



MiTek USA, Inc.

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

Re: 2839636

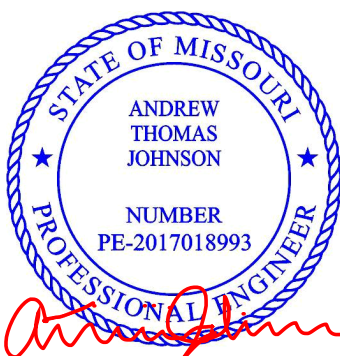
SUMMIT/WOODSIDE RIDGE #26/MO

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: I46904242 thru I46904303

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

Missouri COA: Engineering 001193



July 8, 2021

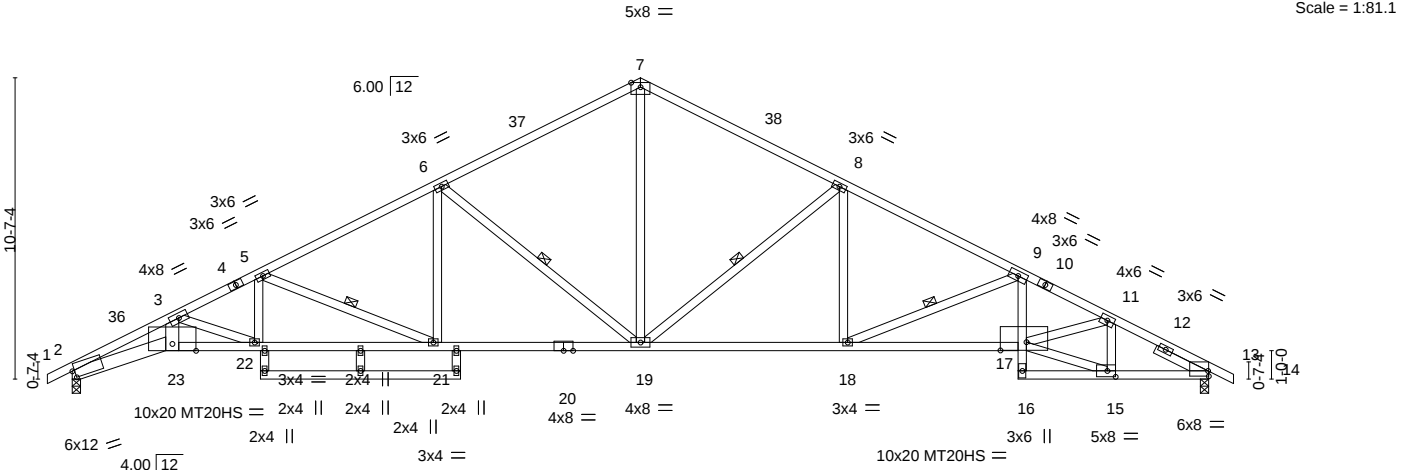
Johnson, Andrew ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904242
2839636	A1	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:01 2021 Page 1

ID:clow4YlGf7iox0?ly?5BCcz33zm-mCbHj6DWeQ?2BMW59XS6B4TwhgKmCqDpFG2kgKz_PdG



		3-3-8	6-7-8	6-8-8	10-1-12	12-10-4	13-8-0	20-0-0	23-5-12	27-1-12	33-3-8	36-6-15	40-0-0					
		3-3-8	3-4-0	0-1-0	3-5-4	2-8-8	0-9-12	6-4-0	3-5-12	3-8-0	6-1-12	3-3-7	3-5-1					
Plate Offsets (X,Y)--		[2:0-1-0,0-3-0], [13:Edge,0-2-4], [15:0-3-8,0-2-8], [17:0-11-0,0-3-8]																
LOADING (psf)		SPACING-				2-0-0		CSI.				in (loc) l/defl L/d		PLATES	GRIP			
	TCLL 25.0	Plate Grip DOL				1.15		TC	0.80		Vert(LL)	-0.32	19-21	>999	240	MT20	197/144	
	TCDL 20.0	Lumber DOL				1.15		BC	0.91		Vert(CT)	-0.73	19-21	>659	180	MT20HS	148/108	
	BCLL 0.0	Rep Stress Incr				YES		WB	0.73		Horz(CT)	0.39	13	n/a	n/a			
	BCDL 10.0	Code IRC2018/TPI2014						Matrix-AS										Weight: 199 lb

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-4,10-14: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-23: 2x6 SPF 2100F 1.8E, 20-23,13-16: 2x4 SP 2400F 2.0E
17-20: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
3-23: 2x6 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-19, 8-19, 9-18, 5-21

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=184(LC 12)
Max Uplift 2=-316(LC 12), 13=-318(LC 13)
Max Grav 2=2270(LC 1), 13=2284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6884/1048, 3-5=-5309/762, 5-6=-3920/540, 6-7=-2816/474, 7-8=-2816/473,
8-9=-3901/532, 9-11=-5192/665, 11-13=-3618/490
BOT CHORD 2-23=-1075/6150, 22-23=-1046/6027, 21-22=-755/4751, 19-21=-445/3403,
18-19=-291/3388, 17-18=-494/4715, 9-17=-48/685, 15-16=-50/292, 13-15=-364/3112
WEBS 3-23=-197/1154, 7-19=-223/1767, 6-19=-1305/352, 6-21=-67/681, 8-19=-1285/333,
8-18=-48/658, 9-18=-1433/290, 11-15=-1133/157, 15-17=-331/2974, 11-17=-140/1590,
5-22=-80/689, 5-21=-1456/334, 3-22=-1350/309

- 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 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 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) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=316, 13=318.
 - 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.



July 8,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904243
2839636	A2	Roof Special	3	1		

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

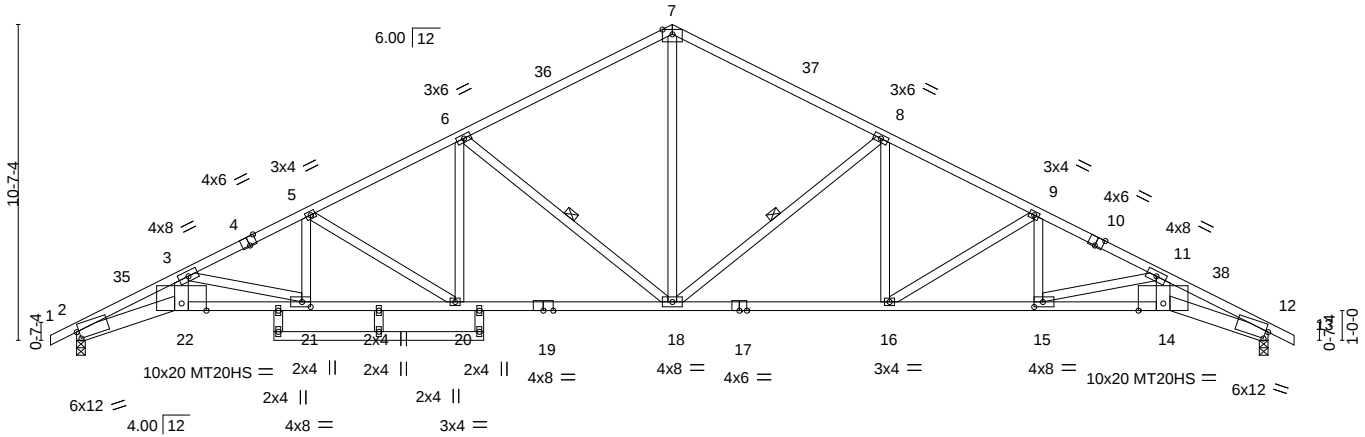
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:04 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-BnGPL8GPxLNd2pFggf?ppi5P?uNoPBnFxEgOHez_PdD

0-10-8	3-3-8	6-7-8	7-8-8	12-10-4	13-8-0	20-0-0	27-1-12	31-1-11	32-3-8	36-8-8	40-0-0	40-10-8
0-10-8	3-3-8	3-4-0	1-1-0	5-1-12	0-9-12	6-4-0	7-1-12	3-11-15	1-1-13	4-5-0	3-3-8	0-10-8

5x8 =

Scale = 1:77.4



3-3-8	6-7-8	7-8-8	10-1-12	12-10-4	13-8-0	20-0-0	27-1-12	29-0-5	32-3-8	36-8-8	40-0-0
3-3-8	3-4-0	1-1-0	2-5-4	2-8-8	0-9-12	6-4-0	7-1-12	1-10-9	3-3-3	4-5-0	3-3-8

Plate Offsets (X,Y)-- [2:0-1-0,0-3-0], [4:0-3-0,Edge], [10:0-3-0,Edge], [12:0-1-0,0-3-0], [15:0-3-8,0-2-0], [21:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.35 18-20	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.82 18-20	>587	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.46 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-4,10-13: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-22,12-14: 2x6 SPF 2100F 1.8E, 19-22,14-17: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except*
3-22,11-14: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-18, 6-18

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=184(LC 16)
Max Uplift 2=317(LC 12), 12=317(LC 13)
Max Grav 2=2279(LC 1), 12=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7024/1070, 3-5=-4969/700, 5-6=-3902/546, 6-7=-2835/475, 7-8=-2835/475,
8-9=-3901/541, 9-11=-4969/634, 11-12=-7024/899
BOT CHORD 2-22=-1098/6290, 21-22=-1070/6164, 20-21=-676/4417, 18-20=-442/3408,
16-18=-293/3407, 15-16=-433/4417, 14-15=-734/6163, 12-14=-752/6290
WEBS 3-22=-190/1246, 7-18=-219/1765, 11-14=-112/1245, 8-16=-69/722, 8-18=-1282/331,
6-18=-1283/346, 6-20=-85/723, 5-20=-1183/274, 5-21=-82/646, 3-21=-1802/407,
9-16=-1184/241, 9-15=-53/647, 11-15=-1801/312

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 12=317.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 8, 2021

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

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

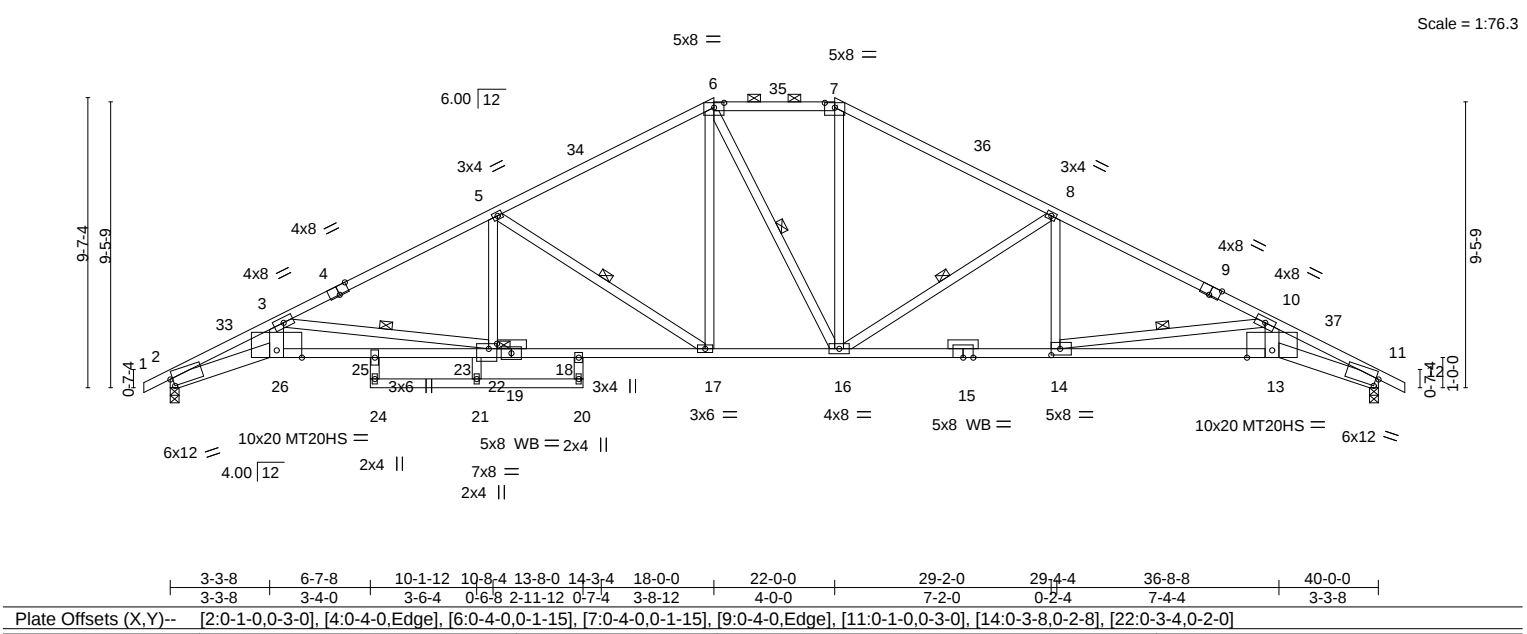


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904244
2839636	A3	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:05 2021 Page 1
ID:clow4Ylgr7iox0?ly?5BCcz33zm-f_qnZUG1eVUgzqsONW2Mweclljw8fOOAu0xp5z_PdC

-0-10-8 3-3-8 6-7-8 10-8-4 13-8-0 14-3-4 18-0-0 22-0-0 29-2-0 29-4-4 36-8-8 40-0-0 40-10-8
0-10-8 3-3-8 3-4-0 4-0-12 2-11-12 0-7-4 3-8-12 4-0-0 7-2-0 0-2-4 7-4-4 3-3-8 0-10-8



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 0.79	Vert(LL)	-0.37	25	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.84	25	>568	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.53	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-7: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-3-8 max.): 6-7.
BOT CHORD 2x4 SPF No.2 *Except* 2-26,11-13: 2x6 SPF 2100F 1.8E, 19-26,13-15: 2x4 SP 2400F 2.0E 15-19: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 3-26,10-13: 2x6 SPF No.2	WEBS 1 Row at midpt 3-22, 6-16, 10-14, 5-17, 8-16
OTHERS 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 22

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=165(LC 12)
Max Uplift 2=-321(LC 12), 11=-321(LC 13)
Max Grav 2=2279(LC 1), 11=2279(LC 1)

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

TOP CHORD 2-3=-7190/1103, 3-5=-4370/596, 5-6=-3157/486, 6-7=-2669/477, 7-8=-3156/484,
8-10=-4392/565, 10-11=-7227/953

BOT CHORD 2-26=-1114/6463, 25-26=-1091/6336, 23-25=-1053/6220, 22-23=-1053/6220,
18-22=-491/3722, 17-18=-529/3837, 16-17=-234/2669, 14-16=-369/3857,
13-14=-794/6368, 11-13=-809/6499

WEBS 3-26=-178/1353, 3-22=-2526/568, 6-17=-150/860, 6-16=-252/251, 7-16=-121/855,
10-14=-2538/463, 10-13=-104/1365, 5-17=-1373/349, 5-22=-17/630, 8-14=-11/630,
8-16=-1397/341

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 11=321.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheathing be applied directly to the bottom chord.



July 8,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904244
2839636	A3	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:05 2021 Page 2
ID:clow4Ylgf7iox0?ly?5BCcz33zm-f_qnZUG1ieVUgzqsONW2Mwecljw8fOOAu0xp5z_PdC

NOTES-

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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904245
2839636	A4	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:07 2021 Page 1

ID:clow4Ylgfiox0?ly?5BCcz33zm-bMyYzAIHEGIBvH_FVoZWRLjxH5Mucc6hdCV2uzz_PdA

0-10-8 3-3-8 6-7-8 9-8-12 13-8-0 16-0-0 24-0-0 30-4-4 36-8-8 40-0-0 40-10-8
0-10-8 3-3-8 3-4-0 3-1-4 3-11-4 2-4-0 8-0-0 6-4-4 6-4-4 3-3-8 0-10-8

Scale = 1:84.5

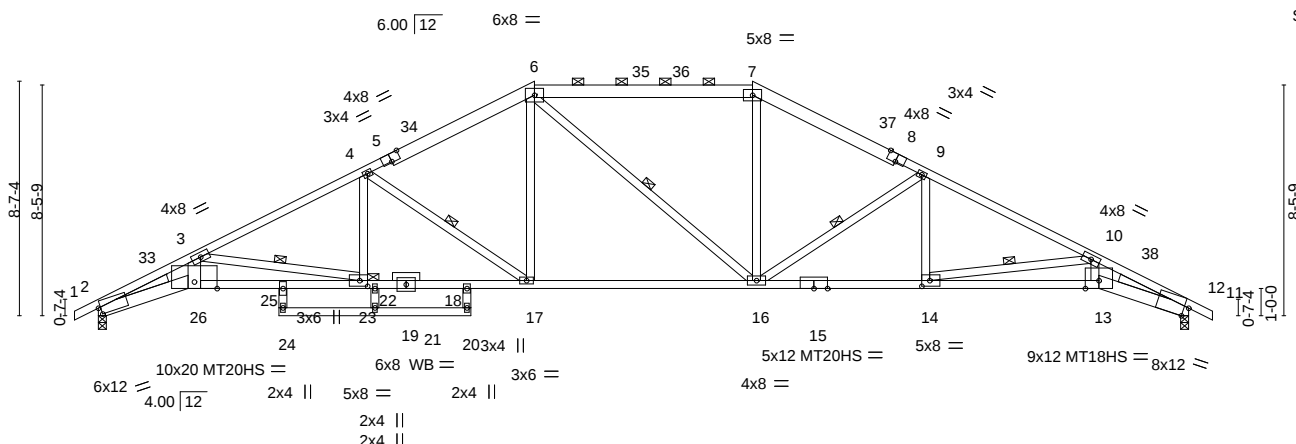


Plate Offsets (X,Y)--	[2:0-1-0,0-3-0], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-2-0,Edge], [14:0-3-8,0-2-8], [23:0-3-8,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.36 16-17	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.88 16-17	>546	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.52 11	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-5,8-12: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-26,11-13: 2x6 SPF 2100F 1.8E, 19-26,13-15: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except*
3-26: 2x6 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-3-3 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 9-16, 10-14, 4-17, 3-23
JOINTS 1 Brace at Jt(s): 23

REACTIONS.

(size) 2=0-3-8, 11=0-3-8
Max Horz 2=146(LC 12)
Max Uplift 2=-319(LC 12), 11=-319(LC 13)
Max Grav 2=2279(LC 1), 11=2279(LC 1)

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

TOP CHORD 2-3=-7167/1067, 3-4=-4501/616, 4-6=-3474/506, 6-7=-3011/498, 7-9=-3478/506,
9-10=-4555/582, 10-11=-7499/969
BOT CHORD 2-26=-1060/6439, 25-26=-1038/6311, 23-25=-1024/6185, 22-23=-523/3835,
18-22=-523/3835, 17-18=-537/3961, 16-17=-284/3008, 14-16=-392/4011,
13-14=-790/6392, 11-13=-824/6753
WEBS 3-26=-166/1347, 6-17=-107/795, 6-16=-249/254, 7-16=-73/790, 9-16=-1180/291,
9-14=-30/590, 10-14=-2413/433, 10-13=-121/1494, 4-17=-1131/303, 4-23=-45/557,
3-23=-2384/508

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=319, 11=319.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Conference signed and ANSI/TPI 1.



July 8, 2021

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

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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 #26/MO	I46904245
2839636	A4	Hip	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904246
2839636	A5	Hip	1	1	Job Reference (optional)	

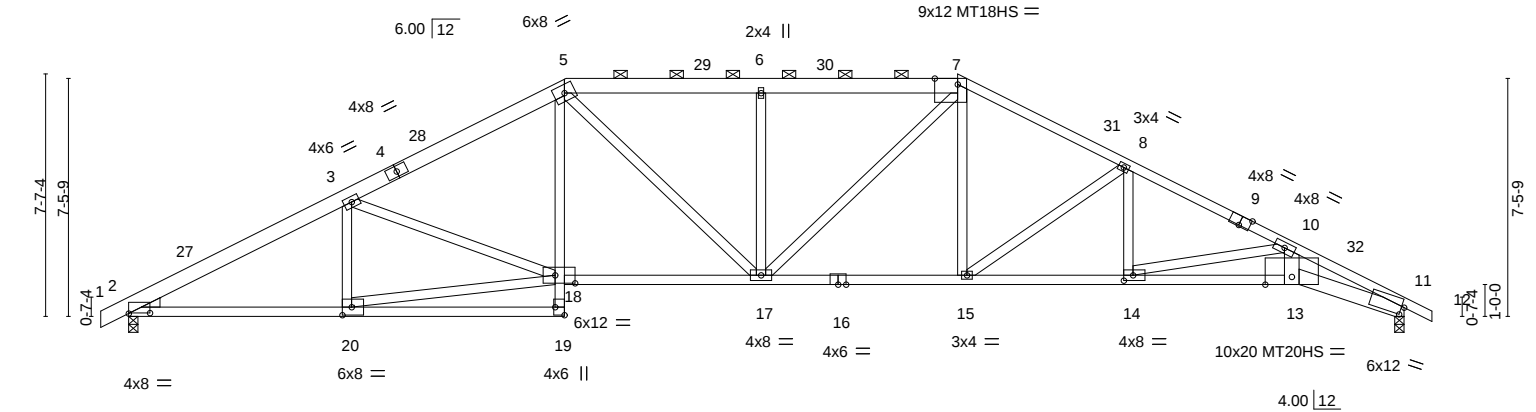
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:08 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-3ZWwBWJv?Zt2XQYR3V4lzYG5TVk2LyYrseEbQQz_Pd9

-0-10-8 6-10-3 13-8-0 14-0-0 19-10-0 20-0-0 26-0-0 31-4-4 36-8-8 40-0-0 40-10-8
0-10-8 6-10-3 6-9-13 0-4-0 5-10-0 0-2-0 6-0-0 5-4-4 5-4-4 3-3-8 0-10-8

Scale = 1:72.3



	6-10-3	13-8-0	19-10-0	20-0-0	26-0-0	31-4-4	36-8-8	40-0-0
	6-10-3	6-9-13	6-2-0	0-2-0	6-0-0	5-4-4	5-4-4	3-3-8

Plate Offsets (X,Y)-- [2:0-8-0,0-0-3], [7:0-8-10,Edge], [9:0-4-0,Edge], [11:0-1-0,0-3-0], [14:0-3-8,0-2-0], [18:0-7-8,0-3-0], [19:Edge,0-3-8], [20:0-3-8,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.28	15	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.64	15-17	>752	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.33	11	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 206 lb FT = 20%		

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
7-9: 2x4 SPF No.2, 9-12: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
2-19,13-16: 2x4 SP 2400F 2.0E, 11-13: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
10-13: 2x6 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-6-13 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=131(LC 12)
Max Uplift 2=-265(LC 12), 11=-268(LC 13)
Max Grav 2=2279(LC 1), 11=2279(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4051/510, 3-5=-3836/526, 5-6=-3667/548, 6-7=-3673/551, 7-8=-3737/526,
8-10=-4760/603, 10-11=-7089/830
BOT CHORD 2-20=-412/3494, 5-18=-85/709, 17-18=-273/3306, 15-17=-259/3238, 14-15=-424/4216,
13-14=-687/6228, 11-13=-702/6356
WEBS 3-20=-406/120, 18-20=-400/3287, 3-18=-257/204, 7-15=-98/758, 8-15=-1170/260,
8-14=-31/615, 10-14=-2054/321, 10-13=-98/1293, 6-17=-650/207, 7-17=-173/782,
5-17=-154/689

- 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 13-8-0, Exterior(2R) 13-8-0 to 17-10-15, Interior(1) 17-10-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=265, 11=268.
 - 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 sheathing be applied directly to the bottom chord.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904246
2839636	A5	Hip	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904247
2839636	A6	Hip	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:09 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-Yl3lOrKymt?v9a7ddDb_WmoJOv314SZ_4W_9ysz_Pd8

0-10-8 1-7-8 2-3-8 7-1-12 12-0-0 20-0-0 28-0-0 32-4-4 36-8-8 40-0-0 40-10-8
0-10-8 1-7-8 0-8-0 4-10-4 4-10-4 8-0-0 8-0-0 4-4-4 4-4-4 3-3-8 0-10-8

