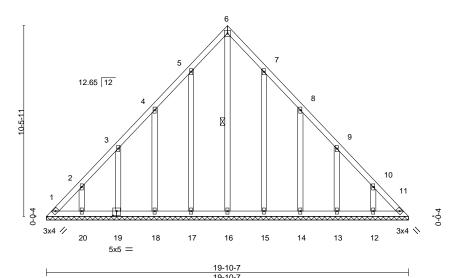


Plate Offsets (X,Y)--[19:0-2-8,0-3-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.07 Vert(LL) 999 MT20 197/144 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.01 11 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 108 lb Matrix-S

LUMBER-

TOP CHORD 2x4 SPF No.2 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

REACTIONS. All bearings 19-10-7.

Max Horz 1=268(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-127(LC 10), 17=-130(LC 12), 18=-135(LC 12),

19=-134(LC 12), 20=-133(LC 12), 15=-127(LC 13), 14=-136(LC 13), 13=-131(LC 13), 12=-131(LC 13) Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17, 18, 19, 20, 15, 14, 13, 12 except 1=258(LC 12)

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

1-2=-373/233, 2-3=-256/189, 10-11=-327/221 TOP CHORD

BOT CHORD 1-20=-169/251, 19-20=-169/251

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 9-11-3, Exterior(2R) 9-11-3 to 12-11-3, Interior(1) 12-11-3 to 19-6-6 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=127, 17=130, 18=135, 19=134, 20=133, 15=127, 14=136, 13=131, 12=131.
- 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.



February 15,2021







Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815449 **JOBS** L2 Lay-In Gable

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:03 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-EMJhPXQLHoUe5odvMyAFfeh6k66Zj_n1?tMJG7zkuBc

10-0-12 10-0-12 10-0-12

> Scale: 3/16"=1 4x4 =

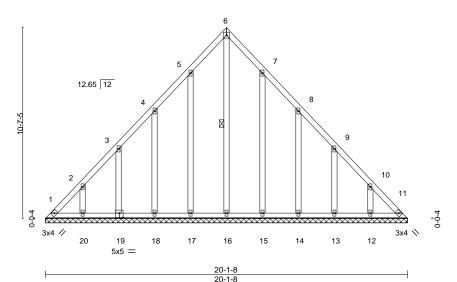


Plate Off	sets (X,Y)	[19:0-2-8,0-3-0]										
LOADIN	· /	SPACING-	2-0-0	CSI.	0.07	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-S						Weight: 110 lb	FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD **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 6-16

REACTIONS. All bearings 20-1-8.

(lb) -Max Horz 1=-272(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-122(LC 10), 17=-129(LC 12), 18=-135(LC 12),

19=-128(LC 12), 20=-136(LC 12), 15=-127(LC 13), 14=-136(LC 13), 13=-130(LC 13), 12=-137(LC 13) Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17, 18, 19, 20, 15, 14, 13, 12 except 1=252(LC 12)

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

TOP CHORD 1-2=-369/231, 10-11=-329/223

BOT CHORD 1-20=-166/253, 19-20=-166/253, 18-19=-167/253, 17-18=-167/253, 16-17=-167/253,

15-16=-167/253, 14-15=-167/253, 13-14=-167/253, 12-13=-167/253, 11-12=-167/253

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 10-0-12, Exterior(2R) 10-0-12 to 13-0-12 , Interior(1) 13-0-12 to 19-9-7 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) 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=122, 17=129, 18=135, 19=128, 20=136, 15=127, 14=136, 13=130, 12=137.
- 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.



February 15,2021



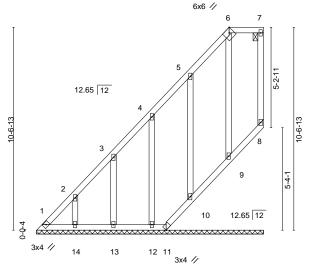
Job Truss Truss Type Qty Ply SUMMIT/WOODSIDE RIDGE #140/MO 144815450 **GABLE JOBS** L3

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

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:03 2021 Page 1 ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-EMJhPXQLHoUe5odvMyAFfeh5X657j?H1?tMJG7zkuBc

11-9-11 10-0-4 1-9-7

Scale = 1:60.0



11-9-11

Plate Offsets (X,Y) [6:0-2-9,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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 68 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. **WEBS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: **OTHERS** 2x4 SPF No.2 6-0-0 oc bracing: 8-9.

REACTIONS. All bearings 11-9-11.