Scale = 1:71.5

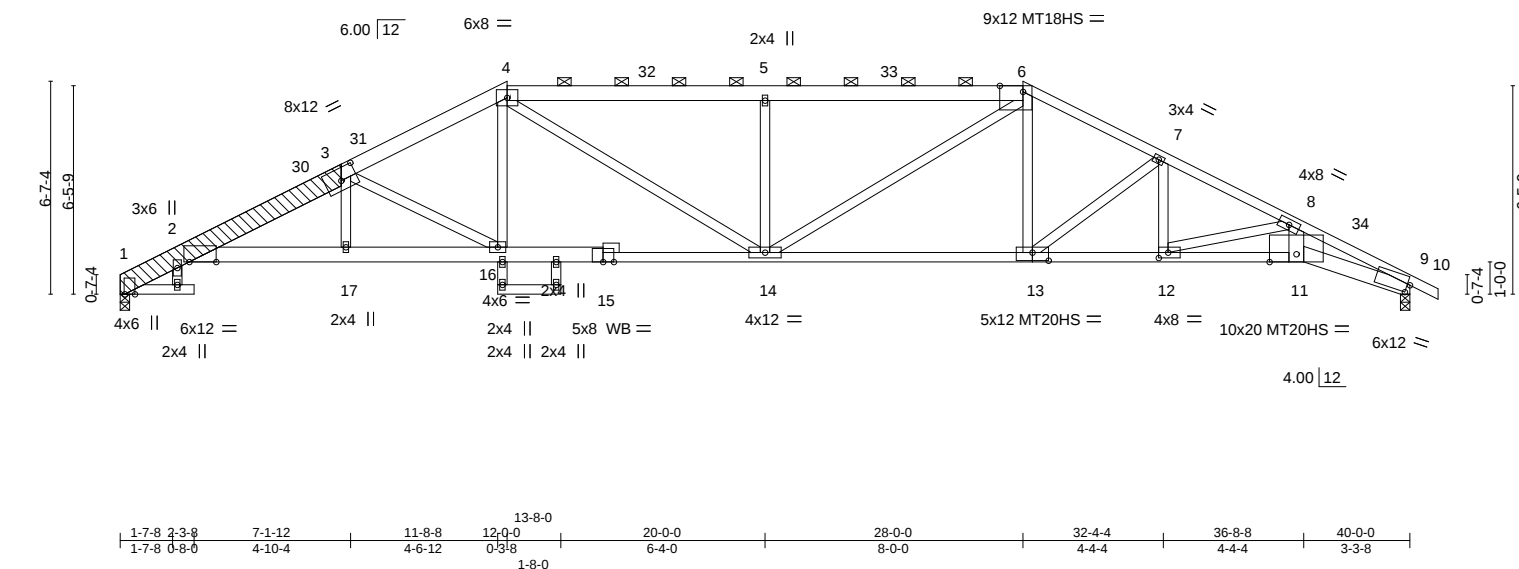


Plate Offsets (X,Y)-- [2:0-10,0-0-0], [3:0-6-0,0-4-8], [6:0-8-10,Edge], [9:0-1-0,0-3-0], [12:0-3-8,0-2-0], [13:0-6-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.34 13-14	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.83 13-14	>579	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.41 9	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
6-10: 2x4 SPF 1650F 1.5E, 1-3: 2x8 SP 2400F 2.0E	2-0-0 oc purlins (2-10-3 max.): 4-6.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
2-15,9-11: 2x6 SPF 2100F 1.8E, 11-13: 2x4 SP 2400F 2.0E	
WEBS 2x4 SPF No.2 *Except*	
8-11: 2x6 SPF No.2	
OTHERS 2x4 SPF No.2	
LBR SCAB 1-3 2x8 SP 2400F 2.0E one side	

REACTIONS.	(size) 1=0-3-8, 9=0-3-8
	Max Horz 1=-119(LC 17)
	Max Uplift 1=-215(LC 12), 9=-247(LC 13)
	Max Grav 1=2215(LC 1), 9=2273(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-981/162, 2-3=-5273/647, 3-4=-4187/548, 4-5=-4417/617, 5-6=-4422/619, 6-7=-4089/549, 7-8=-4963/629, 8-9=-7003/820
BOT CHORD	2-17=-504/4901, 16-17=-503/4918, 14-16=-372/3661, 13-14=-307/3562, 12-13=-457/4413, 11-12=-677/6144, 9-11=-693/6271
WEBS	4-16=-68/756, 4-14=-236/1069, 5-14=-900/276, 6-14=-247/1182, 6-13=-77/754, 8-11=-98/1246, 3-17=0/290, 3-16=-1387/299, 7-12=-49/619, 7-13=-1021/226, 8-12=-1787/256

NOTES-

- Attached 7-11-3 scab 1 to 3, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 3-2-15 from end at joint 3, nail 2 row(s) at 2" o.c. for 3-0-5; starting at 0-0-7 from end at joint 3, nail 2 row(s) at 7" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-11, Interior(1) 3-0-11 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-4-4, Interior(1) 32-4-4 to 40-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=215, 9=247.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Conference code and ANSI/TPI 1.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904247
2839636	A6	Hip	1	1	Job Reference (optional)	

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

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904248
2839636	A7	HIP	1	1	Job Reference (optional)	

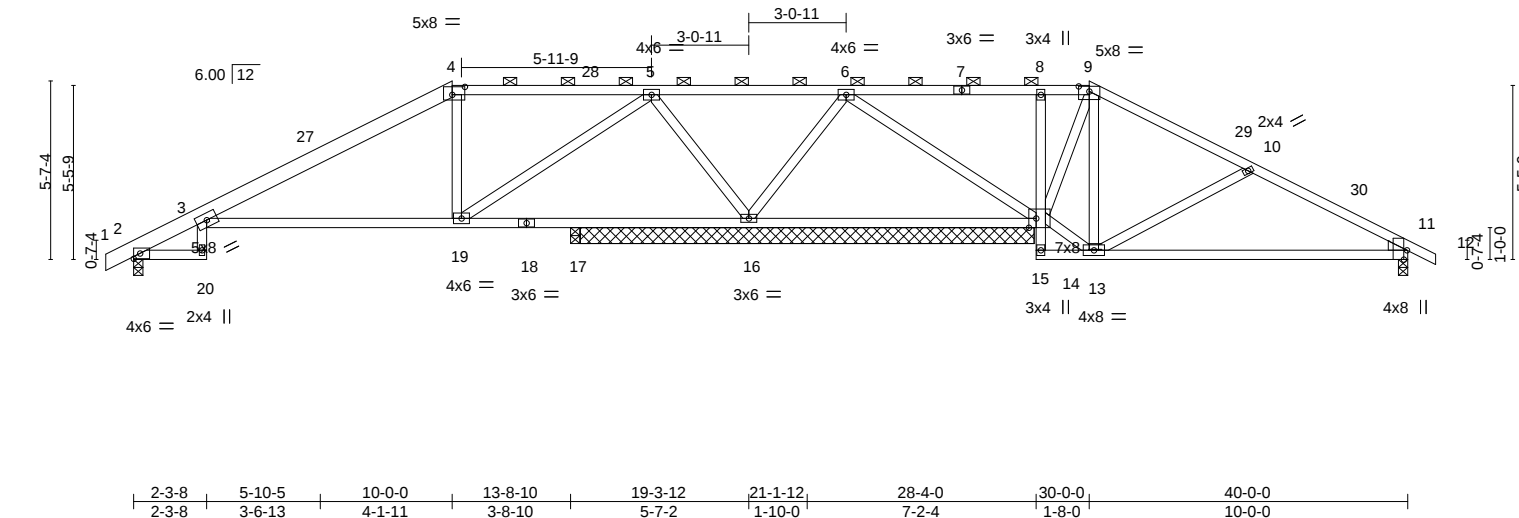
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:10 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-0xdgcBKAXB7mnkiqAw6D3zLT3JUwptx7JAJivIz_Pd7

-0-10-8	2-3-8	5-10-5	10-0-0	16-3-1	22-4-7	28-4-0	30-0-0	34-11-13	40-0-0	40-10-8
0-10-8	2-3-8	3-6-13	4-1-11	6-3-1	6-1-5	5-11-9	1-8-0	4-11-13	5-0-3	0-10-8

Scale = 1:72.3



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 0.82	Vert(LL)	-0.25	3-19	>654	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.60	3-19	>275		
BCLL 0.0	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.22	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
1-4: 2x6 SPF No.2, 4-7: 2x4 SPF 1650F 1.5E	2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS. All bearings 0-3-8 except (jt=length) 16=14-3-0, 15=14-3-0.
 (lb) - Max Horz 2=97(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 11=123(LC 13), 16=416(LC 9), 15=208(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 17 except 2=584(LC 25), 11=590(LC 26), 16=3002(LC 25), 15=675(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-22=-268/122, 3-4=-155/298, 5-6=-437/2495, 6-8=-50/381, 8-9=-48/399, 10-11=-570/171
 BOT CHORD 17-19=-1412/389, 16-17=-1412/389, 15-16=-1511/392, 8-15=-407/140, 13-14=-258/0, 11-13=-74/476
 WEBS 4-19=-775/212, 5-19=-304/1661, 5-16=-1833/333, 6-16=-1704/280, 6-15=-268/1426, 13-15=-9/345, 9-15=-829/193, 9-13=-107/499, 10-13=-578/209

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 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 100 lb uplift at joint(s) 2 except (jt=lb) 11=123, 16=416, 15=208.
 - 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904249
2839636	A8	Hip	1	1		

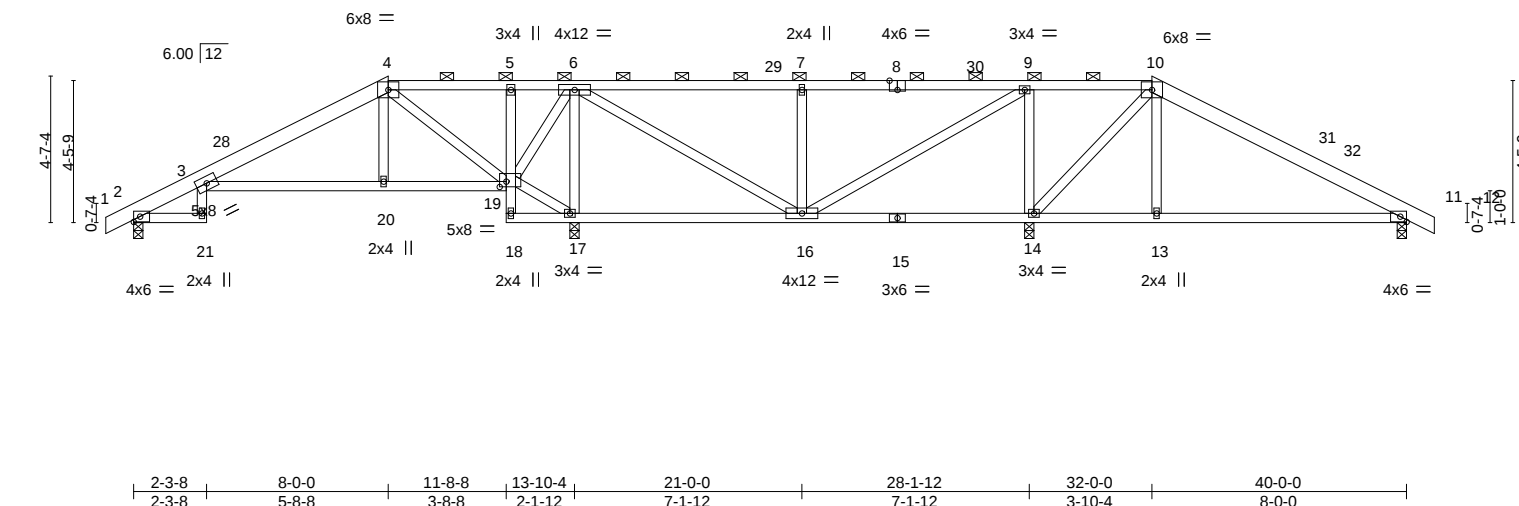
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:11 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-U8B2pXL0UGdOuH0kddSbBtdBiuWYO2HYqTG1kz_Pd6

-0-10-8	2-3-8	8-0-0	11-8-8	13-10-4	21-0-0	28-1-12	32-0-0	40-0-0	40-10-8
0-10-8	2-3-8	5-8-8	3-8-8	2-1-12	7-1-12	7-1-12	3-10-4	8-0-0	0-10-8

Scale = 1:72.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.09	3-20	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.20	3-20	>834	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.09	17	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 175 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 4-8,8-10: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD	2x4 SPF No.2 *Except* 15-18: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS.	All bearings 0-3-8.
(lb) -	Max Horz 2=78(LC 12)
	Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=-436(LC 12), 14=-253(LC 8), 11=-150(LC 13)
	Max Grav All reactions 250 lb or less at joint(s) except 2=390(LC 1), 17=2352(LC 1), 14=1306(LC 26), 11=645(LC 26)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-105/427, 4-5=-236/1265, 5-6=-242/1287, 9-10=-15/269, 10-11=-453/145
BOT CHORD	3-20=-252/141, 19-20=-254/138, 16-17=-1407/343, 14-16=-269/80, 13-14=-13/302, 11-13=-12/307
WEBS	4-19=-1309/282, 17-19=-1517/387, 6-17=-1503/306, 6-16=-222/1505, 7-16=-682/218, 9-16=-197/397, 9-14=-696/265, 10-14=-726/95, 10-13=0/251

- 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 3-1-8, Interior(1) 3-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 13-10-4, Interior(1) 13-10-4 to 32-0-0, Exterior(2R) 32-0-0 to 37-7-14, Interior(1) 37-7-14 to 40-10-8 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 100 lb uplift at joint(s) 2 except (jt=lb) 17=436, 14=253, 11=150.
 - 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.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904250
2839636	A9	Hip Girder	1	2	Job Reference (optional)	

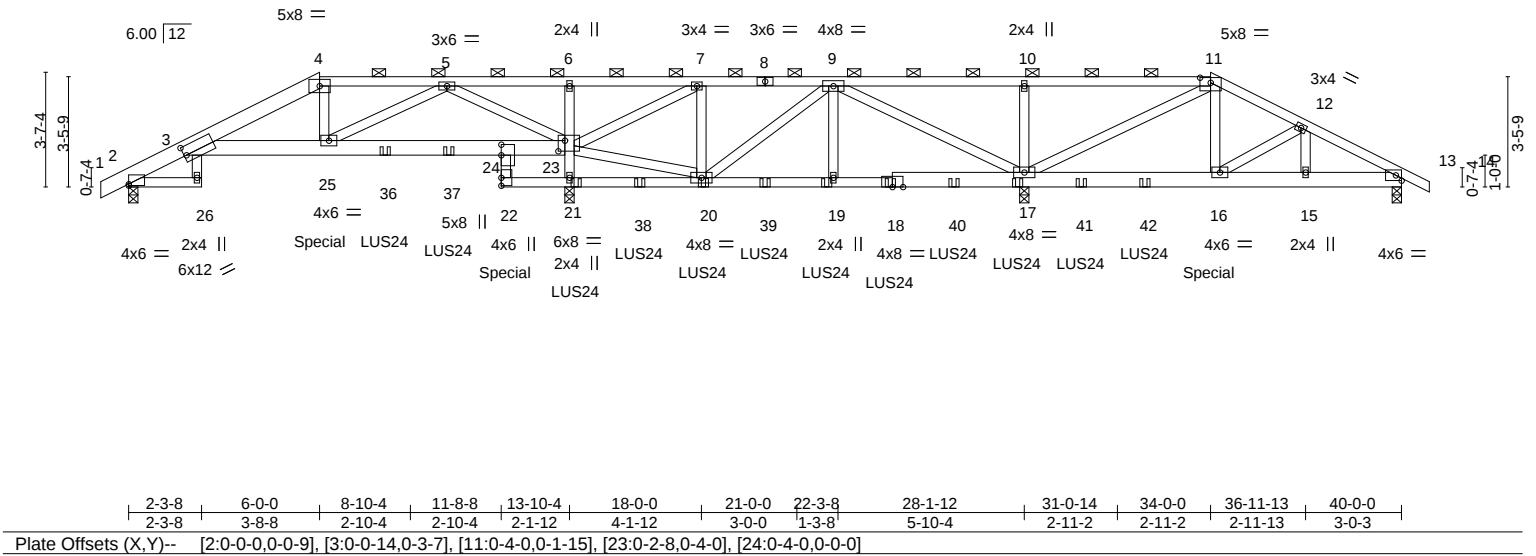
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:14 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-ujtBRZNGaPeCFM0bPmB9DpV9WwrlpAJEohwe3z_Pd3

0-10-8 2-3-8 6-0-0 8-10-4 10-0-0 11-8-8 13-10-4 18-0-0 21-0-0 22-3-8 28-1-12 29-6-8 34-0-0 36-11-13 40-0-0 40-10-8
0-10-8 2-3-8 3-8-8 2-10-4 1-1-12 1-8-8 2-1-12 4-1-12 3-0-0 1-3-8 5-10-4 1-4-12 4-5-8 2-11-13 3-0-3 0-10-8

Scale = 1:72.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.08	26	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.19	26	>888		
BCLL 0.0	Rep Stress Incr	NO	WB 0.36	Horz(CT)	0.09	13	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 378 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-11.
BOT CHORD 2x4 SPF No.2 *Except* 3-23,13-18: 2x6 SPF No.2, 18-22: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=62(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-222(LC 8), 21=-1106(LC 5), 17=-895(LC 4), 13=-233(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=1054(LC 21), 21=4584(LC 21), 17=3547(LC 22), 13=1026(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-28=-394/148, 3-4=-2324/564, 4-5=-2126/540, 5-6=-549/2582, 6-7=-538/2542,
9-10=-126/651, 10-11=-125/653, 11-12=-1443/382, 12-13=-1492/356
BOT CHORD 3-25=-485/2087, 23-24=-210/791, 22-24=-364/91, 21-22=-683/153, 20-21=-1189/277,
19-20=-203/792, 17-19=-205/801, 16-17=-235/1203, 15-16=-262/1279, 13-15=-262/1279
WEBS 4-25=-237/613, 11-16=-325/1214, 12-16=-267/231, 21-23=-3633/905, 6-23=-412/127,
10-17=-601/192, 11-17=-2101/495, 5-25=-579/2384, 5-23=-2997/728, 9-19=-178/823,
9-17=-1618/454, 7-20=-205/891, 9-20=-943/215, 20-23=-326/1271, 7-23=-2776/663

NOTES-

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 2, 1106 lb uplift at joint 21, 895 lb uplift at joint 17 and 233 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



July 8, 2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904250
2839636	A9	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:14 2021 Page 2
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- NOTES-**
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 8-0-12 from the left end to 31-11-4 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 816 lb down and 282 lb up at 6-0-0, and 306 lb down and 102 lb up at 11-10-4, and 800 lb down and 281 lb up at 33-11-4 on bottom chord. The design/selecion 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: 1-3=-90, 3-4=-90, 4-11=-90, 11-14=-90, 26-27=-20, 24-30=-20, 22-33=-20

Concentrated Loads (lb)

Vert: 24=-306(F) 18=-306(F) 25=-816(F) 16=-800(F) 21=-306(F) 17=-306(F) 19=-306(F) 20=-306(F) 36=-307(F) 37=-307(F) 38=-306(F) 39=-306(F) 40=-306(F) 41=-306(F) 42=-306(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904251
2839636	B1	Roof Special	3	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

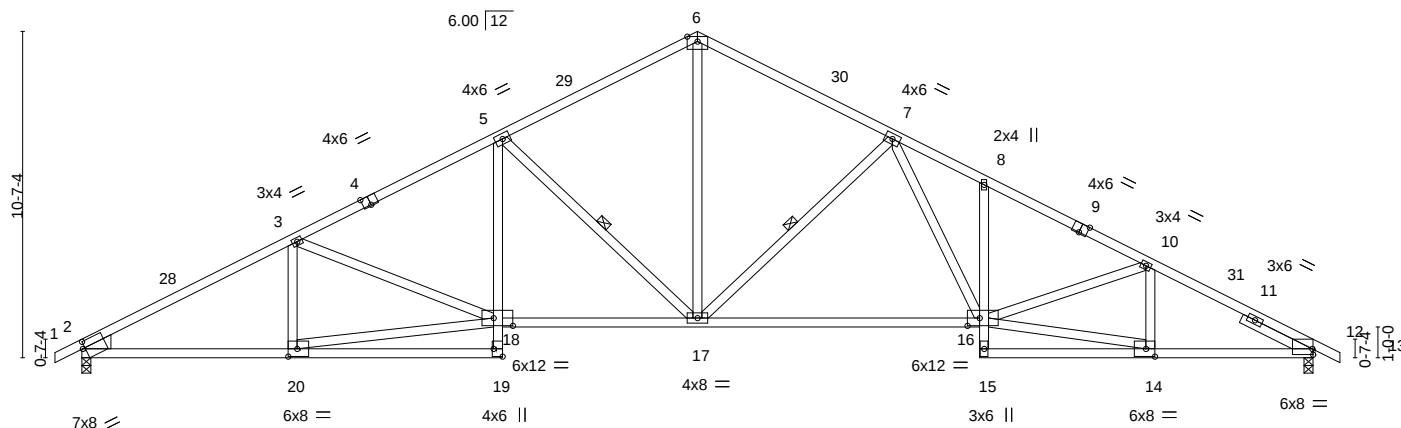
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:15 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-MvRZfvOILjm3tVbnzTiOI12JzK5wU9xtTSRTAWz_Pd2

0-10-8 6-10-3 13-8-0 20-0-0 24-7-0 26-4-0 29-2-0 34-6-13 40-0-0 40-10-8
0-10-8 6-10-3 6-9-13 6-4-0 4-7-0 1-9-0 2-10-0 5-4-13 5-5-3 0-10-8

5x8 =

Scale = 1:74.9



6-10-3 13-8-0 20-0-0 29-2-0 34-6-13 40-0-0
6-10-3 6-9-13 6-4-0 9-2-0 5-4-13 5-5-3

Plate Offsets (X,Y)-- [2:0-0-15,0-2-10], [4:0-3-0,Edge], [9:0-3-0,Edge], [12:Edge,0-2-4], [14:0-3-8,0-3-0], [16:0-4-12,0-3-0], [18:0-7-8,0-3-0], [19:Edge,0-3-8], [20:0-3-8,0-3-0]

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 0.81	Vert(LL)	-0.26 16-17	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.72 16-17	>669	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.24 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-19,12-15: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x6 SPF No.2
SLIDER Right 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-17, 7-17

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
Max Horz 2=-184(LC 17)
Max Uplift 2=-316(LC 12), 12=-318(LC 13)
Max Grav 2=2270(LC 1), 12=2284(LC 1)

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

TOP CHORD 2-3=-3908/522, 3-5=-3782/530, 5-6=-2808/474, 6-7=-2796/472, 7-8=-4166/603,
8-10=-4195/549, 10-12=-3785/515
BOT CHORD 2-20=-546/3379, 19-20=-26/282, 5-18=-86/651, 17-18=-419/3285, 16-17=-274/3206,
8-16=-367/130, 12-14=-372/3297
WEBS 3-20=-425/134, 18-20=-526/3132, 5-17=-1227/345, 6-17=-239/1826, 7-17=-1138/323,
7-16=-185/1096, 14-16=-338/3167, 10-16=-24/412, 10-14=-617/118

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2 and 318 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904252
2839636	B2	Roof Special	1	1		

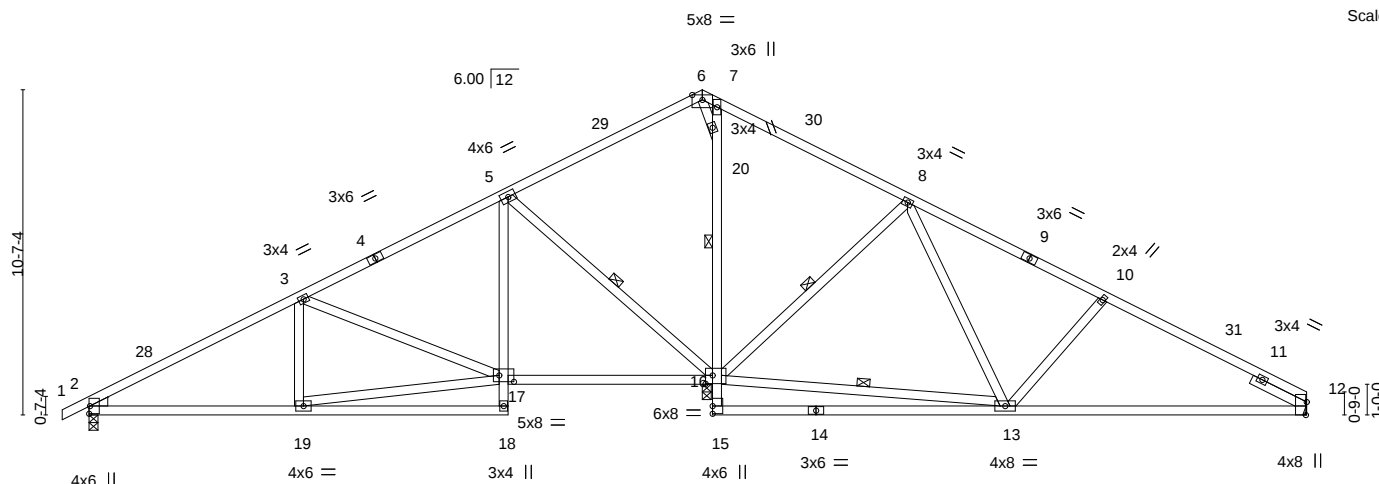
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:16 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-q5?xsFPx61uwVfAzXBdIEbXRjVGdDf0h6A1iyz_Pd1

-0-10-8 6-10-3 13-8-0 20-0-0 20-4-0 26-8-5 33-0-11 39-8-8
0-10-8 6-10-3 6-9-13 6-4-0 0-4-0 6-4-5 6-4-5 6-7-13

Scale = 1:75.1



6-10-3 13-8-0 20-3-8 20-4-0 29-10-8 39-8-8
6-10-3 6-9-13 6-7-8 0-0-8 9-6-8 9-10-0

Plate Offsets (X,Y)-- [12:0-5-1,Edge], [16:0-2-12,0-3-4], [17:0-5-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.15 13-15	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.29 13-15	>791	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.03 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
16-17: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-16
WEBS 1 Row at midpt 5-16, 13-16, 8-16

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 12=Mechanical
Max Horz 2=195(LC 12)
Max Uplift 2=-168(LC 12), 16=-304(LC 12), 12=-147(LC 13)
Max Grav 2=1051(LC 25), 16=2649(LC 1), 12=854(LC 26)

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

TOP CHORD 2-3=-1453/222, 3-5=-761/157, 5-6=0/614, 6-7=0/657, 7-8=0/651, 8-10=-789/208,
10-12=-1063/229
BOT CHORD 2-19=-292/1196, 5-17=-62/570, 16-17=-99/576, 16-20=-1044/132, 7-20=-462/105,
12-13=-122/942
WEBS 17-19=-278/1125, 3-17=-716/211, 5-16=-1161/323, 13-16=-19/256, 8-16=-973/317,
8-13=-110/677, 10-13=-552/232, 6-20=-668/116

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 39-8-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 2, 304 lb uplift at joint 16 and 147 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904253
2839636	B3	HIP	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:18 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-nU6iHwRBee8dkzJMecF5NfgtTXBEhUIJ9Pf7nrz_Pd?

0-10-8	4-8-15	9-5-8	13-8-12	18-0-0	20-4-0	22-0-0	27-9-11	33-7-5	39-8-8
0-10-8	4-8-15	4-8-9	4-3-4	4-3-4	2-4-0	1-8-0	5-9-11	5-9-11	6-1-3

Scale = 1:73.1

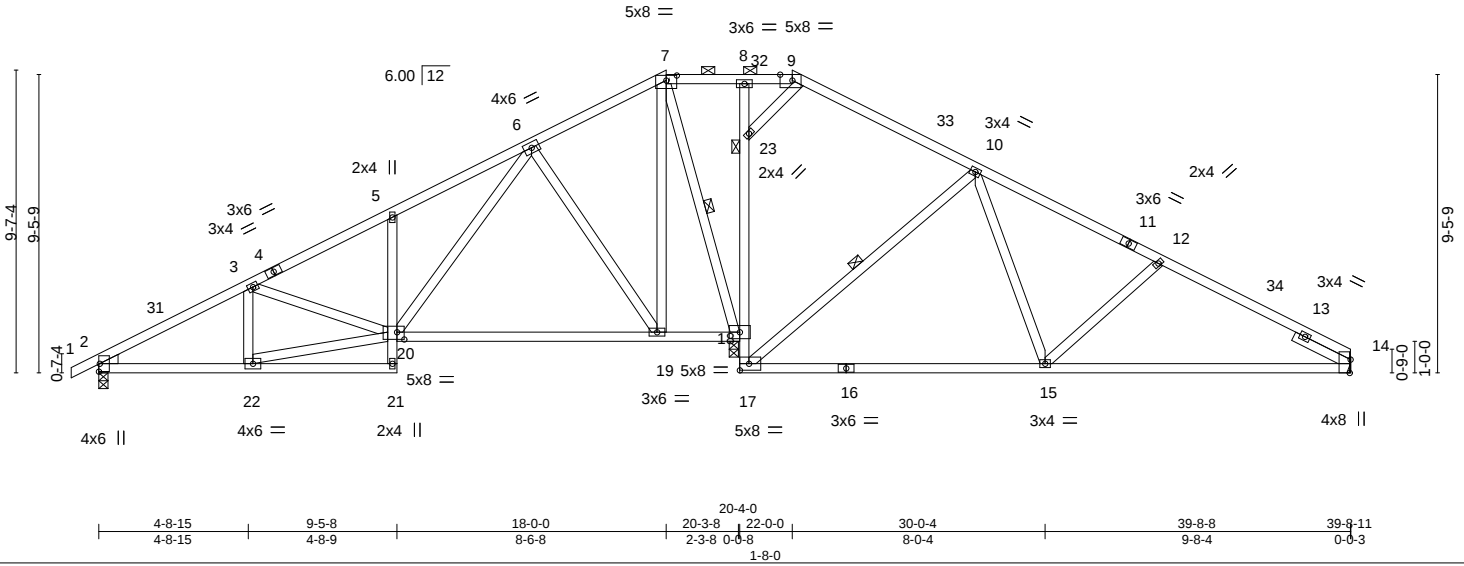


Plate Offsets (X,Y)-- [7:0-4-0,0-1-15], [9:0-4-10,Edge], [14:0-5-1,Edge], [20:0-2-12,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.17 15-17	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.36 15-17	>634	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.03 18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
18-20: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (10-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-18, 10-17
JOINTS 1 Brace at Jt(s): 23

REACTIONS.

(size) 2-0-3-8, 18-0-3-8, 14=Mechanical
Max Horz 2=175(LC 12)
Max Uplift 2=-178(LC 12), 18=-294(LC 12), 14=-207(LC 13)
Max Grav 2=1096(LC 25), 18=2451(LC 1), 14=973(LC 26)

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

TOP CHORD 2-3=-1621/255, 3-5=-1456/264, 5-6=-1462/360, 7-8=-12/334, 8-9=0/472, 9-10=-29/355,
10-12=-1030/314, 12-14=-1315/354
BOT CHORD 2-22=-326/1370, 5-20=-407/170, 19-20=-85/589, 17-18=-147/746, 18-23=-662/95,
8-23=-346/60, 15-17=-67/642, 14-15=-236/1165
WEBS 20-22=-298/1359, 6-20=-263/1099, 6-19=-903/287, 7-19=-148/859, 7-18=-1073/205,
10-17=-1009/283, 10-15=-60/604, 12-15=-473/203, 9-23=-403/65

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2, 294 lb uplift at joint 18 and 207 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904254
2839636	B4	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:20 2021 Page 1

ID:clow4Ylgf7iox0?iy?5BCcz33zm-jsESicSRAFOlZHTIm0lZS4lBZLsg9S_ccj8Eqiz_Pcz

-0-10-8	4-8-15	9-5-8	16-0-0	20-4-0	24-0-0	31-8-8	39-8-8
0-10-8	4-8-15	4-8-9	6-6-8	4-4-0	3-8-0	7-8-8	8-0-0

Scale = 1:71.1

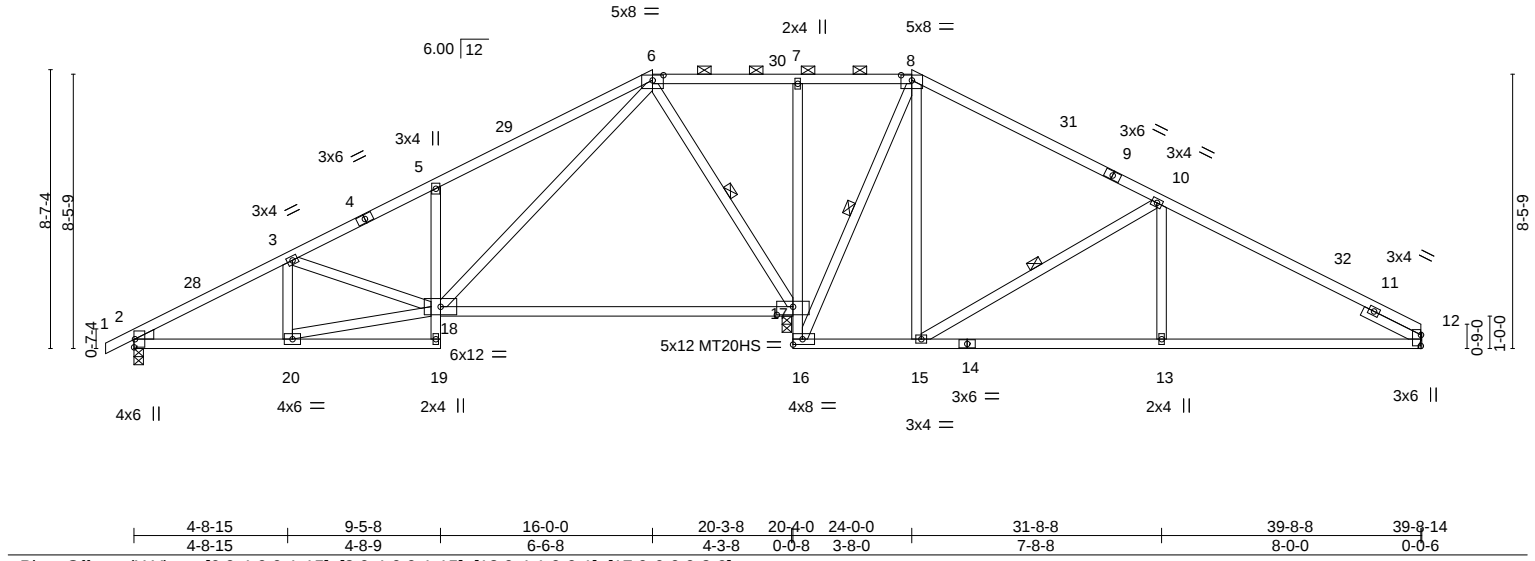


Plate Offsets (X,Y)--		[6:0-4-0,0-1-15], [8:0-4-0,0-1-15], [12:0-4-1,0-0-1], [17:0-6-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.26 17-18	>946	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.53 17-18	>465	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.03 17	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 184 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 17-18: 2x4 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2
 SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (10-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-17, 10-15, 8-16

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 12=Mechanical
 Max Horz 2=158(LC 12)
 Max Uplift 2=224(LC 12), 17=203(LC 12), 12=251(LC 13)
 Max Grav 2=1063(LC 25), 17=2495(LC 1), 12=935(LC 26)

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

TOP CHORD 2-3=-1550/341, 3-5=-1386/374, 5-6=-1490/519, 6-7=0/466, 7-8=0/463, 8-10=-373/332,
 10-12=-1196/418
 BOT CHORD 2-20=-383/1304, 5-18=-566/238, 16-17=-107/1093, 7-17=-344/126, 13-15=-274/1037,
 12-13=-274/1037
 WEBS 18-20=-304/1302, 6-17=-1150/242, 8-15=-95/657, 10-15=-1002/280, 10-13=0/334,
 8-16=-1197/133, 6-18=-352/1434

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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 16-0-0, Exterior(2R) 16-0-0 to 20-5-12, Interior(1) 20-5-12 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2, 203 lb uplift at joint 17 and 251 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904255
2839636	B5	Hip	1	1	Job Reference (optional)	

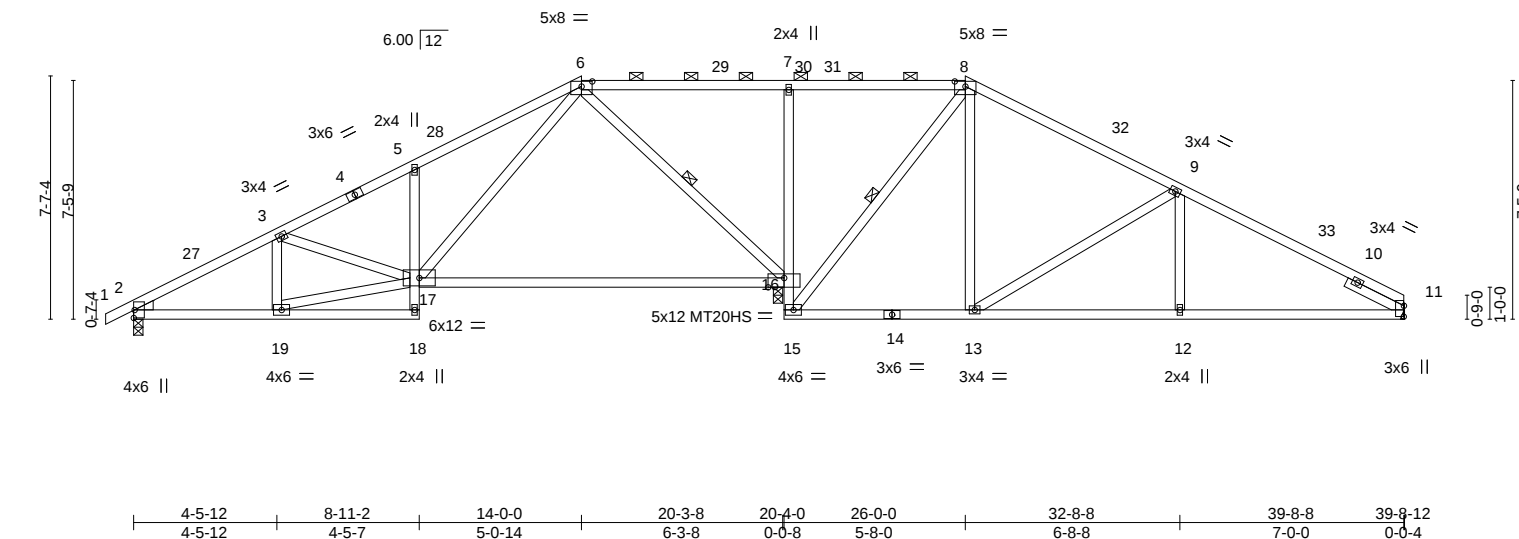
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:22 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-fFMD7Uhte3Dad7tRK1YvY_8XbdJqu41dLvcz_Pcx

-0-10-8	4-5-12	8-11-2	14-0-0	20-4-0	26-0-0	32-8-8	39-8-8
0-10-8	4-5-12	4-5-7	5-0-14	6-4-0	5-8-0	6-8-8	7-0-0

Scale = 1:72.0



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 0.70	Vert(LL)	-0.31 16-17	>800	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.62 16-17	>395	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.03 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2 *Except*	2-0-0 oc purlins (10-0-0 max.): 6-8.
16-17: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-16, 8-15
WEDGE	
Left: 2x4 SPF No.2	
SLIDER Right 2x4 SPF No.2 2-0-0	

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 16=0-3-8
Max Horz 2=140(LC 12)
Max Uplift 11=235(LC 13), 2=226(LC 12), 16=209(LC 12)
Max Grav 11=940(LC 26), 2=1081(LC 25), 16=2460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1595/348, 3-5=-1516/386, 5-6=-1559/491, 6-7=0/413, 7-8=0/415, 8-9=-589/323,
9-11=-1252/391
BOT CHORD 2-19=-375/1349, 5-17=-435/183, 16-17=-153/524, 15-16=-77/931, 7-16=-598/199,
13-15=-58/388, 12-13=-261/1098, 11-12=-261/1098
WEBS 3-19=-274/112, 17-19=-301/1384, 6-17=-265/1222, 6-16=-1187/234, 8-15=-1128/128,
8-13=-71/573, 9-13=-819/235, 9-12=0/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 39-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 11, 226 lb uplift at joint 2 and 209 lb uplift at joint 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904256
2839636	B6	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:24 2021 Page 1

ID:clow4Ylgl7iox0?ly?5BCcz33zm-beUzY_VyEUunSunW?smVdwwroyFd5tBtXL6SzUz_Pcv

0-10-8	3-11-6	6-11-6	12-0-0	16-2-0	20-4-0	28-0-0	33-8-8	39-8-8
0-10-8	3-11-6	3-0-0	5-0-10	4-2-0	4-2-0	7-8-0	5-8-8	6-0-0

Scale = 1:70.3

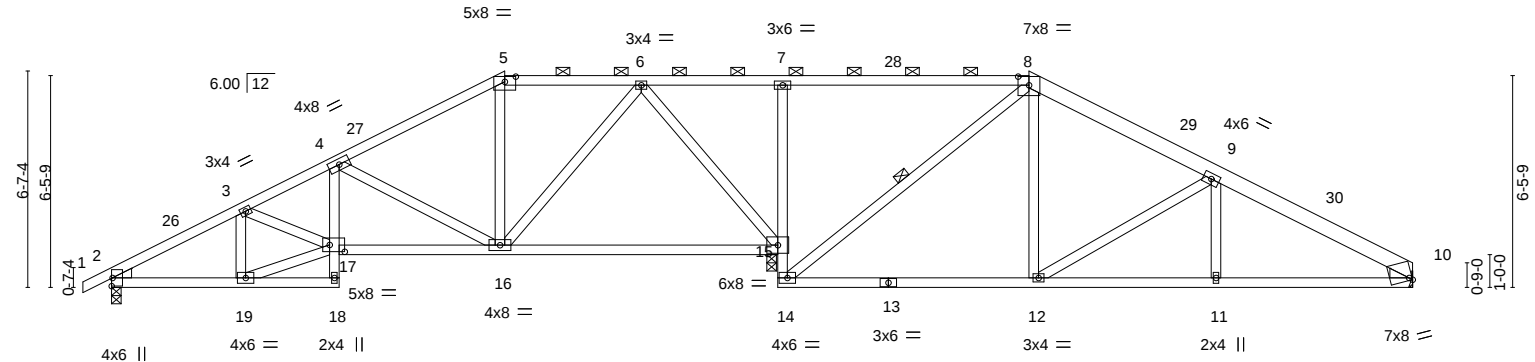


Plate Offsets (X,Y)--		[5:0-4-0,0-1-15], [8:0-4-0,0-3-3], [10:Edge,0-0-15], [17:0-5-8,0-2-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 20.0	Lumber DOL	1.15
BCLL 0.0	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	
TC 0.87	in (loc)	l/defl L/d
BC 0.68	Vert(LL) -0.09 12-14	>999 240
WB 0.92	Vert(CT) -0.20 12-14	>999 180
Matrix-AS	Horz(CT) 0.04 15	n/a n/a
	PLATES	GRIP
	MT20	197/144
	Weight: 183 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
8-10: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
15-17: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-11-7 max.): 5-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-14

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 10=Mechanical
Max Horz 2=121(LC 12)
Max Uplift 2=-185(LC 12), 15=-269(LC 9), 10=-190(LC 13)
Max Grav 2=1109(LC 25), 15=2399(LC 1), 10=964(LC 26)

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

TOP CHORD 2-3=-1636/267, 3-4=-1912/356, 4-5=-1110/227, 5-6=-903/236, 6-7=0/363, 7-8=0/326,
8-9=-864/249, 9-10=-1443/313
BOT CHORD 2-19=-289/1385, 4-17=-70/435, 16-17=-331/1734, 15-16=-59/439, 14-15=-42/812,
7-15=-604/191, 12-14=-30/670, 11-12=-205/1198, 10-11=-205/1198
WEBS 4-16=-942/278, 6-16=-93/729, 6-15=-1162/166, 8-12=-50/521, 9-12=-607/210,
3-19=-470/127, 17-19=-278/1335, 3-17=-26/327, 8-14=-1179/118

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-0, Interior(1) 16-2-0 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 39-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2, 269 lb uplift at joint 15 and 190 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904257
2839636	B7	Hip	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:25 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-4q1LIKWa_o0e42MiZatk98T2fMWhqzLm?s?Vxz_Pcu

-0-10-8	3-3-8	10-0-0	15-2-0	20-4-0	25-3-12	30-0-0	34-8-8	39-8-8
0-10-8	3-3-8	6-8-8	5-2-0	5-2-0	4-11-12	4-8-4	4-8-8	5-0-0

Scale = 1:71.9

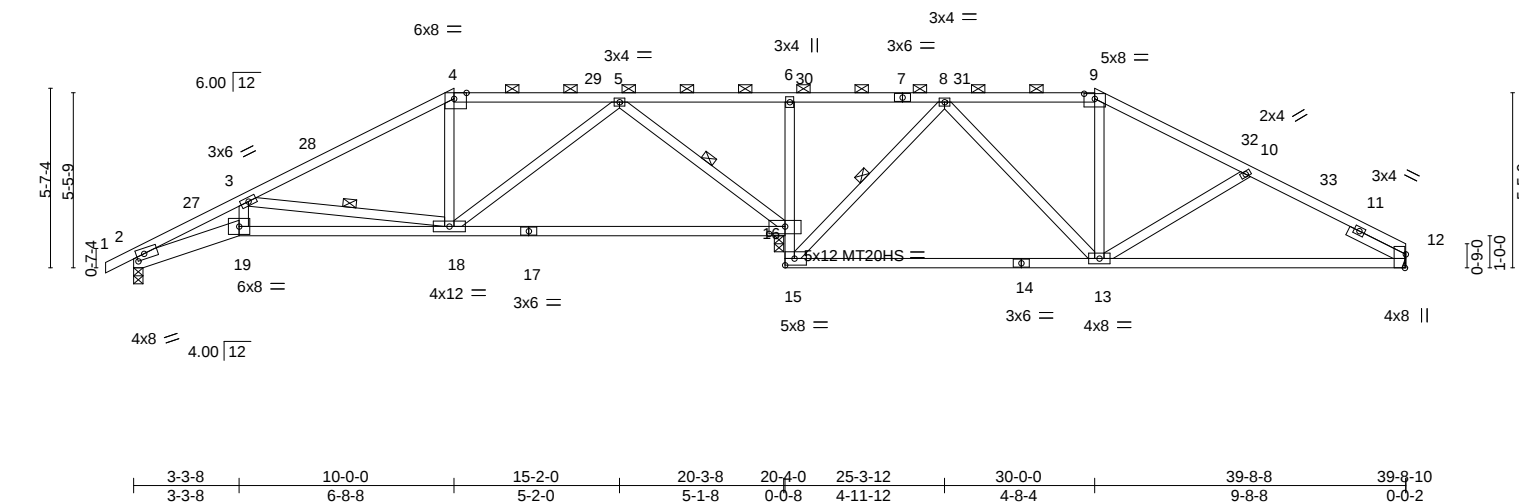


Plate Offsets (X,Y)--		[2:0-2-15,0-2-0], [4:0-4-10,Edge], [9:0-4-0,0-1-15], [12:0-5-1,Edge], [16:0-6-0,0-2-12]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 20.0	Lumber DOL	1.15
BCLL 0.0	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
	CSI.	
	TC	0.73
	BC	0.95
	WB	0.36
	Matrix-AS	
	DEFL.	
	in (loc)	l/defl
	Vert(LL)	-0.19 16-18 >999 240
	Vert(CT)	-0.40 13-15 >572 180
	Horz(CT)	0.12 16 n/a n/a
	PLATES	GRIP
	MT20	197/144
	MT20HS	148/108
	Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2 *Except*	2-0-0 oc purlins (5-0-3 max.): 4-9.
2-19: 2x6 SPF No.2, 16-17: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 3-18, 8-15, 5-16
SLIDER Right 2x4 SPF No.2 2-0-0	

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 16=0-3-8
Max Horz 2=105(LC 12)
Max Uplift 12=205(LC 13), 2=-209(LC 12), 16=320(LC 9)
Max Grav 12=960(LC 26), 2=1099(LC 25), 16=2418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3292/719, 3-4=-1456/295, 4-5=-1199/315, 5-6=-9/456, 6-8=0/399, 8-9=-862/299,
9-10=-1050/293, 10-12=-1396/360
BOT CHORD 2-19=-712/2967, 18-19=-678/2794, 16-18=-148/693, 15-16=-117/938, 6-16=-484/147,
13-15=-91/475, 12-13=-252/1197
WEBS 3-19=-116/709, 3-18=-1616/480, 10-13=-400/173, 8-13=-28/603, 8-15=-1174/212,
5-18=-71/657, 5-16=-1431/317

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 39-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 12, 209 lb uplift at joint 2 and 320 lb uplift at joint 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904258
2839636	B8	Roof Special	1	1		

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

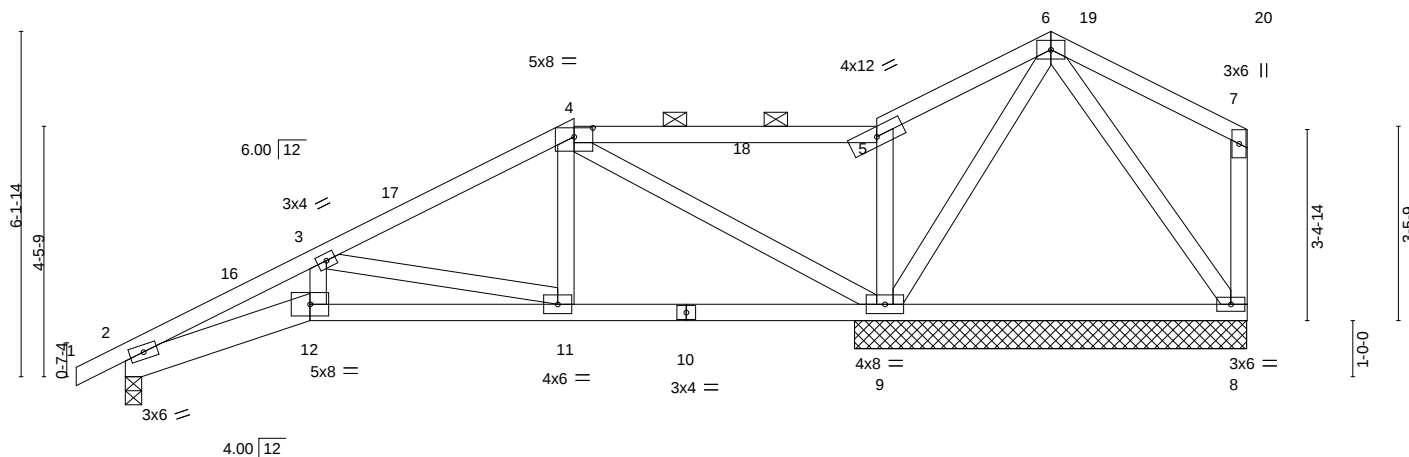
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:26 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-Y0bjzfXCl58VhCxu6HOziL?H0l_OZ6XU?fbY2Nz_Pct