Max Horz 1=322(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 11, 9 except 1=-143(LC 10), 14=-134(LC 12), 13=-131(LC 12),

12=-133(LC 12), 10=-140(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 11, 14, 13, 12, 10, 9 except 1=346(LC 12)

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

TOP CHORD 1-2=-614/589, 2-3=-504/486, 3-4=-386/378, 4-5=-273/275

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 10-0-4, Exterior(2E) 10-0-4 to 11-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) 8, 11, 9 except (jt=lb) 1=143, 14=134, 13=131, 12=133, 10=140.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 10, 9.
- 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.



February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815451 JOBS L4 **GABLE** Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:04 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:gEKkeJ3K1?su6kS1RPQ3TNyVP2F-iYt3dtQz16cVjyC6wghUBrDGkWSjSUrAEX6toZzkuBb 2-10-7 2-10-7 Scale = 1:21.3 4x4 = 2 12.65 12 3 2x4 / 2x4 📏 2x4 Ш LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

n/a

n/a

0.00

999

999

n/a

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

n/a

n/a

n/a

3

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

REACTIONS.

1=5-8-15, 3=5-8-15, 4=5-8-15 (size) Max Horz 1=-71(LC 8) Max Uplift 1=-39(LC 13), 3=-36(LC 13)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 1=140(LC 1), 3=140(LC 1), 4=176(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

YES

TC

ВС

WB

Matrix-P

0.12

0.06

0.02

- 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.



197/144

FT = 20%

MT20

Structural wood sheathing directly applied or 5-8-15 oc purlins.

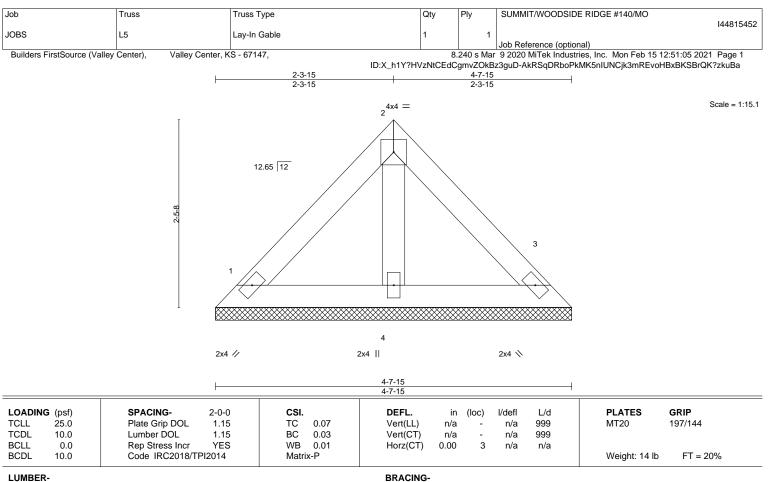
Weight: 18 lb

February 15,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek



TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=4-7-15, 3=4-7-15, 4=4-7-15 (size) Max Horz 1=-56(LC 8) Max Uplift 1=-30(LC 13), 3=-28(LC 13)

Max Grav 1=110(LC 1), 3=110(LC 1), 4=138(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 4-7-15 oc purlins.

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

February 15,2021

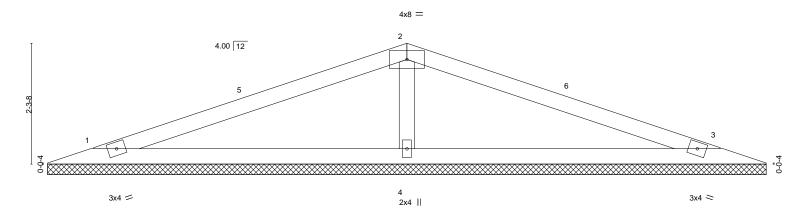




16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815453 **JOBS** V1 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-ex?q2ZSDZjsDyFMU25kyHGIW9J4WwOgThrbztSzkuBZ 6-10-8 6-10-8

Scale = 1:21.8



13-8-4											
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.51	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144		
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.29 WB 0.06	Vert(CT) Horz(CT)	n/a 0.00	- 3	n/a n/a n/a	999 n/a	IVITZU	197/144		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	11012(01)	0.00	3	II/a	II/a	Weight: 32 lb	FT = 20%		

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD OTHERS 2x4 SPF No.2

REACTIONS. 1=13-7-8, 3=13-7-8, 4=13-7-8 (size)

Max Horz 1=35(LC 16)

Max Uplift 1=-58(LC 8), 3=-62(LC 13), 4=-83(LC 8) Max Grav 1=237(LC 25), 3=237(LC 26), 4=610(LC 1)

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

2-4=-432/236 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 6-10-8, Exterior(2R) 6-10-8 to 9-10-8 , Interior(1) 9-10-8 to 12-9-11 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.