0-10-8	3-3-8	8-0-0	13-4-12	16-6-0	20-0-0
0-10-8	3-3-8	4-8-8	5-4-12	3-1-4	3-6-0

4x6 =

Scale = 1:41.1



3-3-8	8-0-0	13-4-12	19-11-14	20-0-0
3-3-8	4-8-8	5-4-12	6-7-2	0-0-2

Plate Offsets (X,Y)--		[4:0-4-0,0-1-15]										
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	0.50	Vert(LL)	-0.05	11-12	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15		BC	0.41	Vert(CT)	-0.11	11-12	>999	180		
BCLL	0.0	Rep Stress Incr YES		WB	0.85	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-12: 2x6 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

All bearings 6-11-14 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=179(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2 except 8=199(LC 25), 9=319(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8 except 2=664(LC 1), 9=1598(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1583/348, 3-4=-557/119, 4-5=-205/601, 5-6=-197/728
 BOT CHORD 2-12=-521/1407, 11-12=-488/1307, 9-11=-161/416
 WEBS 3-12=-97/383, 3-11=-899/334, 4-11=-37/360, 4-9=-1171/344, 6-9=-909/273,
 6-8=-98/308

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-6-0, Exterior(2R) 16-6-0 to 19-6-0, Interior(1) 19-6-0 to 19-10-4 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2 except (jt=lb) 8=199, 9=319.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904259
2839636	B9	Half Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:27 2021 Page 1
ID:clow4Ylgf7iox0?ly?5BCcz33zm-0D96A?YqWPHMJLV5g_wCFZYPL9IYIdZeDJL6apz_Pcs

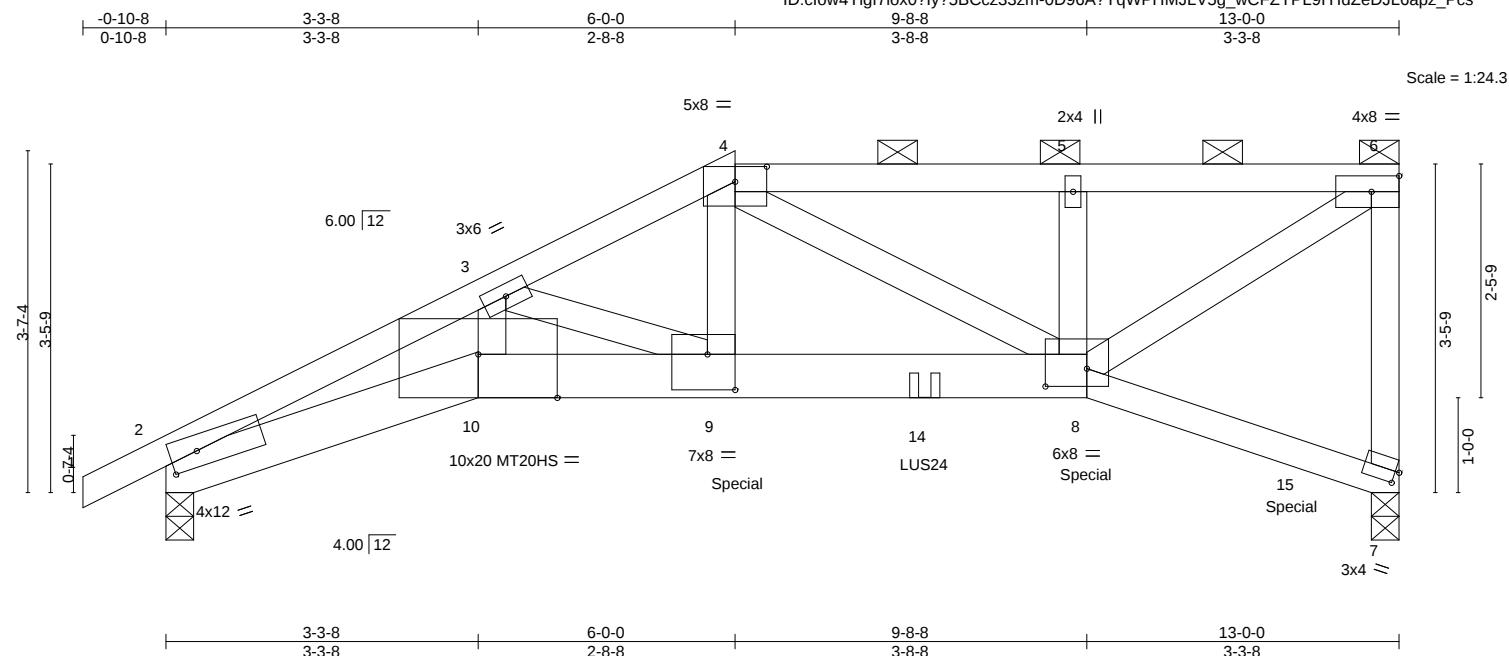


Plate Offsets (X,Y)-- [2:0-3-7,0-2-0], [4:0-4-0,0-1-15], [7:0-0-8,0-1-8], [8:0-5-4,0-2-4], [9:0-3-8,0-4-8], [10:0-10-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.09 9-10 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.19 9-10 >792 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.13 7 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS				Weight: 58 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E *Except*
7-8: 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-4 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 2=0-3-8
Max Horz 2=137(LC 7)
Max Uplift 7=489(LC 5), 2=323(LC 8)
Max Grav 7=1789(LC 1), 2=1449(LC 1)

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

TOP CHORD 2-3=-4357/1033, 3-4=-3322/844, 4-5=-2097/559, 5-6=-2071/549, 6-7=-1539/431
BOT CHORD 2-10=-1029/3892, 9-10=-978/3698, 8-9=-804/2889
WEBS 3-10=-159/694, 4-8=-920/258, 5-8=-362/119, 6-8=-689/2476, 4-9=-419/1590, 3-9=-756/221

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) 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) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=489, 2=323.
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 8-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 827 lb up at 6-0-0, and 306 lb down and 119 lb up at 9-8-8, and 307 lb down and 118 lb up at 12-0-0 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

Continued on page 2



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904259
2839636	B9	Half Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:27 2021 Page 2
ID:clow4Ylgt7iox0?ly?5BCcz33zm-0D96A?YqWPHMJLV5g_wCFZYPL9lYldZeDJL6apz_Pcs

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 4-6=-90, 10-11=-20, 8-10=-20, 7-8=-20
Concentrated Loads (lb)
Vert: 8=-306(B) 9=-827(B) 14=-306(B) 15=-307(B)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904260
2839636	C1	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:29 2021 Page 1

ID:clow4Ylgf7ioX0?ly?5BCcz33zm-ybHsbhZ420X4YffToPygK_dk5zmmVvwhdqDfiz_Pcq

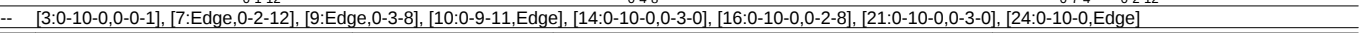
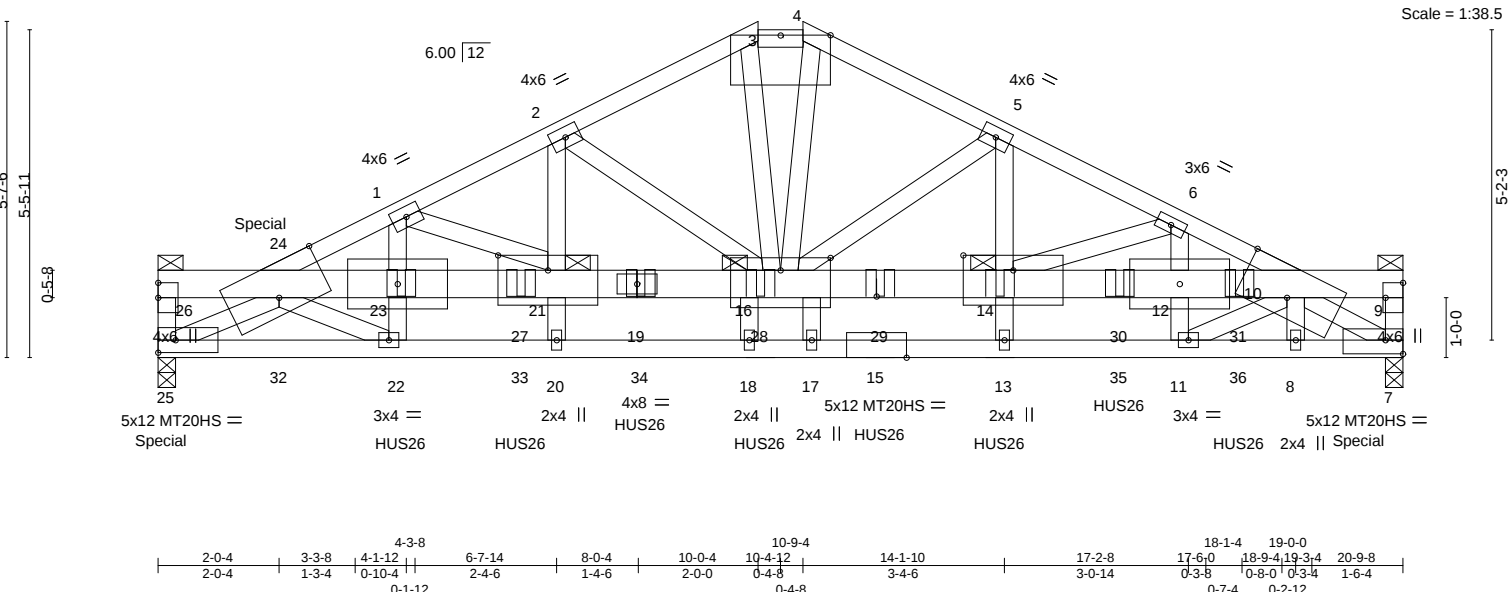


Plate Offsets (X,Y)--	[3:0-10-0,0-0-1], [7:Edge,0-2-12], [9:Edge,0-3-8], [10:0-9-11,Edge], [14:0-10-0,0-3-0], [16:0-10-0,0-2-8], [21:0-10-0,0-3-0], [24:0-10-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.13 16-21	>999	240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.26 16-21	>939	180	MT20HS	148/108	
BCLL 0.0	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.11 7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 273 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-14 max.): 3-4.
BOT CHORD 2x6 SPF 2100F 1.8E *Except* 15-25,7-15: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 24-26, 9-10
WEBS 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 26, 9, 21, 16, 14
REACTIONS. (size) 25=0-3-8, 7=0-3-8	
Max Horz 25=86(LC 26)	
Max Uplift 25=-1115(LC 8), 7=-1195(LC 9)	
Max Grav 25=6830(LC 1), 7=6349(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 25-26=-1128/165, 1-24=-10185/1719, 1-2=-8317/1519, 2-3=-5905/1182, 3-4=-5477/1124, 4-5=-5905/1185, 5-6=-7969/1704, 6-10=-9566/2137, 7-9=-1015/166	
BOT CHORD 24-26=-468/65, 23-24=-816/409, 21-23=-816/409, 16-21=-1856/494, 14-16=-2092/351, 12-14=-1244/90, 10-12=-1244/90, 9-10=-557/110, 22-25=-1773/9785, 20-22=-1732/9263, 18-20=-1732/9263, 17-18=-1754/9189, 13-17=-1760/9171, 11-13=-1760/9171, 8-11=-1801/9018, 7-8=-1772/8921	
WEBS 1-21=-1493/183, 2-21=-324/2374, 2-16=-2623/439, 5-16=-2230/646, 5-14=-519/1981, 16-18=0/253, 24-25=-10741/1915, 22-23=0/535, 22-24=-777/58, 1-23=-219/1977, 3-16=-497/2344, 4-16=-498/2353, 8-10=-492/163, 7-10=-9642/1917, 10-11=-39/433, 6-12=-426/1702, 6-14=-1204/370	

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 24-25 2x4 - 1 row at 0-7-0 oc, member 10-7 2x4 - 1 row at 0-7-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 10x20 MT20HS unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=1115, 7=1195.



July 8, 2021

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904260
2839636	C1	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:29 2021 Page 2
ID:clow4Ylgf7iox0?ly?5BCcz33zm-ybHsbhZ420X4YffToPygK_dk5zmmVVwhdqDfiz_Pcq

- NOTES-**
- 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 HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 18-0-12 to connect truss(es) to front face of bottom chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down at 0-0-12, and 1568 lb down and 403 lb up at 2-0-7, and 854 lb down and 147 lb up at 20-0-12 on top 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: 3-24=-90, 3-4=-90, 4-10=-90, 24-26=-160, 9-10=-160, 25-32=-160, 22-32=-110, 8-22=-20, 7-8=-160

Concentrated Loads (lb)

Vert: 19=-1024(F) 14=-880(F) 24=-1623(F) 23=-1001(F) 10=-854(F) 27=-1024(F) 28=-900(F) 29=-904(F) 30=-875(F) 31=-903(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904261
2839636	C2	Hip	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:30 2021 Page 1

ID:clow4Ylgr7iox0?ly?5BCcz33zm-QorEo1ajpKfxApEgLTvsBA_rNJcV5m4vH2mB8z_Pcp

0-10-8	4-2-9	8-4-12	12-4-12	16-6-15	20-9-8	21-8-0
0-10-8	4-2-9	4-2-3	4-0-0	4-2-3	4-2-9	0-10-8

Scale = 1:37.3

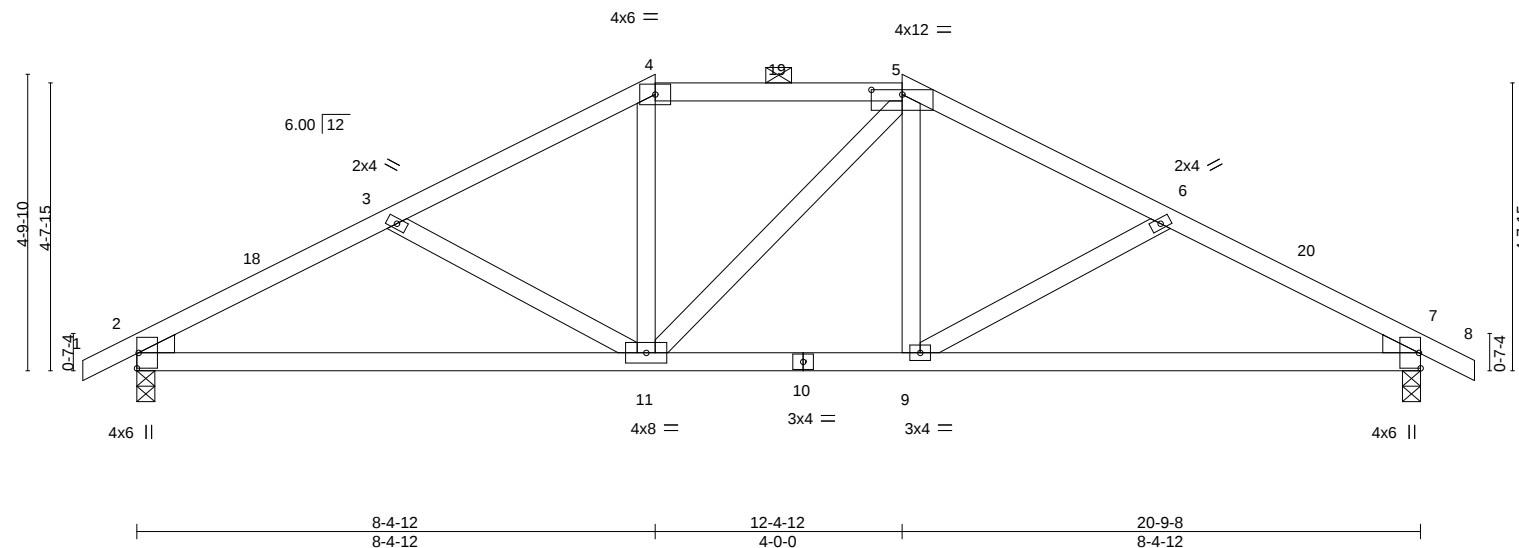


Plate Offsets (X,Y)-- [5:0-6-0,0-0-15]		8-4-12		12-4-12		20-9-8	
		8-4-12		4-0-0		8-4-12	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.08 9-17	>999	240
TCDL 20.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.18 9-17	>999	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.05 7	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES		GRIP	
				MT20		197/144	
				Weight: 80 lb		FT = 20%	

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-11-8 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-80(LC 17)
Max Uplift 2=-178(LC 12), 7=-178(LC 13)
Max Grav 2=1222(LC 1), 7=1222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1874/336, 3-4=-1556/288, 4-5=-1319/295, 5-6=-1555/288, 6-7=-1874/336
BOT CHORD 2-11=-260/1602, 9-11=-130/1319, 7-9=-238/1602
WEBS 3-11=-328/154, 4-11=-22/310, 5-9=-25/310, 6-9=-328/154

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-12, Exterior(2E) 8-4-12 to 12-4-12, Exterior(2R) 12-4-12 to 16-8-14, Interior(1) 16-8-14 to 21-8-0 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178, 7=178.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	146904262
2839636	C3	Hip Girder	1	1	Job Reference (optional)	

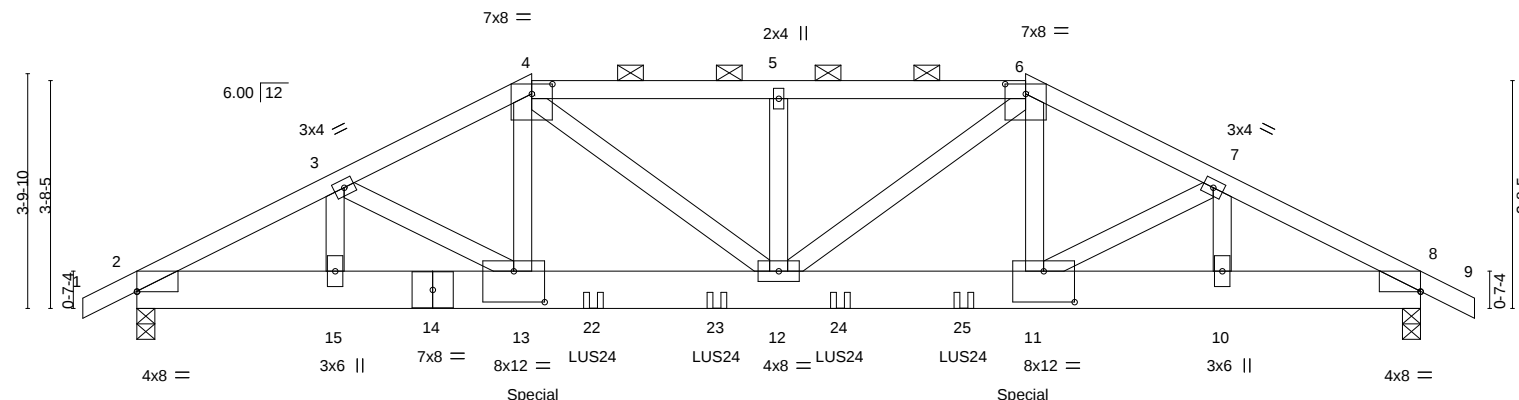
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:32 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-MAY?DjbzLxveP7O2TYVnycFE_A2Izy7NNb2tF1z_Pcn

0-10-8	3-2-9	6-4-12	10-4-12	14-4-12	17-6-15	20-9-8	21-8-0
0-10-8	3-2-9	3-2-3	4-0-0	4-0-0	3-2-3	3-2-9	0-10-8

Scale = 1:37.3



	3-2-9	6-4-12	10-4-12	14-4-12	17-6-15	20-9-8	
	3-2-9	3-2-3	4-0-0	4-0-0	3-2-3	3-2-9	
Plate Offsets (X,Y)--	[2:0-0-0,0-0-1], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-0-0,0-0-1], [11:0-6-0,0-6-0], [13:0-6-0,0-6-0]						

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.13	12	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.28	12	>906	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.33	Horz(CT)	0.04	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 123 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
4-6: 2x4 SPF 1650F 1.5E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-2 oc purlins, except
2-0-0 oc purlins (2-8-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-62(LC 34)
Max Uplift 2=-653(LC 8), 8=-653(LC 9)
Max Grav 2=2768(LC 1), 8=2768(LC 1)

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

TOP CHORD 2-3=-4795/1151, 3-4=-5144/1280, 4-5=-5253/1279, 5-6=-5253/1279, 6-7=-5144/1280,
7-8=-4795/1153
BOT CHORD 2-15=-1030/4235, 13-15=-1030/4235, 12-13=-1080/4534, 11-12=-1018/4534,
10-11=-969/4235, 8-10=-969/4235
WEBS 3-15=-528/158, 3-13=-258/546, 4-13=-362/1351, 4-12=-263/1009, 5-12=-483/151,
6-12=-263/1009, 6-11=-362/1352, 7-11=-259/546, 7-10=-528/157

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=653, 8=653.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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 7-4-12 from the left end to 13-4-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 890 lb down and 308 lb up at 6-4-12, and 890 lb down and 308 lb up at 14-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



July 8, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904262
2839636	C3	Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:32 2021 Page 2
ID:clow4YlGf7iox0?ly?5BCcz33zm-MAy?DjbzLxveP7O2TYVNycFE_A2lzy7NNb2tF1z_Pcn

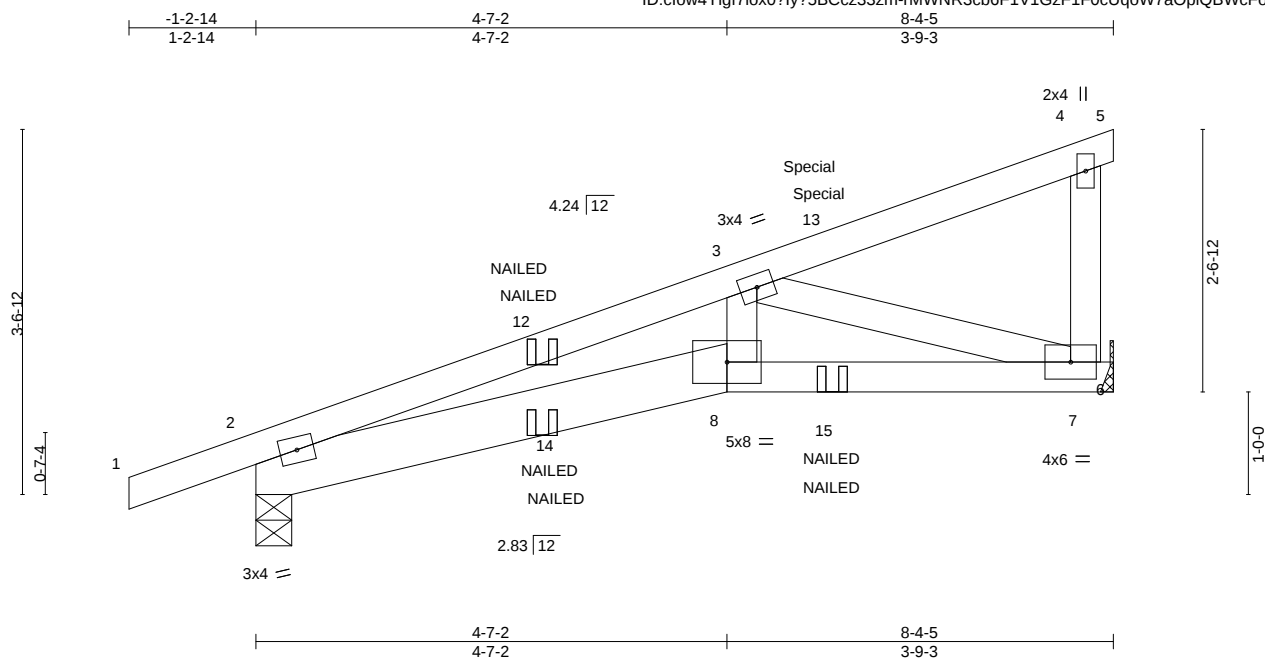
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 4-6=-90, 6-9=-90, 16-19=-20
Concentrated Loads (lb)
Vert: 13=-890(B) 11=-890(B) 22=-328(B) 23=-328(B) 24=-328(B) 25=-328(B)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904263
2839636	CJ1	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:33 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-rMWNr3cb6F1V1GzF1F0cUqoW7aOpiQBWcFoQoTz_Pcm



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.03	8	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.06	8	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 31 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-8: 2x6 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-3, 7=Mechanical
 Max Horz 2=129(LC 5)
 Max Uplift 2=139(LC 4), 7=134(LC 8)
 Max Grav 2=606(LC 1), 7=549(LC 1)

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

TOP CHORD 2-3=-1349/296
 BOT CHORD 2-8=-320/1245, 7-8=-303/1168
 WEBS 3-8=-37/335, 3-7=-1217/339

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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 7=134.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 92 lb up at 5-7-7, and 112 lb down and 92 lb up at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-90, 4-5=-40, 8-9=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 13=-140(F=-70, B=-70) 14=2(F=1, B=1)



July 8, 2021

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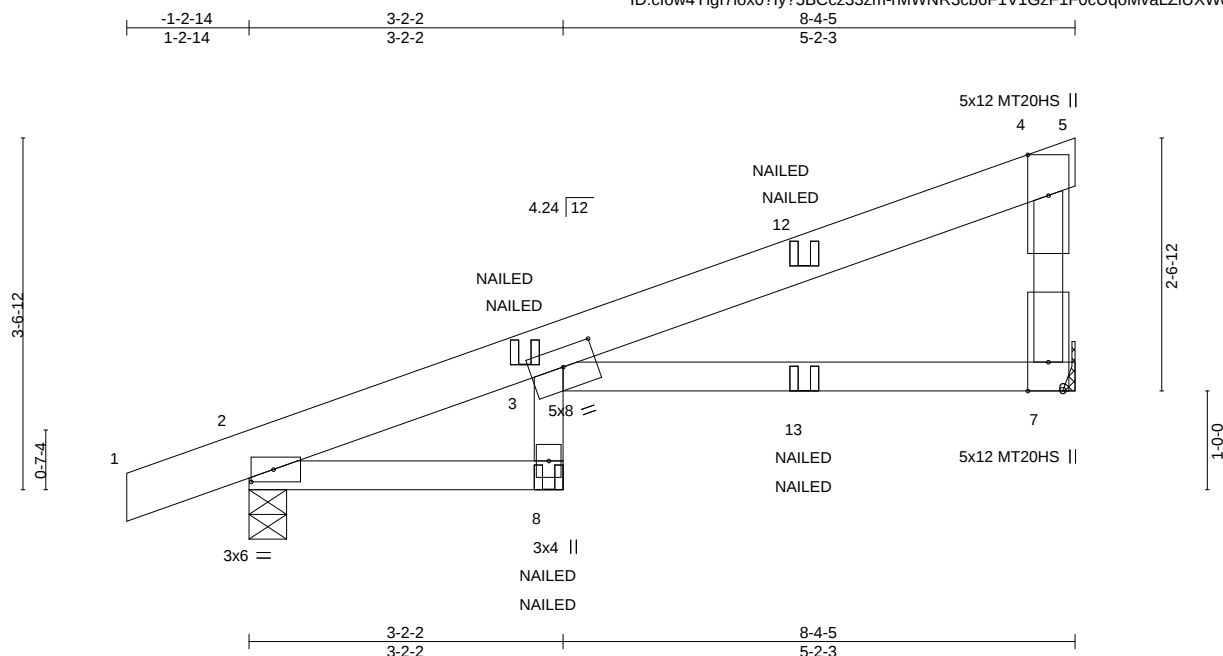
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2839636	Truss CJ2	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904264
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:33 2021 Page 1

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Scale = 1:23.3

Plate Offsets (X,Y)--		[2:0-2-11,0-1-8], [3:0-4-0,0-2-4]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.91		Vert(LL) 0.15 3-7	>668 240	MT20	197/144
TCDL 20.0		Lumber DOL	1.15	BC 0.57		Vert(CT) -0.30 3-7	>324 180	MT20HS	148/108
BCLL 0.0		Rep Stress Incr	NO	WB 0.00		Horz(CT) 0.14 7	n/a n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-MR				Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=127(LC 5)
Max Uplift 7=152(LC 8), 2=159(LC 4)
Max Grav 7=538(LC 1), 2=607(LC 1)

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

TOP CHORD 3-10=-251/33, 3-4=-285/54, 4-7=-360/124
BOT CHORD 3-7=-87/270

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) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=152, 2=159.
- 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 guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-5=-40, 8-9=-20, 3-6=-20
Concentrated Loads (lb)
Vert: 8=-12(F=-6, B=-6) 12=-10(F=-5, B=-5) 13=-106(F=-53, B=-53)



July 8, 2021

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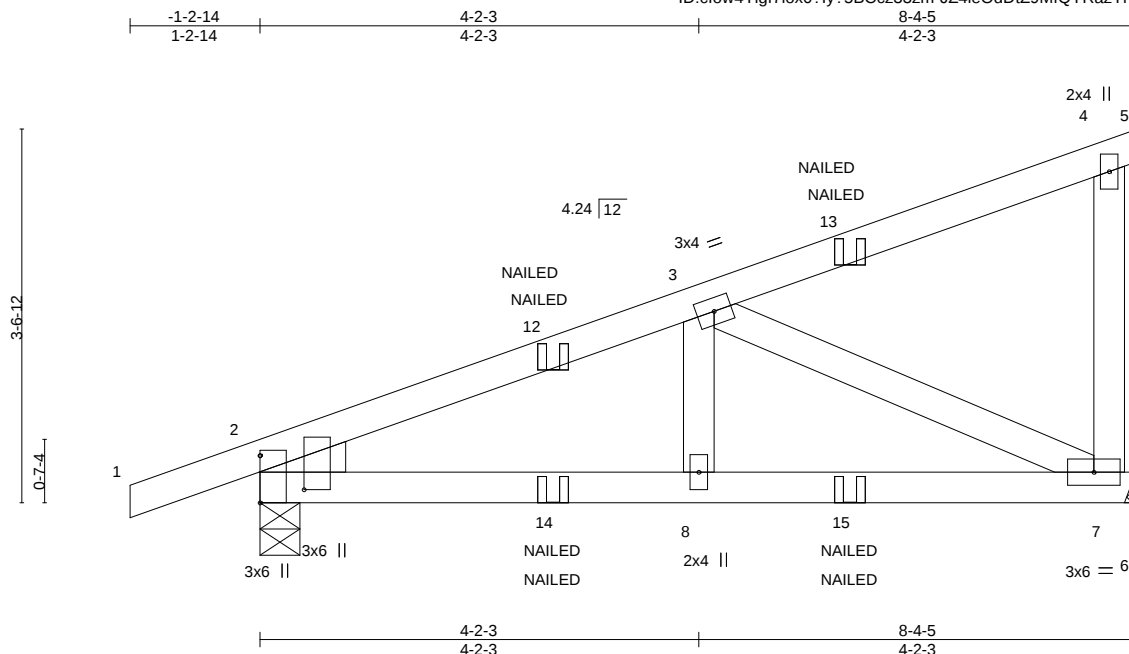
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss CJ2A	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904265
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:34 2021 Page 1

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Scale = 1:21.9

Plate Offsets (X,Y)--		[2:0-3-14,0-5-0]											
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	0.29	Vert(LL)	0.02	7-8	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.04	7-8	>999	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	7	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 32 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=149(LC 7)
Max Uplift 7=-151(LC 8), 2=-161(LC 4)
Max Grav 7=523(LC 1), 2=601(LC 1)

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

TOP CHORD 2-3=-740/178
BOT CHORD 2-8=-205/655, 7-8=-205/655
WEBS 3-7=-720/240

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 grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=151, 2=161.
- 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 guidelines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 4-5=-40, 6-9=-20
Concentrated Loads (lb)
Vert: 13=-7(F=-3, B=-3) 14=-12(F=-6, B=-6) 15=-88(F=-44, B=-44)



July 8, 2021

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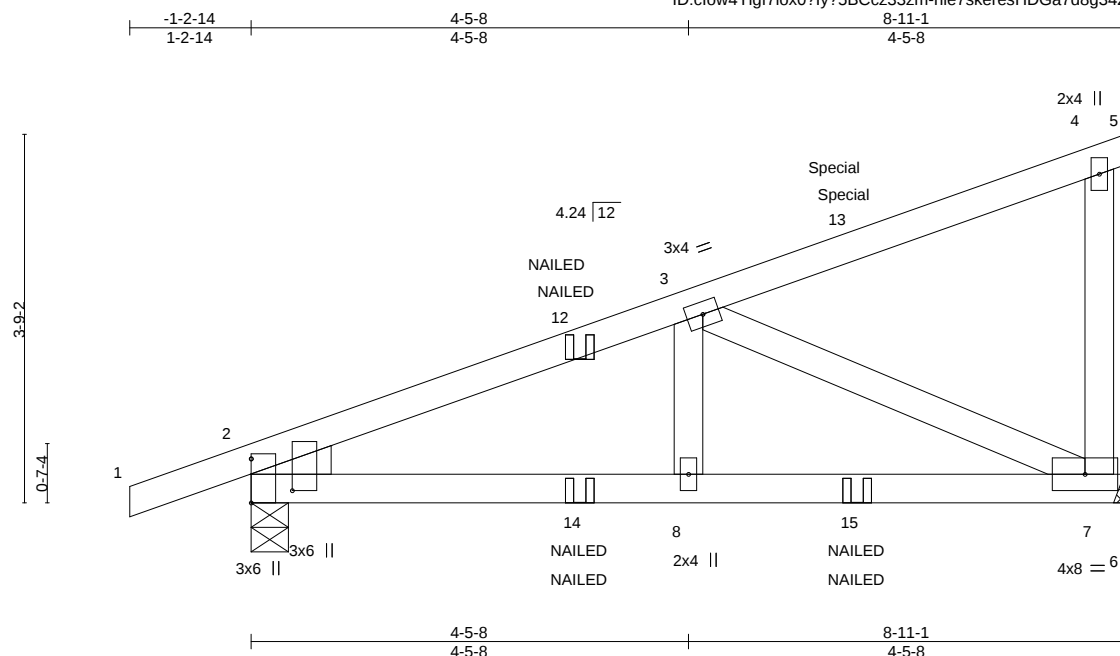


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904266
2839636	CJ3	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:35 2021 Page 1
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Scale = 1:23.5

Plate Offsets (X,Y)--		[2:0-3-14,0-5-0]									
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	0.42	Vert(LL)	-0.02	7-8	>999	240	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	7-8	>999	180	
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	7	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							
											Weight: 34 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=Mechanical, 2=0-4-9
Max Horz 2=143(LC 7)
Max Uplift 7=-173(LC 8), 2=-170(LC 4)
Max Grav 7=591(LC 1), 2=646(LC 1)

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

TOP CHORD 2-3=-842/201
BOT CHORD 2-8=-229/750, 7-8=-229/750
WEBS 3-7=-822/275

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 100 lb uplift at joint(s) except (jt=lb) 7=173, 2=170.
- 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 guidelines.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 82 lb up at 6-2-3, and 80 lb down and 82 lb up at 6-2-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-90, 4-5=-40, 6-9=-20
Concentrated Loads (lb)
Vert: 13=-68(F=-34, B=-34) 14=-18(F=-9, B=-9) 15=-72(F=-36, B=-36)



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

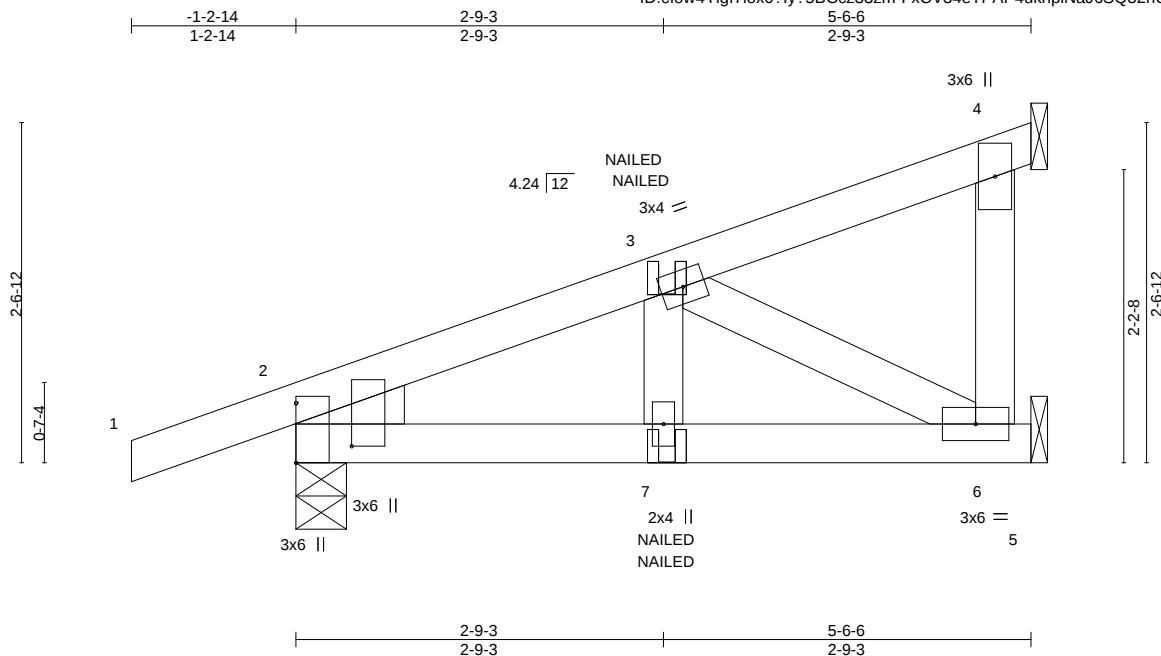
Job 2839636	Truss CJ4	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904267
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:36 2021 Page 1

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Scale = 1:17.3

Plate Offsets (X,Y)-- [2:0-3-14,0-5-0]										
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	0.15	Vert(LL)	-0.00 7 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01 7 >999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00 6 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 6=Mechanical, 2=0-4-9
Max Horz 2=102(LC 7)
Max Uplift 4=27(LC 8), 6=40(LC 8), 2=113(LC 4)
Max Grav 4=96(LC 1), 6=191(LC 1), 2=418(LC 1)

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

TOP CHORD 2-3=-353/75
BOT CHORD 2-7=-80/309, 6-7=-80/309
WEBS 3-6=-347/109

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 100 lb uplift at joint(s) 4, 6 except (jt=lb) 2=113.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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: 1-4=-90, 5-8=-20
- Concentrated Loads (lb)
Vert: 7=-9(F=-6, B=-3)



July 8, 2021

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

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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

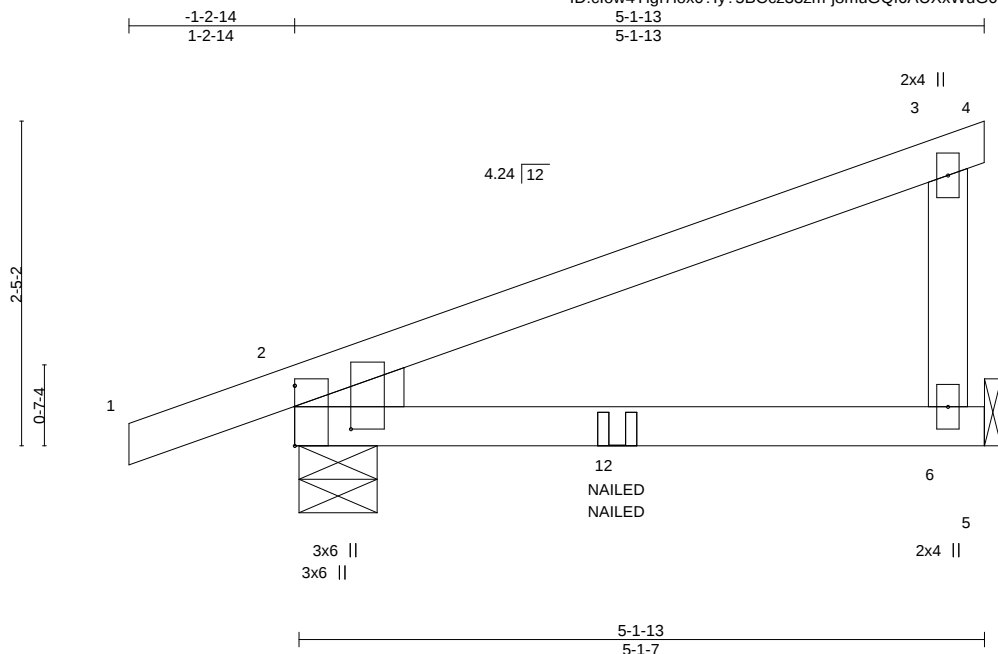
Job 2839636	Truss CJ5	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904268
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:37 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-j8muGQf6AUXxWuG0G55YfyAYBmVeHX6WtmexEz_Pci



Scale = 1:17.2

Plate Offsets (X,Y)--		[2:0-3-14,0-5-0]									
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	0.42	Vert(LL)	0.04 6-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07 6-11	>862	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01 2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-7-0
Max Horz 2=98(LC 7)
Max Uplift 6=89(LC 8), 2=146(LC 4)
Max Grav 6=281(LC 1), 2=466(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; 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 100 lb uplift at joint(s) 6 except (jt=lb) 2=146.
- 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 guidelines.
- 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: 1-3=-90, 3-4=-40, 5-7=-20
Concentrated Loads (lb)
Vert: 12=-82(F=-41, B=-41)



July 8, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

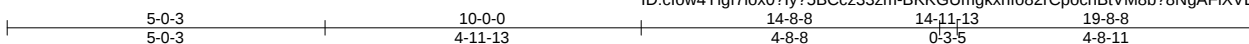
Job 2839636	Truss D1	Truss Type Common	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO 146904269
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:38 2021 Page 1

ID:clow4YlGf7ioX0?ly?5BCcz33zm-BKKGUmGkxnf082rCpocnBtVM8b?8NgAFIXVBTgz_Pch



4x8 =

Scale = 1:36.3

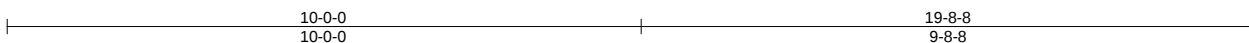
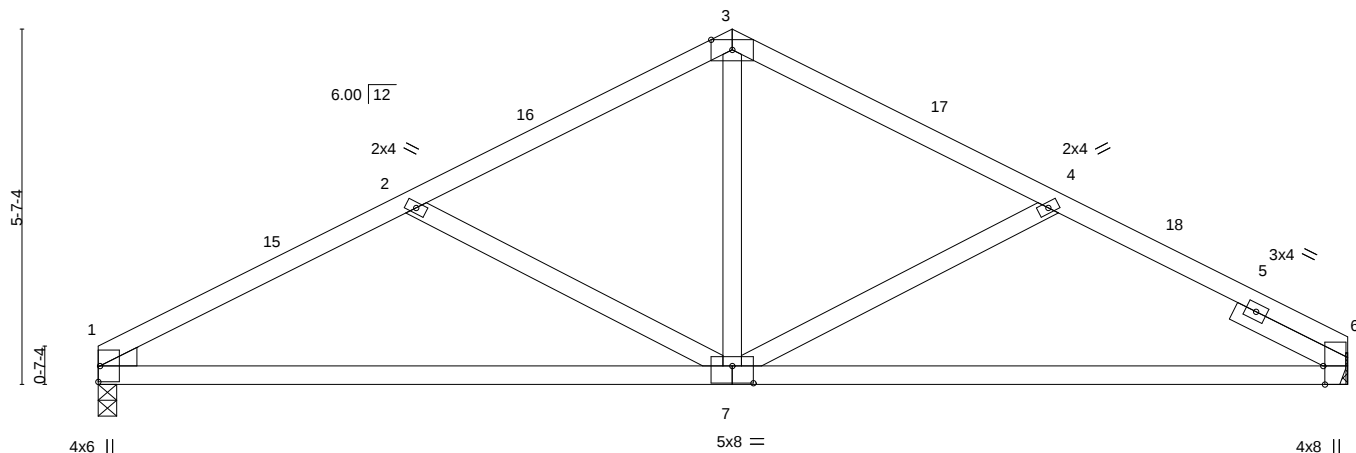


Plate Offsets (X,Y)-- [6:0-3-8,Edge], [7:0-4-0,0-3-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.14 7-14 >999	240	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.29 7-14 >817	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.05 6 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 69 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 6=Mechanical, 1=0-3-8
Max Horz 1=92(LC 12)
Max Uplift 6=144(LC 13), 1=146(LC 12)
Max Grav 6=1084(LC 1), 1=1084(LC 1)

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

TOP CHORD 1-2=-1740/373, 2-3=-1293/294, 3-4=-1288/293, 4-6=-1639/363
BOT CHORD 1-7=-276/1485, 6-7=-255/1412
WEBS 2-7=-508/208, 3-7=-83/607, 4-7=-436/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-8-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=144, 1=146.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 8, 2021

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

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



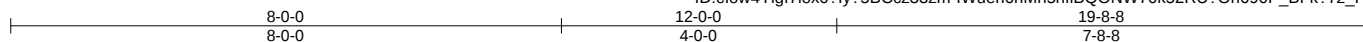
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904270
2839636	D1A	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:39 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-fWueh6hMh5nflBQONW70k52RU?On690P_BFk?7z_Pcg



Scale = 1:33.5

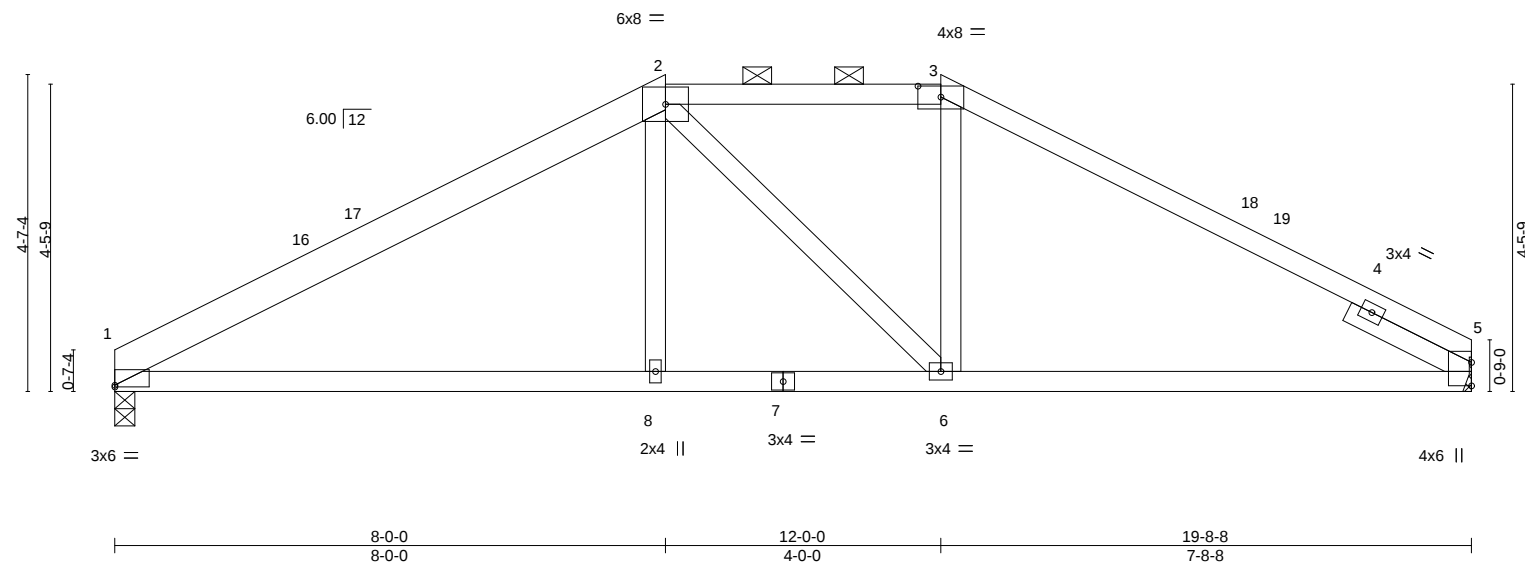


Plate Offsets (X,Y)-- [1:0-0-0,0-0-5], [3:0-4-0,0-1-15]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.07 8-11 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.18 8-11 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03 5 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 71 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
1-2: 2x6 SPF No.2	2-0-0 oc purlins (4-10-3 max.): 2-3.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Right 2x4 SPF No.2 2-0-0	

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=76(LC 12)
Max Uplift 1=-132(LC 12), 5=-129(LC 13)
Max Grav 1=1084(LC 1), 5=1084(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1569/277, 2-3=-1271/312, 3-5=-1475/287
BOT CHORD 1-8=-172/1300, 6-8=-173/1296, 5-6=-167/1274
WEBS 3-6=-6/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 19-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=132, 5=129.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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



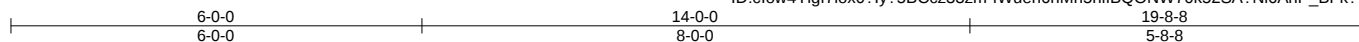
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904271
2839636	D2	Hip	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:39 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-fWueh6hMh5nflBQONW70k52SA?Ni6AnP_BFk?7z_Pcg



Scale = 1:33.6

9x12 MT18HS ==

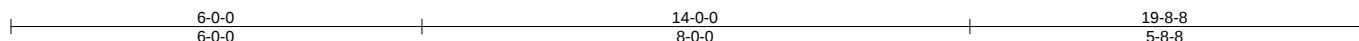
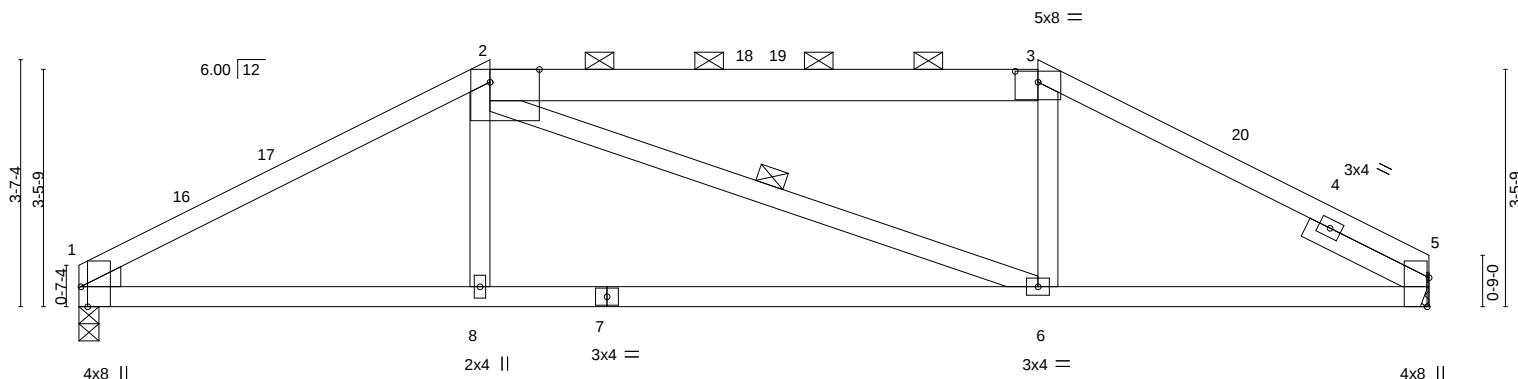


Plate Offsets (X,Y)--		[1:0-3-8,Edge], [2:0-8-10,Edge], [3:0-4-0,0-1-15], [5:0-5-1,Edge]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL		1.15		TC 0.67		Vert(LL)		-0.12 6-8 >999 240		MT20		197/144	
TCDL	20.0	Lumber DOL		1.15		BC 0.58		Vert(CT)		-0.30 6-8 >799 180		MT18HS		197/144	
BCLL	0.0	Rep Stress Incr		YES		WB 0.08		Horz(CT)		0.06 5 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014				Matrix-AS						Weight: 71 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
2-3: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-5-15 max.): 2-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-6

REACTIONS.