February 15,2021



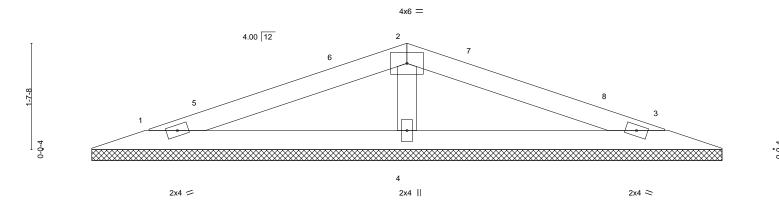
Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815454 JOBS V2 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:07 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-67ZCFvTrK1_4aPwgboFBpUrlcjSHfrFdwVKXPuzkuBY

4-10-8

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

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

Scale = 1:17.6



	0-0-12 0-0-12		4-10-8 4-9-12			+				9-9-0 4-10-8		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	` -	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	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		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S						Weight: 22 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

4-10-8

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

REACTIONS. 1=9-7-8, 3=9-7-8, 4=9-7-8 (size)

Max Horz 1=-23(LC 13)

Max Uplift 1=-39(LC 8), 3=-41(LC 13), 4=-55(LC 8) Max Grav 1=157(LC 25), 3=157(LC 26), 4=405(LC 1)

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

2-4=-286/222 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 4-10-8, Exterior(2R) 4-10-8 to 7-10-8 , Interior(1) 7-10-8 to 8-9-11 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.



February 15,2021



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815455 JOBS V3 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:08 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-bJ6aTFTU5K6xBZVt9WmQMhOxd7ozOIMm9944xKzkuBX 7-9-4 7-9-4 Scale = 1:16.5 2x4 || 3 4.00 12 2x4 || 0-0-4 5 2x4 = 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.19 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 20 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 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 1=7-9-4, 4=7-9-4, 5=7-9-4 Max Horz 1=100(LC 9)

Max Uplift 1=-1(LC 12), 4=-30(LC 8), 5=-106(LC 8) Max Grav 1=80(LC 1), 4=139(LC 1), 5=383(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-298/274 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-9-4, Interior(1) 3-9-4 to 7-7-8 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
- 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, 4 except (jt=lb) 5=106.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.







Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815456 JOBS V4 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:08 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-bJ6aTFTU5K6xBZVt9WmQMhOt57m_Ol6m9944xKzkuBX 5-9-4 5-9-4 Scale = 1:13.4 2x4 || 4.00 12 0-0-4 3 2x4 = 2x4 II 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** 0.42 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.23 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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

WEBS 2x4 SPF No.2

10.0

REACTIONS. 1=5-9-4, 3=5-9-4 (size) Max Horz 1=70(LC 9)

Max Uplift 1=-43(LC 8), 3=-53(LC 12) Max Grav 1=211(LC 1), 3=211(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 5-7-8 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

Matrix-P

- 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.



Weight: 14 lb

Structural wood sheathing directly applied or 5-9-4 oc purlins,

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

except end verticals.

FT = 20%

February 15,2021





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815457 JOBS V5 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:09 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-3WgygbU6seEopj43jDHfuvw7OX8i7IMvNppeTnzkuBW 3-9-4 Scale = 1:9.0 2x4 || 4.00 12 D-Q-4 3 2x4 = 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.12 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 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: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 1=3-9-4, 3=3-9-4 (size) Max Horz 1=40(LC 9)

Max Uplift 1=-24(LC 8), 3=-31(LC 12) Max Grav 1=121(LC 1), 3=121(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



Structural wood sheathing directly applied or 3-9-4 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815458 JOBS V₆ Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:09 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-3WgygbU6seEopj43jDHfuvw24X7b7lnvNppeTnzkuBW 5-6-4 0-10-8 Scale = 1:13.7 4x4 = 2x4 || 3 4.00 12 -10-1 8-8-5 4 2x4 = 2x4 || 2x4 || 6-4-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) 999 197/144 **TCLL** 1.15 0.40 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 16 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

2x4 SPF No.2

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

REACTIONS.