(size) 5=Mechanical, 1=0-3-8
Max Horz 1=55(LC 12)
Max Uplift 5=145(LC 13), 1=148(LC 12)
Max Grav 5=1084(LC 1), 1=1084(LC 1)

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

TOP CHORD 1-2=-1777/296, 2-3=-1431/300, 3-5=-1677/289
BOT CHORD 1-8=-204/1503, 6-8=-207/1496, 5-6=-187/1438
WEBS 2-8=0/294, 3-6=0/295

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 19-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=145, 1=148.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss D3	Truss Type Hip Girder	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO 146904272
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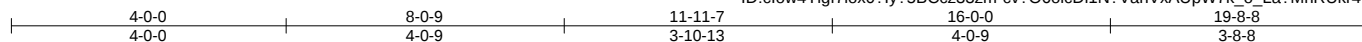
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:41 2021 Page 1

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Job Reference (optional)



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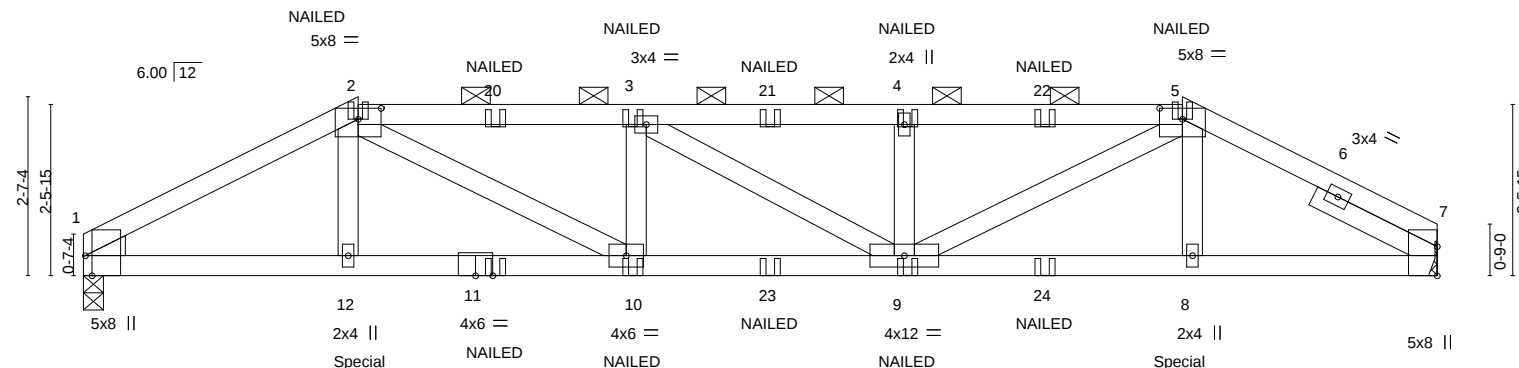


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [2:0-4-0,0-1-15], [5:0-4-0,0-1-15]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.14 9-10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.31 9-10	>772	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 73 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
WEDGE Left: 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins, except
2-0-0 oc purlins (2-3-9 max.): 2-5.
BOT CHORD Rigid ceiling directly applied or 7-7-13 oc bracing.

REACTIONS.

(size) 7=Mechanical, 1=0-3-8
Max Horz 1=37(LC 29)
Max Uplift 7=377(LC 9), 1=373(LC 8)
Max Grav 7=1595(LC 1), 1=1582(LC 1)

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

TOP CHORD 1-2=-2776/679, 2-3=-3655/922, 3-4=-3618/911, 4-5=-3620/912, 5-7=-2599/647
BOT CHORD 1-12=-588/2412, 10-12=-587/2399, 9-10=-901/3653, 8-9=-520/2248, 7-8=-520/2259
WEBS 2-12=-17/258, 2-10=-400/1483, 3-10=-506/193, 4-9=-528/197, 5-9=-425/1607

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=377, 1=373.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 215 lb down and 93 lb up at 4-0-0, and 215 lb down and 93 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



July 8, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904272
2839636	D3	Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:41 2021 Page 2
ID:clow4Ylgf7iox0?ly?5BCcz33zm-cv?O6oicDi1N?VanVxAUpW7k_o_La?MhRUkr4?z_Pce

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-90, 2-5=-90, 5-7=-90, 13-17=-20

Concentrated Loads (lb)

Vert: 2=-45(B) 5=-45(B) 11=-53(B) 12=-215(B) 10=-53(B) 3=-45(B) 4=-45(B) 9=-53(B) 8=-215(B) 20=-45(B) 21=-45(B) 22=-45(B) 23=-53(B) 24=-53(B)

 **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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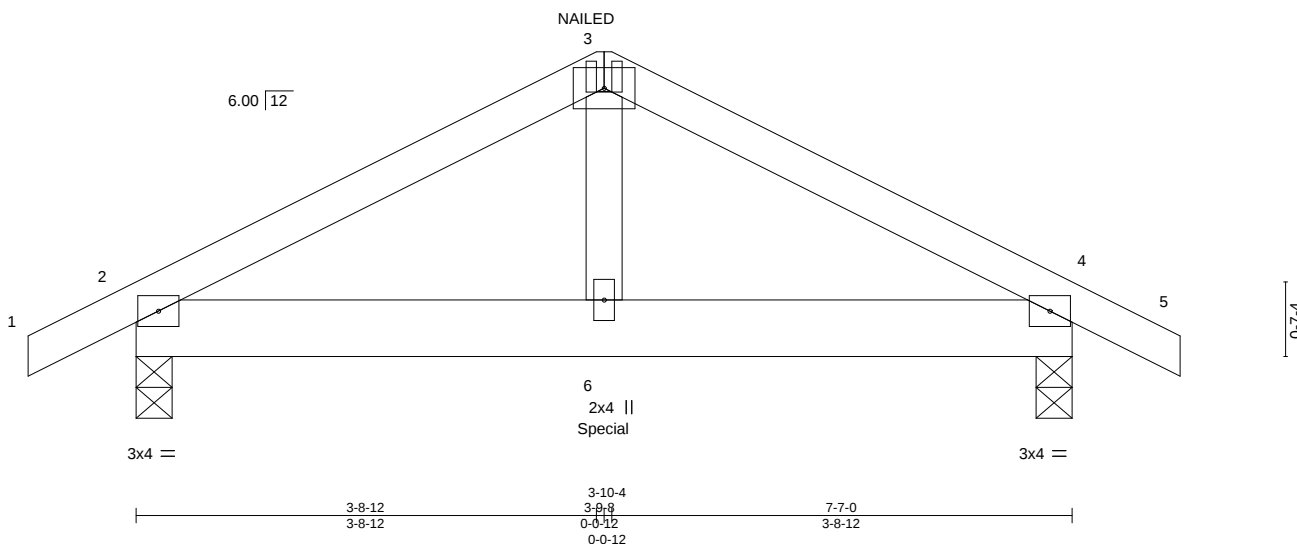
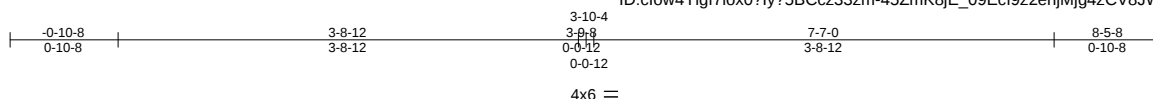
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904273
2839636	E1	Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:42 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-45ZmK8jE_09Ec9z2ehjMjg4zCV8JWXrg8TPcRz_Pcd



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 0.25	Vert(LL)	-0.01 6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.02 6	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-41(LC 34)
Max Uplift 2=-200(LC 8), 4=-200(LC 9)
Max Grav 2=789(LC 1), 4=789(LC 1)

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

TOP CHORD 2-3=-1055/301, 3-4=-1055/300
BOT CHORD 2-6=-228/870, 4-6=-228/870
WEBS 3-6=-170/586

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 4=200.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 553 lb down and 258 lb up at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-5=-90, 7-10=-20
Concentrated Loads (lb)
Vert: 3=-34(B) 6=-553(B)



July 8, 2021

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

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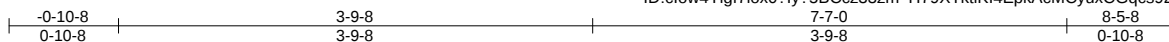


16023 Swingley Ridge Rd
Chesterfield, MO 63017

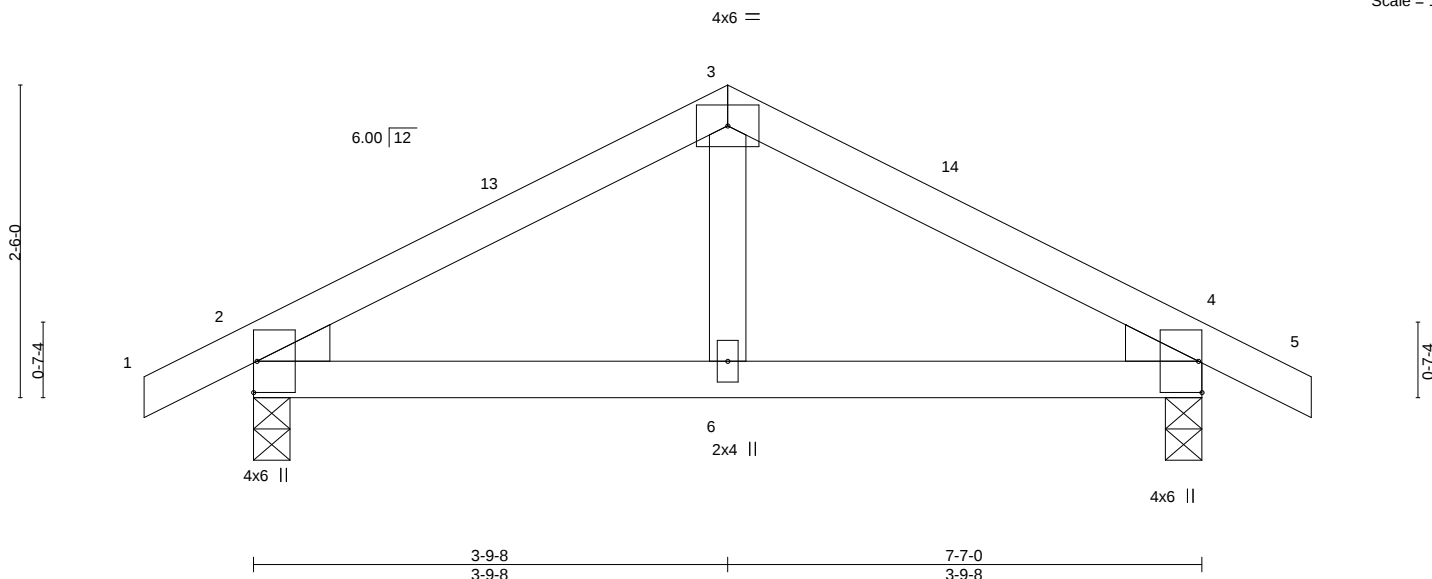
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904274
2839636	E2	Common	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:43 2021 Page 1
ID:clow4Ylgf7iox0?ly?5BCcz33zm-YI79XTktIKI4EpKAcMCyuxCGqcs92?R_voDy8uz_Pcc



Scale = 1:18.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	6-9	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.01	6-9	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 24 lb	FT = 20%

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=41(LC 12)

Max Uplift 2=-76(LC 12), 4=-76(LC 13)

Max Grav 2=496(LC 1), 4=496(LC 1)

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

TOP CHORD 2-3=-484/221, 3-4=-484/221

BOT CHORD 2-6=-83/368, 4-6=-83/368

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-8, Exterior(2R) 3-9-8 to 6-11-11, Interior(1) 6-11-11 to 8-5-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss J1	Truss Type Jack-Closed	Qty 12	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904275
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Builders FirstSource (Valley Center),

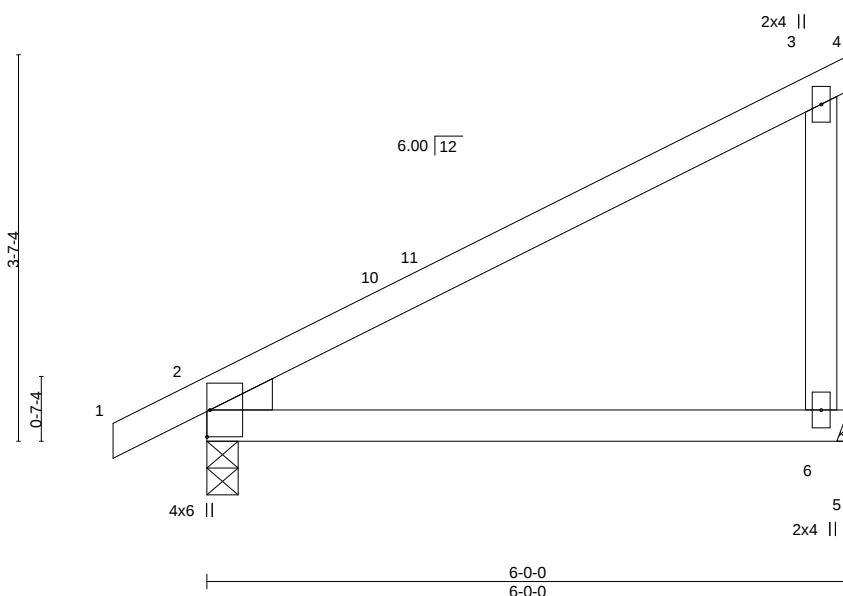
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:43 2021 Page 1

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Scale = 1:21.5



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 0.54	Vert(LL)	0.07	6-9	>924	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.14	6-9	>505	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except end verticals.

BOT CHORD

Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=139(LC 11)

Max Uplift 6=-82(LC 12), 2=-59(LC 12)

Max Grav 6=326(LC 1), 2=399(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

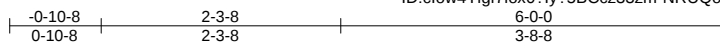
Job 2839636	Truss J2	Truss Type Jack-Closed	Qty 3	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904276
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:49 2021 Page 1

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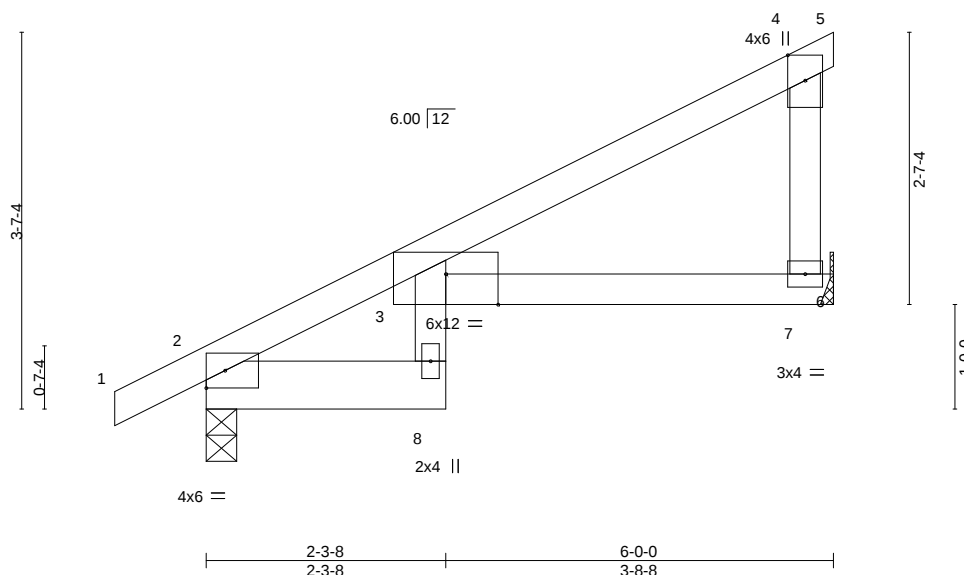


Plate Offsets (X,Y)--		[3:0-6-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL 25.0		Plate Grip DOL 1.15		TC 0.71		Vert(LL) 0.09 8		>743	240	MT20	197/144
TCDL 20.0		Lumber DOL 1.15		BC 0.56		Vert(CT) -0.16 8		>439	180		
BCLL 0.0		Rep Stress Incr YES		WB 0.00		Horz(CT) 0.10 7		n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-8: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
Max Horz 2=118(LC 9)
Max Uplift 7=-82(LC 12), 2=-58(LC 12)
Max Grav 7=327(LC 1), 2=401(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-5, Interior(1) 2-0-5 to 6-0-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

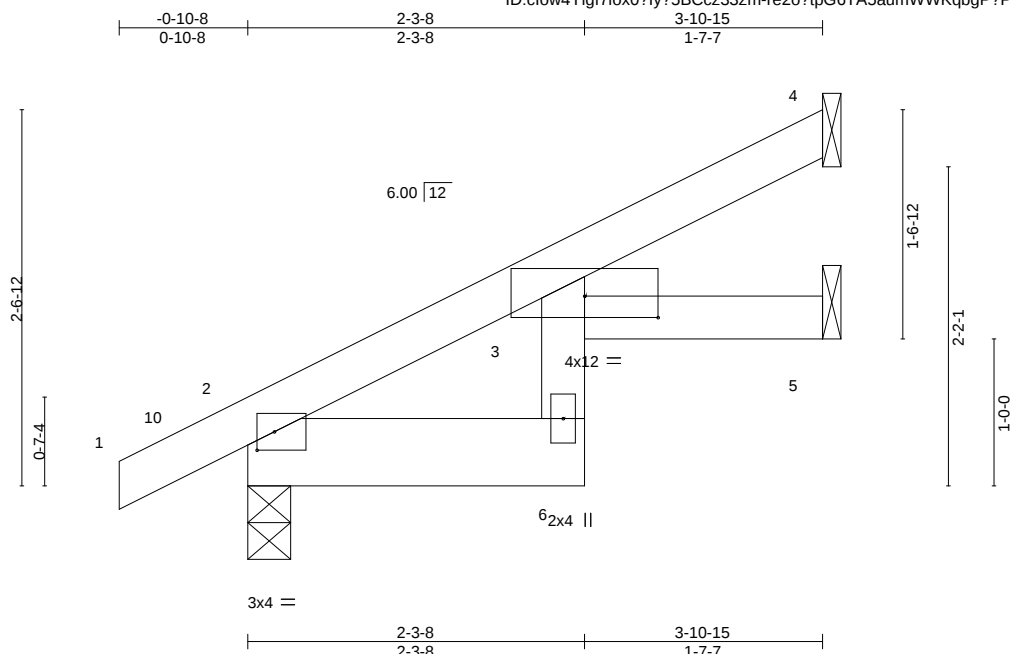
Job 2839636	Truss J3	Truss Type Jack-Open	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904277
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:50 2021 Page 1

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Scale = 1:15.7

Plate Offsets (X,Y)--		[2:0-1-7,0-1-8], [3:0-6-0,0-1-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.35		Vert(LL)	0.03 6 >999 240	MT20	197/144
TCDL 20.0		Lumber DOL	1.15	BC 0.22		Vert(CT)	-0.05 6 >999 180		
BCLL 0.0		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.03 5 n/a n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-MR				Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-6: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=94(LC 12)
Max Uplift 4=-45(LC 12), 2=-37(LC 12), 5=-15(LC 12)
Max Grav 4=123(LC 1), 2=301(LC 1), 5=81(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-5, Interior(1) 2-0-5 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 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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

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 2839636	Truss J3A	Truss Type Jack-Open	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904278
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Builders FirstSource (Valley Center),

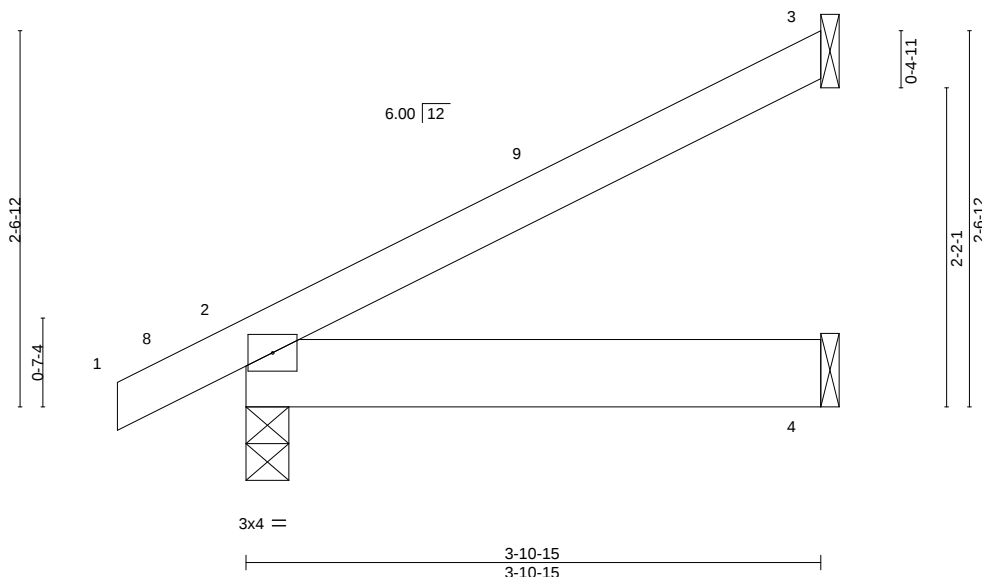
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:51 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-JqcACDqutnlyB1Li41LqDdXcTqbkwD?AI29NQZz_PcU



Scale = 1:15.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.01	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=94(LC 12)
Max Uplift 3=-56(LC 12), 2=-38(LC 12), 4=-5(LC 12)
Max Grav 3=131(LC 1), 2=299(LC 1), 4=88(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss J4	Truss Type Jack-Open	Qty 7	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)
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I46904279

Builders FirstSource (Valley Center),

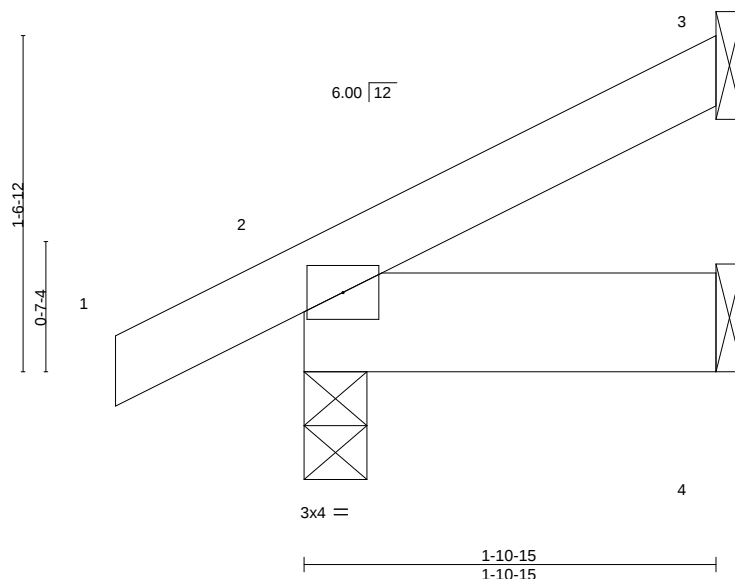
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:51 2021 Page 1

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Scale = 1:10.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2

BRACING-

TOP CHORD

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

BOT CHORD

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

REACTIONS.

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

Max Horz 2=54(LC 12)

Max Uplift 3=-26(LC 12), 2=-30(LC 12), 4=-3(LC 12)

Max Grav 3=58(LC 1), 2=201(LC 1), 4=40(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**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 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss J5	Truss Type Jack-Open	Qty 4	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)
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I46904280

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

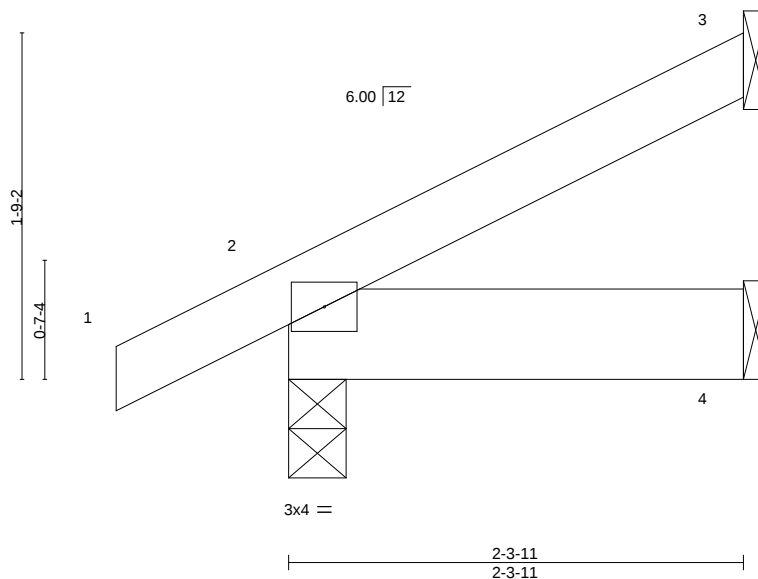
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:52 2021 Page 1

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-0-10-8
0-10-8

2-3-11
2-3-11

Scale = 1:11.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 3=-31(LC 12), 2=-31(LC 12), 4=-4(LC 12)
Max Grav 3=71(LC 1), 2=218(LC 1), 4=49(LC 3)

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

NOTES-

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



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss J6	Truss Type Jack-Open	Qty 4	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904281
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Builders FirstSource (Valley Center),

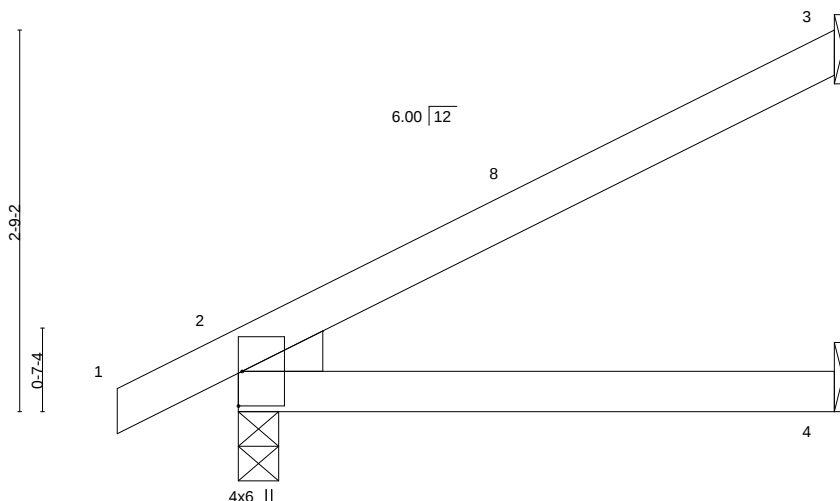
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:52 2021 Page 1

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Scale = 1:16.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.04	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD

Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=102(LC 12)

Max Uplift 3=-68(LC 12), 2=-37(LC 12), 4=-2(LC 12)

Max Grav 3=161(LC 1), 2=320(LC 1), 4=83(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

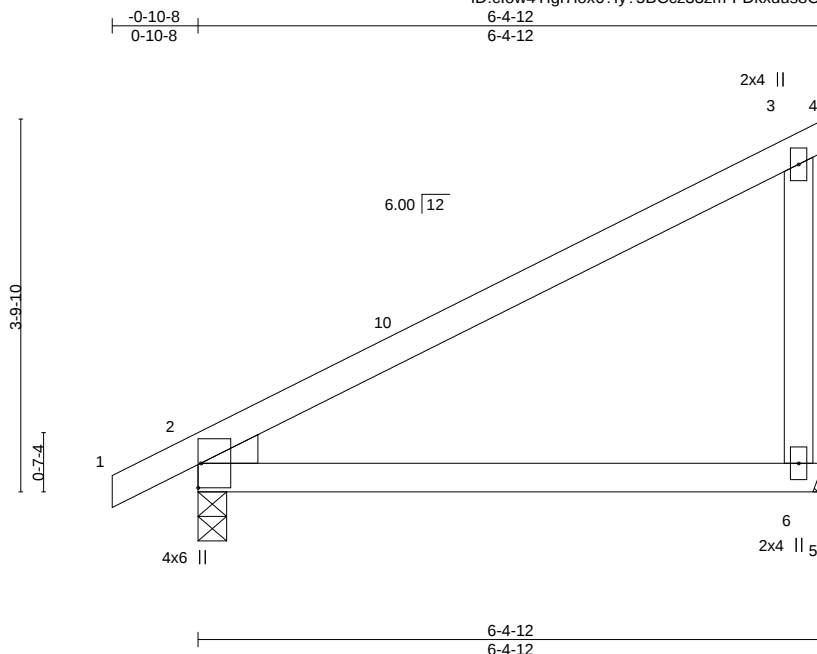
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904282
2839636	J7	Jack-Closed	6	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:53 2021 Page 1

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Scale = 1:23.5

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 0.63	Vert(LL)	0.09	6-9	>806	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.18	6-9	>417	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except end verticals.

BOT CHORD

Rigid ceiling directly applied.

REACTIONS.

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

Max Horz 2=147(LC 11)

Max Uplift 6=-87(LC 12), 2=-59(LC 12)

Max Grav 6=348(LC 1), 2=421(LC 1)

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

TOP CHORD 3-6=-253/225

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 6-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

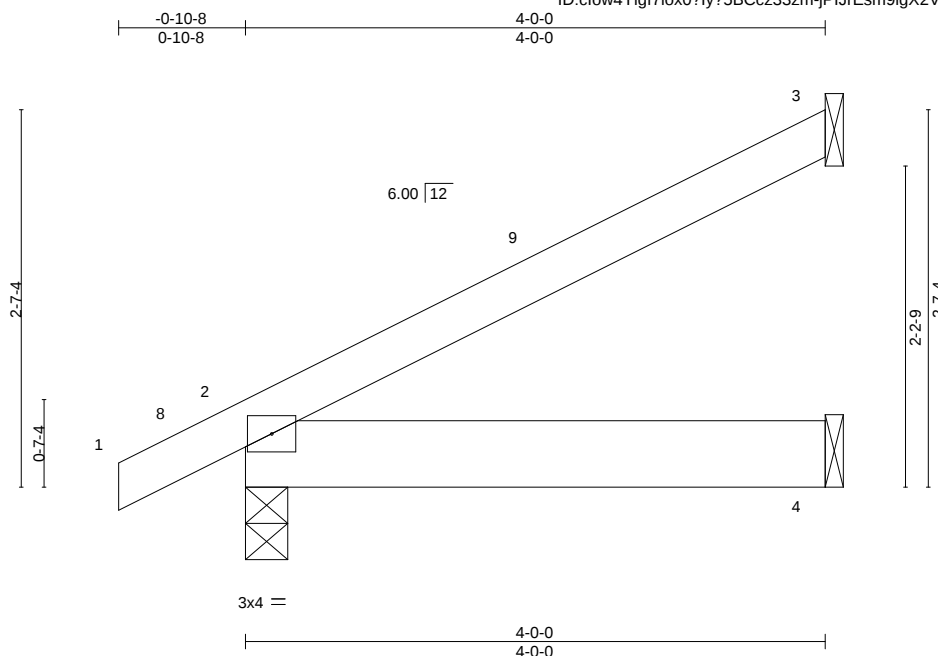
Job 2839636	Truss J9	Truss Type Jack-Open	Qty 7	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904283
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:54 2021 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.01	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=96(LC 12)
Max Uplift 3=-58(LC 12), 2=-38(LC 12), 4=-5(LC 12)
Max Grav 3=135(LC 1), 2=304(LC 1), 4=90(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

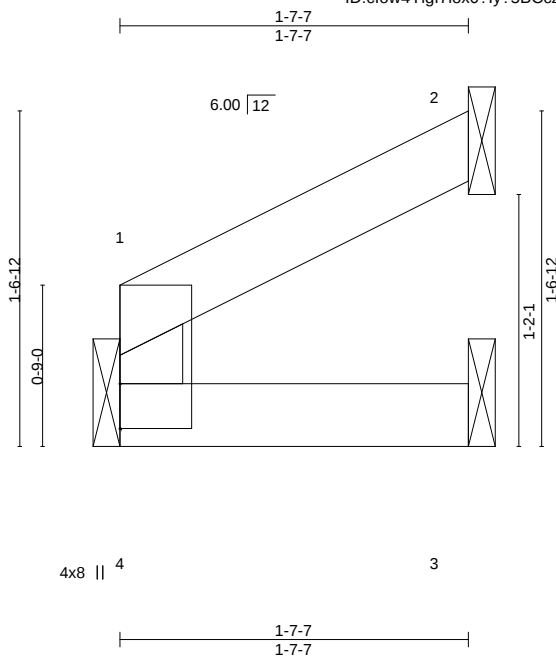
Job 2839636	Truss J10	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904284 Job Reference (optional)
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:44 2021 Page 1

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Scale = 1:10.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	4	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 4 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=29(LC 9)
Max Uplift 2=30(LC 12), 3=2(LC 12)
Max Grav 4=80(LC 1), 2=61(LC 1), 3=29(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



July 8, 2021

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

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

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 2839636	Truss J13	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904285
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

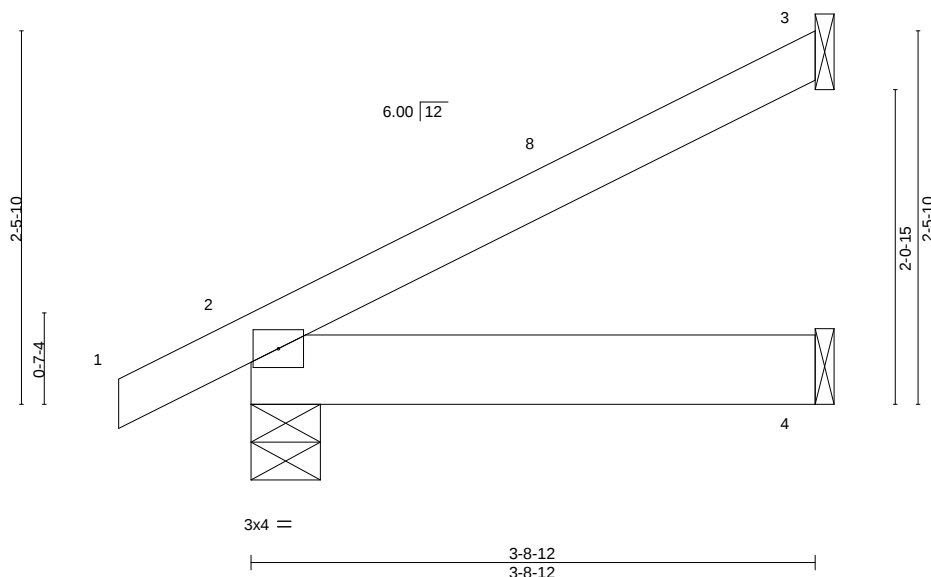
8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:45 2021 Page 1

ID:clow4YlGf7iox0?ly?5BCcz33zm-UgFvy9I7HxYoT6uYkMEQzMibIQYXWvWHM6i3Dmz_Pca

-0-10-8
0-10-8

3-8-12
3-8-12

Scale = 1:15.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.01	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 3=-53(LC 12), 2=-37(LC 12), 4=-5(LC 12)
Max Grav 3=124(LC 1), 2=290(LC 1), 4=84(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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

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

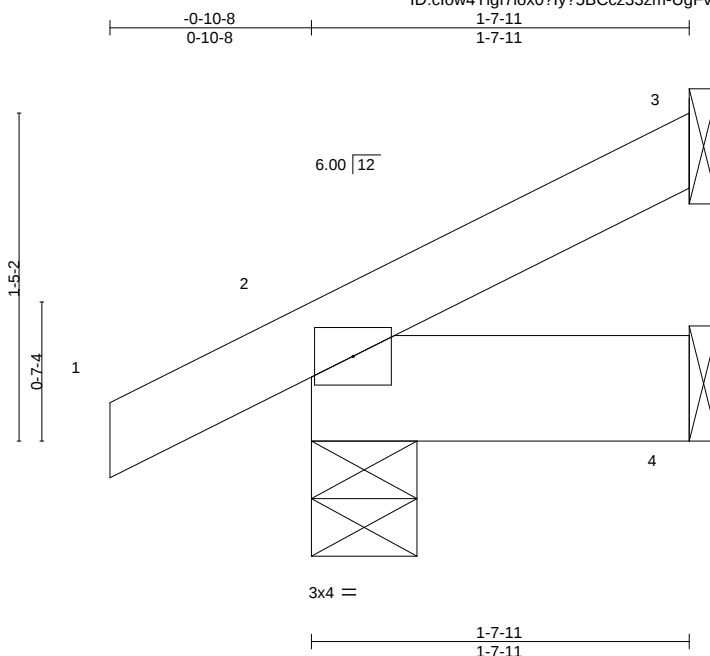
Job 2839636	Truss J14	Truss Type Jack-Closed	Qty 4	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904286
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:45 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-UgFvy9l7HxYoT6uYkmEQzMlb0QZFWvWHM6i3Dmz_Pca



Scale = 1:10.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-5-8, 4=Mechanical
Max Horz 2=45(LC 12)
Max Uplift 2=-28(LC 12), 4=-24(LC 9)
Max Grav 2=189(LC 1), 4=70(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 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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

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 2839636	Truss J16	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)
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I46904287

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:46 2021 Page 1

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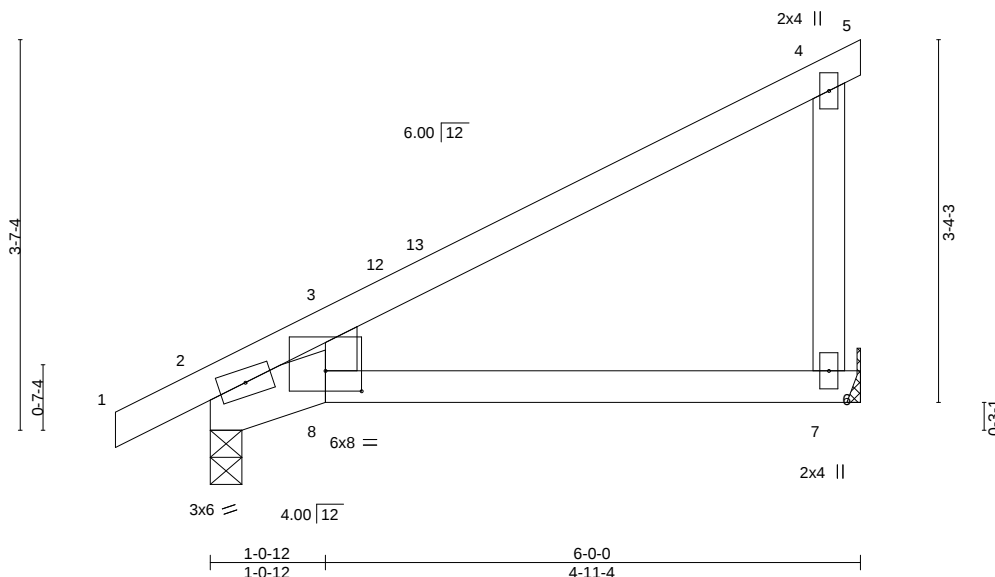


Plate Offsets (X,Y)--		[8:0-4-0,0-2-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.10	8	>707	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.15	8	>457	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.04	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 20 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-8: 2x6 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
 Max Horz 2=137(LC 12)
 Max Uplift 2=-41(LC 12), 7=-99(LC 12)
 Max Grav 2=398(LC 1), 7=326(LC 1)

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

TOP CHORD 2-3=-351/68
 WEBS 3-8=-293/448, 4-7=-273/230

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 6-0-0 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
- 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 connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



July 8, 2021

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

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

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

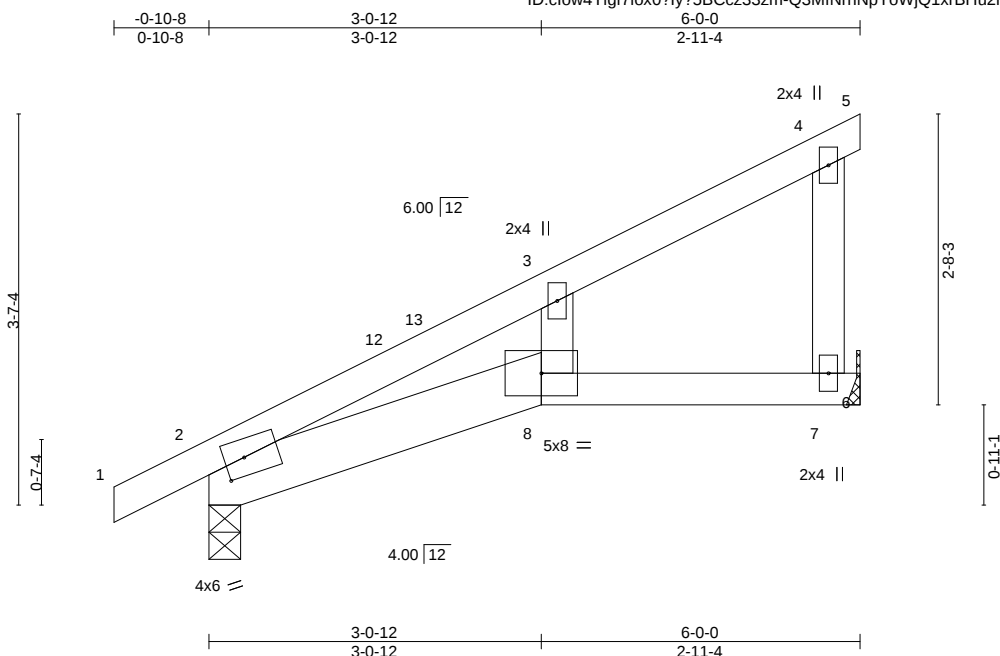
Job 2839636	Truss J17	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904288
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:47 2021 Page 1

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Scale = 1:21.2

Plate Offsets (X,Y)--		[2:0-2-3,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.15 8	>462	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.25 8	>272	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.08 7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-8: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
Max Horz 2=137(LC 12)
Max Uplift 2=-41(LC 12), 7=-99(LC 12)
Max Grav 2=398(LC 1), 7=326(LC 1)

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

WEBS 4-7=-293/221

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 6-0-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



July 8, 2021

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

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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

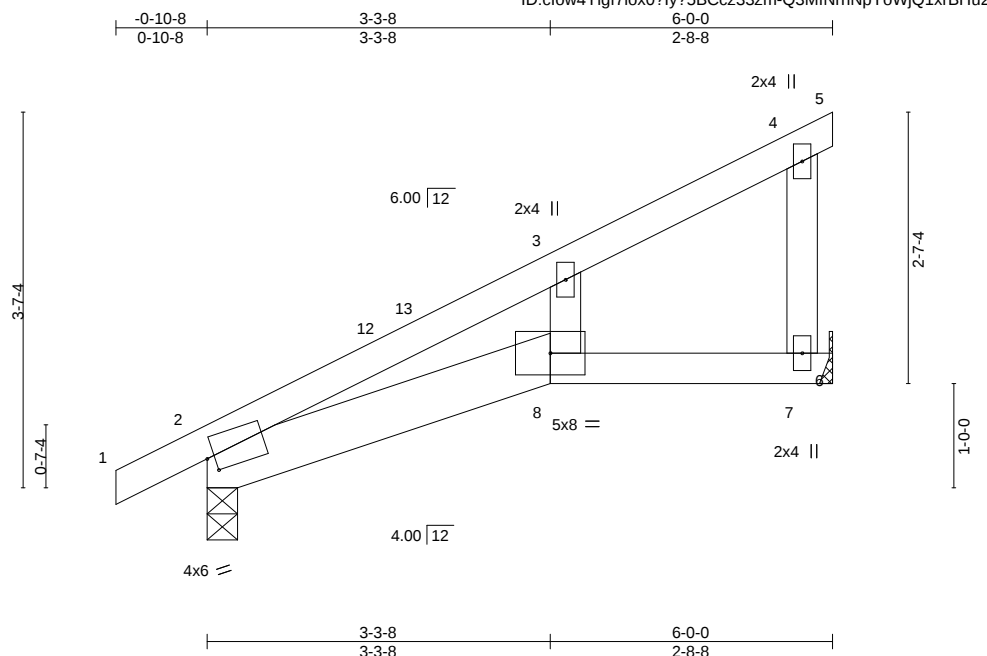
Job 2839636	Truss J18	Truss Type Jack-Open	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO 146904289
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:47 2021 Page 1

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Scale = 1:22.1

Plate Offsets (X,Y)--		[2:0-0-14,0-1-10]									
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	0.78	Vert(LL)	0.14	8	>490	240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15		BC	0.29	Vert(CT)	-0.24	8	>287	180	
BCLL	0.0	Rep Stress Incr YES		WB	0.04	Horz(CT)	0.07	7	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 22 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-8: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
Max Horz 2=137(LC 12)
Max Uplift 2=-41(LC 12), 7=-99(LC 12)
Max Grav 2=398(LC 1), 7=326(LC 1)

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

WEBS 4-7=-296/220

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 6-0-0 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



July 8, 2021

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

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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

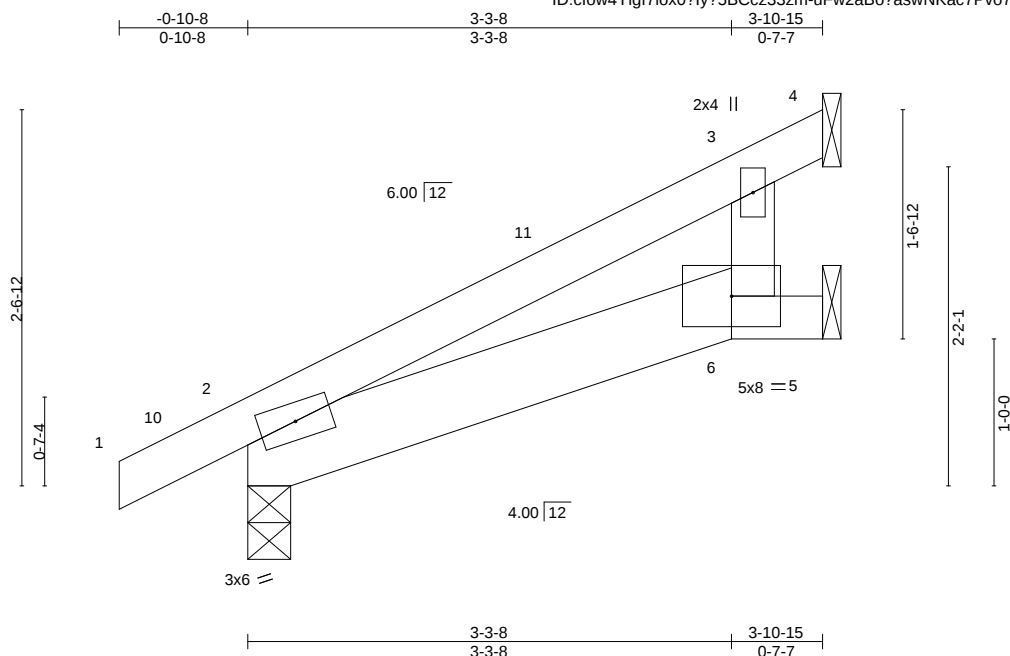
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904290
2839636	J19	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:48 2021 Page 1

ID:clow4Ylgf7iox0?iy?5BCcz33zm-uFw2aBo?aswNKac7Pvo7b_w54dZjjGuj24wj5z_PcX



Scale = 1:15.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.01	6-9	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-6: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=94(LC 12)
Max Uplift 4=-65(LC 12), 2=-36(LC 12)
Max Grav 4=197(LC 1), 2=299(LC 1), 5=11(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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

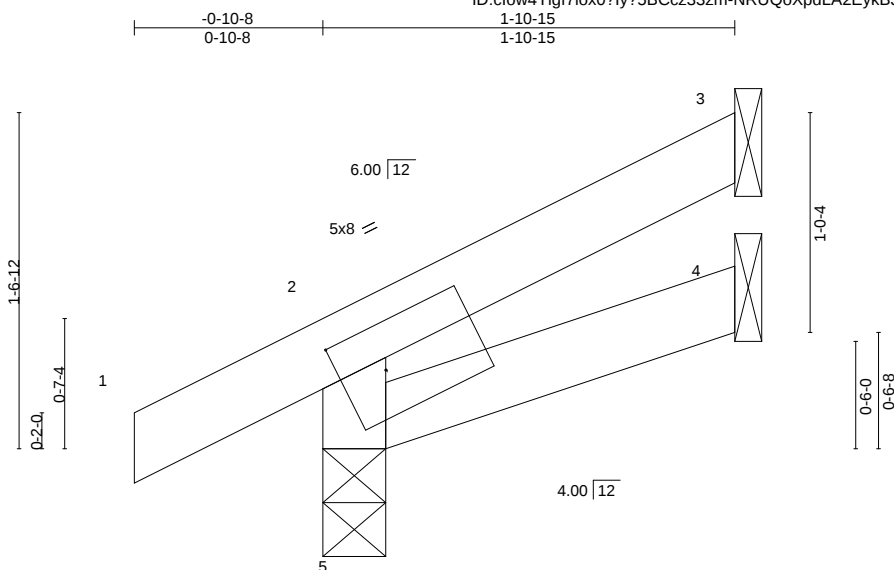
Job 2839636	Truss J20	Truss Type Jack-Open	Qty 2	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904291
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:49 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-NRUQoXpdLA2EykbJzcJM8CSle1xiSjVtHkgGMYz_PcW



Scale = 1:10.7

Plate Offsets (X,Y)-- [2:0-2-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=48(LC 12)
Max Uplift 3=-30(LC 12), 5=-30(LC 12)
Max Grav 3=57(LC 1), 4=31(LC 3), 5=215(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 100 lb uplift at joint(s) 3, 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.