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

Max Horz 1=62(LC 9)

Max Uplift 1=-45(LC 8), 4=-70(LC 3), 5=-36(LC 8)

Max Grav 1=189(LC 1), 5=302(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 5-6-4, Exterior(2E) 5-6-4 to 6-3-0 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) 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, 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



except end verticals, and 2-0-0 oc purlins: 2-3.

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

February 15,2021



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

ANSI/TP11 Quality Criteria, 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 #140/MO 144815459 JOBS V7 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:10 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-XiELtxVkdyMeRtfFHwouR6TG1wUKsBc3cTZB0DzkuBV 4-4-12 Scale = 1:10.0 2x4 || 4.00 12 0-0-4 2x4 = 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.20 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.11 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% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 1=4-4-12, 3=4-4-12 (size)

Max Horz 1=50(LC 9) Max Uplift 1=-30(LC 8), 3=-38(LC 12)

Max Grav 1=149(LC 1), 3=149(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 4-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.



Structural wood sheathing directly applied or 4-4-12 oc purlins,

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

except end verticals.

February 15,2021





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815460 JOBS V8 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:11 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-?uoj5HWMOFUV20ESqeJ7_K0UKKrybesCr7lkYfzkuBU 2-6-4

3

Structural wood sheathing directly applied or 2-6-4 oc purlins,

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

except end verticals.

Scale = 1:6.9

4x6 = 2 4.00 12

2x4 =

[2:0-1-14,0-0-0], [2:0-10-13,0-1-8], [3:0-1-11,0-0-9] Plate Offsets (X,Y)--LOADING (psf) SPACING-**PLATES** GRIP DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.03 Vert(LL) n/a 999 MT20 197/144 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.02 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 FT = 20% **BCDL** 10.0 Matrix-P Weight: 5 lb

TOP CHORD

BOT CHORD

BRACING-LUMBER-

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

REACTIONS. (size) 1=2-6-4, 3=2-6-4

Max Horz 1=22(LC 9)

Max Uplift 1=-13(LC 8), 3=-16(LC 12) Max Grav 1=65(LC 1), 3=65(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



February 15,2021





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815461 JOBS V9 Valley Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:11 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-?uoj5HWMOFUV20ESqeJ7_K0SaKq?besCr7lkYfzkuBU 3-11-8 Scale = 1:9.3 2x4 || 4.00 12 0-0-4 3 2x4 = 2x4 II LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.14 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

except end verticals.

n/a

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

Weight: 9 lb

Structural wood sheathing directly applied or 3-11-8 oc purlins,

FT = 20%

LUMBER-

BCLL

BCDL

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

WEBS 2x4 SPF No.2

0.0

10.0

REACTIONS. 1=3-11-8, 3=3-11-8 (size) Max Horz 1=43(LC 9)

Max Uplift 1=-26(LC 8), 3=-33(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 1=129(LC 1), 3=129(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.00

- 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.

YES

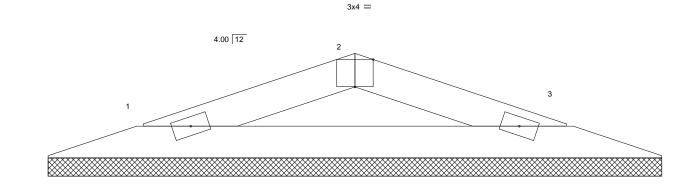
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty SUMMIT/WOODSIDE RIDGE #140/MO 144815462 JOBS V10 Valley Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 12:51:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:X_h1Y?HVzNtCEdCgmvZOkBz3guD-ex?q2ZSDZjsDyFMU25kyHGlcZJ6XwOcThrbztSzkuBZ 2-10-8 2-10-8

Scale = 1:10.6



2x4 = 2x4 >

5-9-0

0-0-12			5-8-4	
Plate Offsets (X,Y)	[2:0-2-0,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 0.10	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 11 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

0-0-12

1=5-7-8, 3=5-7-8 (size) Max Horz 1=12(LC 16)

Max Uplift 1=-32(LC 8), 3=-32(LC 9) Max Grav 1=174(LC 1), 3=174(LC 1)

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

NOTES-

REACTIONS.

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



Structural wood sheathing directly applied or 5-9-0 oc purlins.

February 15,2021

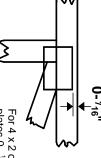


Symbols

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



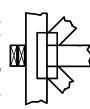
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

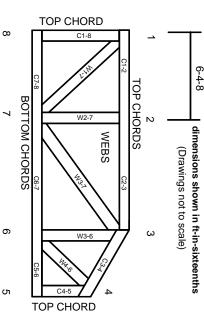
Min size shown is for crushing only

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