July 8, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss LG1	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO 146904292
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:55 2021 Page 1

ID:clow4Ylgr7iox0?ly?5BCcz33zm-Bbrh2atOw?oNgfeTJtQmNTiKTS_5sOtlfg7bZBz_PcQ

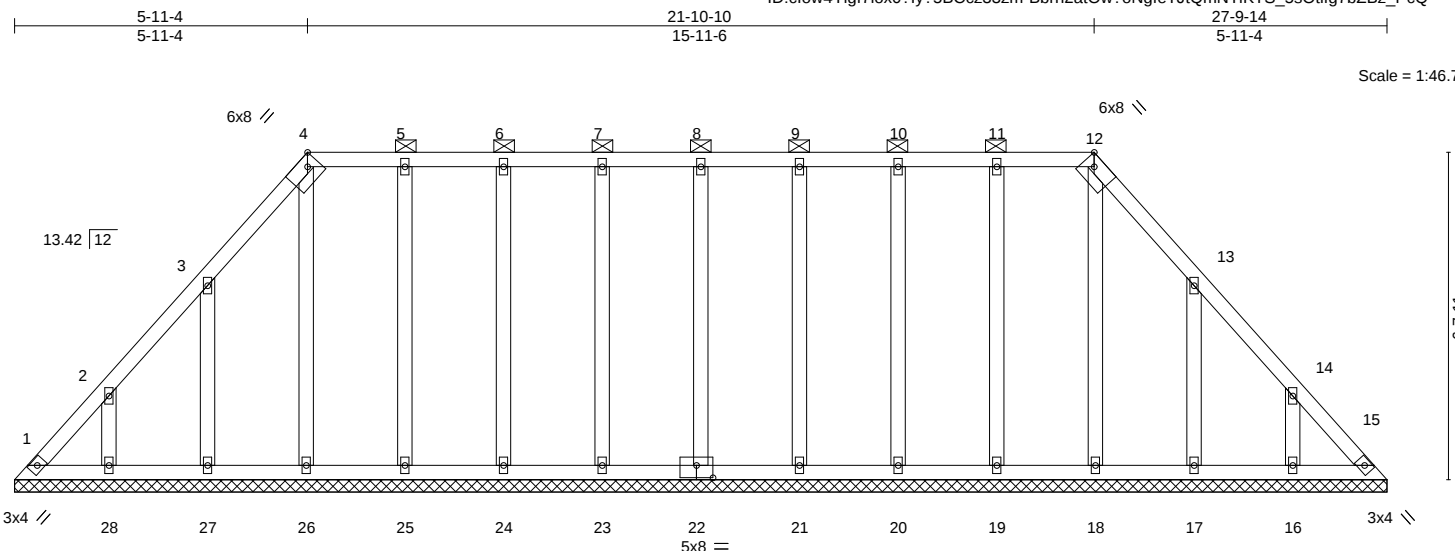


Plate Offsets (X,Y)--		[4:0-2-10,Edge], [12:0-2-10,Edge], [22:0-4-0,0-3-0]	
LOADING (psf)		SPACING- 2-0-0	
TCLL	25.0	Plate Grip DOL	1.15
TCDL	20.0	Lumber DOL	1.15
BCLL	0.0	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2018/TPI2014
CSI.		DEFL.	
TC 0.07		in (loc) l/defl L/d	
BC 0.03		Vert(LL) n/a - n/a 999	
WB 0.14		Vert(CT) n/a - n/a 999	
Matrix-S		Horz(CT) 0.01 15 n/a n/a	
		PLATES GRIP	
		MT20 197/144	
		Weight: 144 lb FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 27-9-14.
(lb) - Max Horz 1=170(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except 27=155(LC 12), 28=140(LC 12), 17=155(LC 13), 16=141(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 28, 21, 20, 19, 18, 16 except 27=265(LC 19), 17=264(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-11-4, Exterior(2R) 5-11-4 to 9-10-15, Interior(1) 9-10-15 to 21-10-10, Exterior(2R) 21-10-10 to 25-10-15, Interior(1) 25-10-15 to 27-5-15 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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except (jt=lb) 27=155, 28=140, 17=155, 16=141.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 8, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

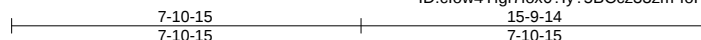
Job 2839636	Truss LG2	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO 146904293
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:56 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-foP3Gwu0hJwElpDftax?wgFV6rK7brvuKs86ez_PcP



4x6 =

Scale = 1:52.2

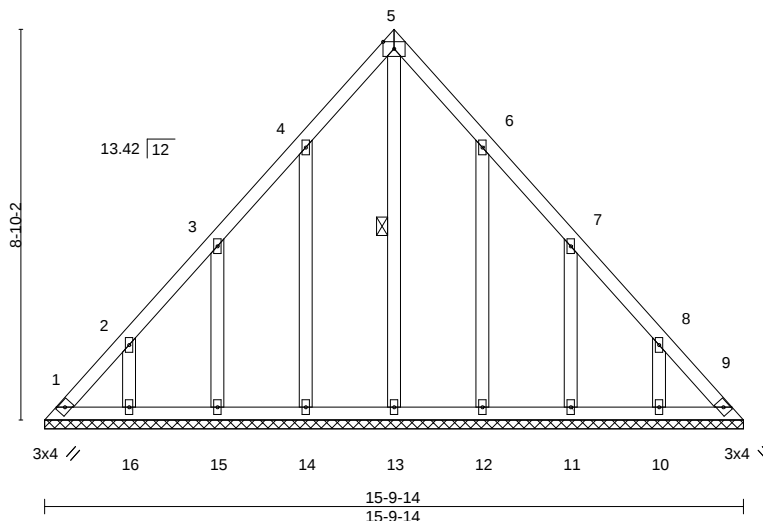


Plate Offsets (X,Y)--		[5:Edge,0-1-14]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL 25.0		Plate Grip DOL 1.15		TC 0.08		Vert(LL) n/a -	n/a	999	MT20	197/144
TCDL 20.0		Lumber DOL 1.15		BC 0.04		Vert(CT) n/a -	n/a	999		
BCLL 0.0		Rep Stress Incr YES		WB 0.15		Horz(CT) 0.01 9	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S					Weight: 80 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 15-9-14.

(lb) - Max Horz 1=-229(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-145(LC 12), 15=-145(LC 12), 16=-142(LC 12), 12=-143(LC 13), 11=-146(LC 13), 10=-141(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 15, 16, 11, 10 except 14=261(LC 19), 12=259(LC 20)

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

TOP CHORD 1-2=-311/203, 8-9=-279/197

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 7-10-15, Exterior(2R) 7-10-15 to 10-10-15, Interior(1) 10-10-15 to 15-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=145, 15=145, 16=142, 12=143, 11=146, 10=141.
- 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.



July 8, 2021

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



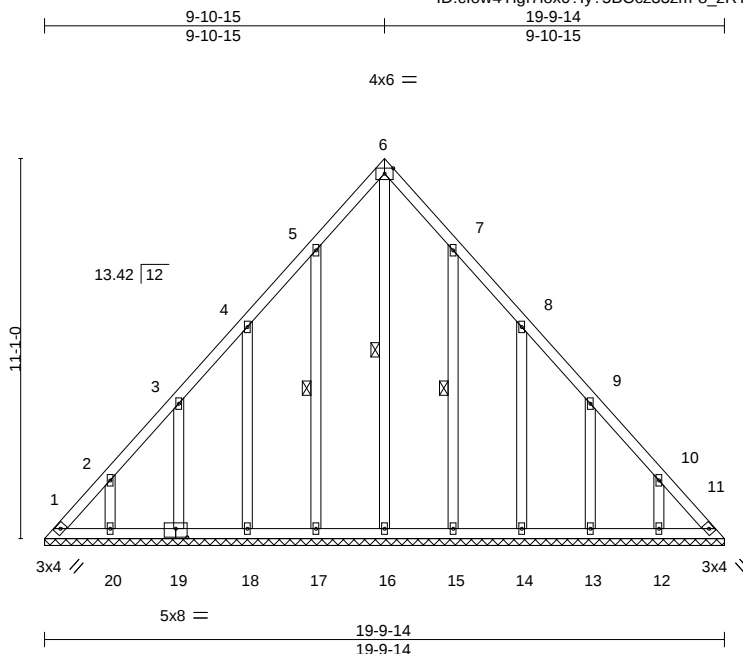
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO
2839636	LG3	GABLE	1	1	I46904294
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:57 2021 Page 1
ID:clow4Ylgf7iox0?ly?5BCcz33zm-8_zRTGvfSd25vyosRISESungiFICKI727_che4z_PcO



Scale = 1:67.2

Plate Offsets (X,Y)--		[6:Edge,0-1-14], [19:0-4-0,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.15	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 11 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 112 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16, 5-17, 7-15

REACTIONS.

All bearings 19-9-14.
(lb) - Max Horz 1=-289(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-131(LC 10), 17=-140(LC 12), 18=-147(LC 12), 19=-145(LC 12), 20=-144(LC 12), 15=-138(LC 13), 14=-148(LC 13), 13=-142(LC 13), 12=-142(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 20, 14, 13, 12 except 1=297(LC 12), 11=262(LC 13), 16=256(LC 13), 17=259(LC 19), 19=254(LC 19), 15=257(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-415/264, 2-3=-287/214, 10-11=-370/256
BOT CHORD 1-20=-180/274, 19-20=-180/274, 18-19=-175/272, 17-18=-175/272, 16-17=-175/272, 15-16=-175/272, 14-15=-175/272, 13-14=-175/272, 12-13=-175/272, 11-12=-175/272

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 9-10-15, Exterior(2R) 9-10-15 to 12-10-15, Interior(1) 12-10-15 to 19-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=131, 17=140, 18=147, 19=145, 20=144, 15=138, 14=148, 13=142, 12=142.
- 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.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO
2839636	LG4	GABLE	1	1	I46904295
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:58 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-cAXqgcwHDwAyX6N2_?zT?5KqNF?s3mgCMeLFAWz_PcN

3-11-4 5-11-11
3-11-4 2-0-7

Scale = 1:28.2

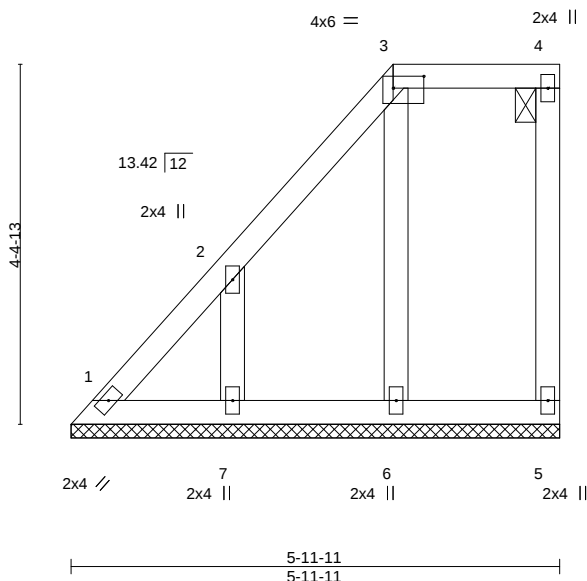


Plate Offsets (X,Y)--	[3:0-4-8,0-1-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-11-11.
(lb) - Max Horz 1=164(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=164(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=275(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-298/318
WEBS 2-7=-285/184

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) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-11-4, Exterior(2E) 3-11-4 to 5-9-15 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=164.
- 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.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

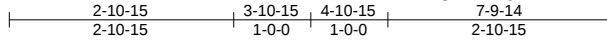
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO
2839636	LG5	Lay-In Gable	1	1	I46904296
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:53:59 2021 Page 1

ID:clow4Ylgt7iox0?ly?5BCcz33zm-4N5Cuywv_E3p9GyEYjUiYJt?R3LpoEELal5oiyz_PcM



3x4 =

Scale = 1:29.9

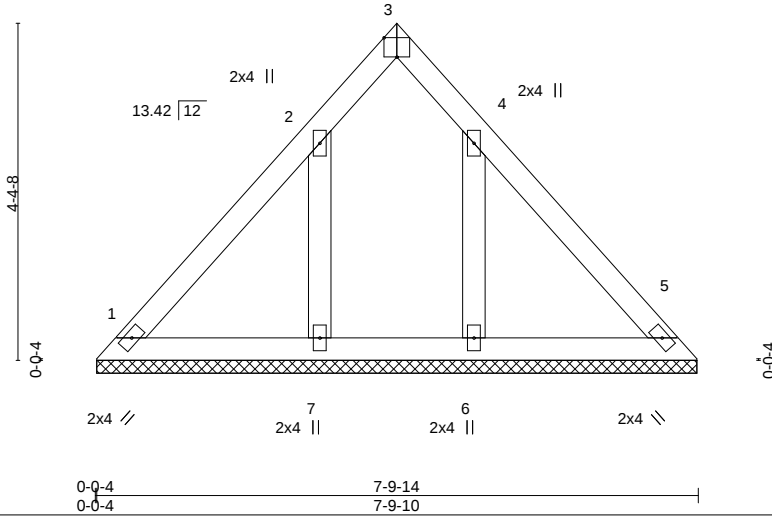


Plate Offsets (X,Y)--		[3:Edge,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.13	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 5 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 27 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

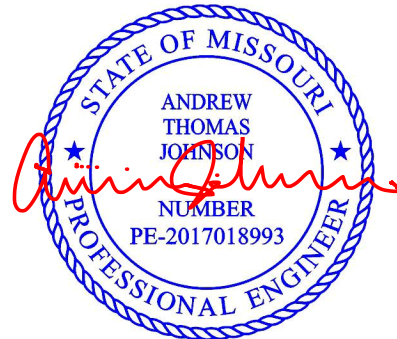
All bearings 7-9-7.
(lb) - Max Horz 1=-108(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 6=-180(LC 13), 7=-182(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=320(LC 20), 7=322(LC 19)

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

WEBS 4-6=-313/201, 2-7=-313/203

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-15, Exterior(2R) 3-10-15 to 6-10-15, Interior(1) 6-10-15 to 7-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 6 and 182 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.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

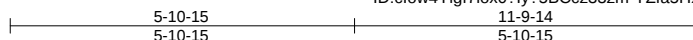
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904297
2839636	LG6	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:00 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-YZfa5HxXIYRgmQXR6Q?x4WPBETHDXgoUpyqMFPz_PcL



4x6 =

Scale = 1:39.6

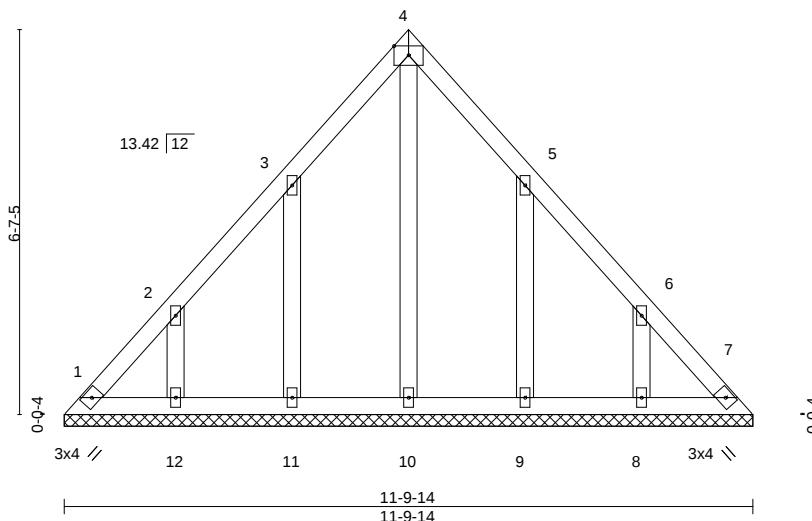


Plate Offsets (X,Y)--		[4:Edge,0-1-14]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S						Weight: 52 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-9-14.

(lb) - Max Horz 1=-168(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-150(LC 12), 12=-142(LC 12), 9=-149(LC 13), 8=-142(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 12, 8 except 11=262(LC 19), 9=261(LC 20)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-10-15, Exterior(2R) 5-10-15 to 8-10-15, Interior(1) 8-10-15 to 11-5-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=150, 12=142, 9=149, 8=142.
- 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.



July 8, 2021

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

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



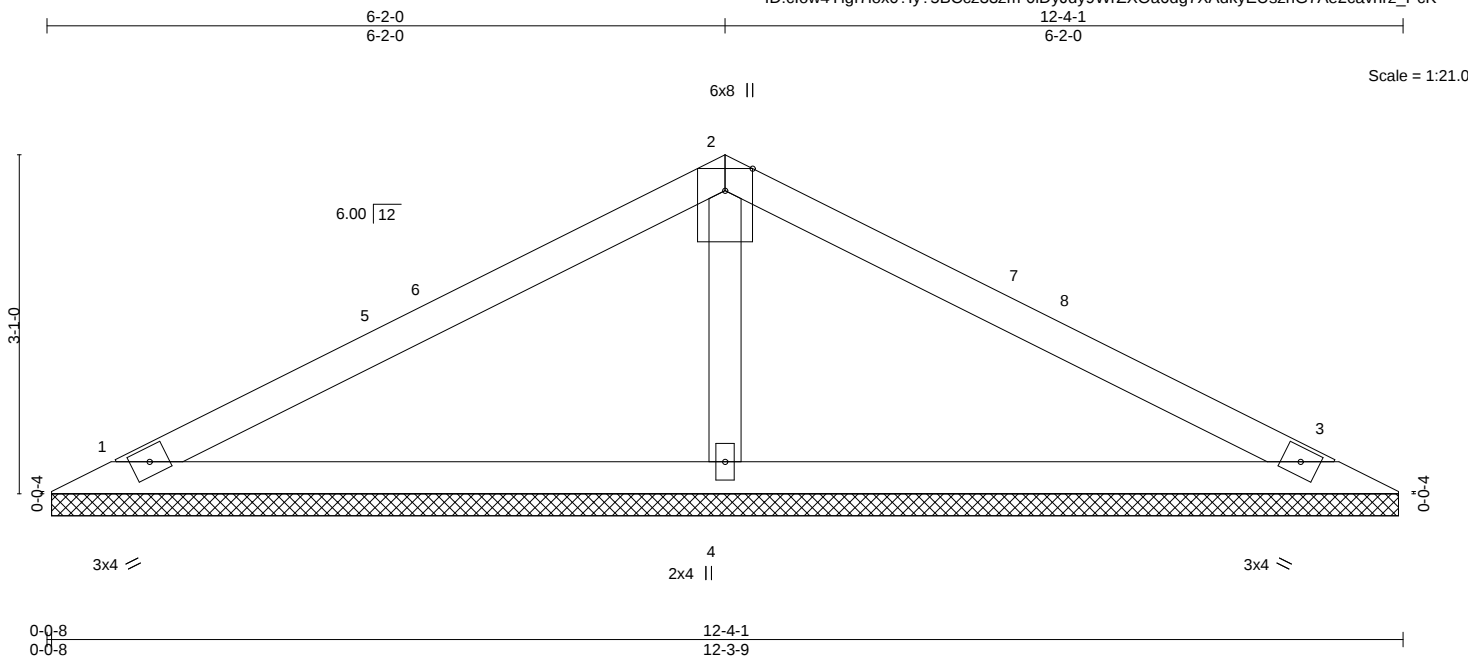
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904298
2839636	V1	Valley	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:01 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-0lDyJdy9WrZXOa6dg7XAdkyEUzhG7Ae2cavnz_PcK



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	n/a	MT20		197/144	
BCDL	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 31 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=12-3-1, 3=12-3-1, 4=12-3-1
Max Horz 1=-49(LC 17)
Max Uplift 1=-54(LC 12), 3=-63(LC 13), 4=-57(LC 12)
Max Grav 1=283(LC 25), 3=283(LC 26), 4=659(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-481/200

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 11-8-8 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

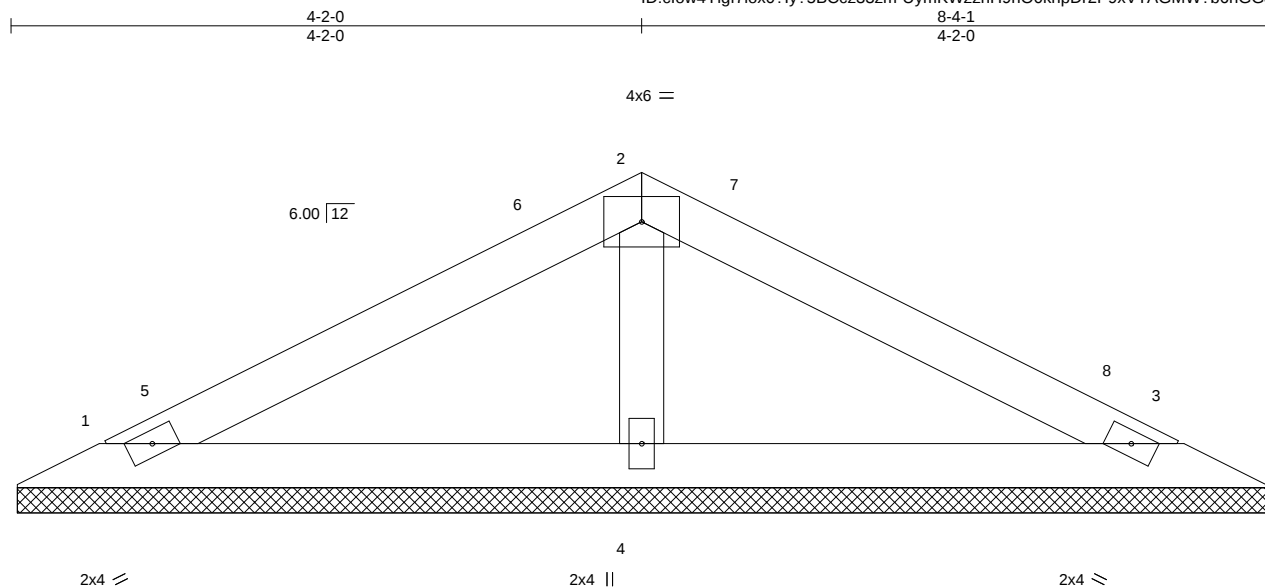
Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #26/MO	I46904299
2839636	V2	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:02 2021 Page 1

ID:clow4Ylgf7iox0?iy?5BCcz33zm-UymKWzznH9hO0khpDr2P9xVTAGMW?b6nGGJSJHz_PcJ



Scale = 1:15.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-3-1, 3=8-3-1, 4=8-3-1
Max Horz 1=31(LC 16)
Max Uplift 1=-42(LC 12), 3=-48(LC 13), 4=-22(LC 12)
Max Grav 1=201(LC 1), 3=201(LC 1), 4=377(LC 1)

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

WEBS 2-4=-288/158

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 7-8-8 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 8, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss V3	Truss Type Valley	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO I46904300
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Builders FirstSource (Valley Center),

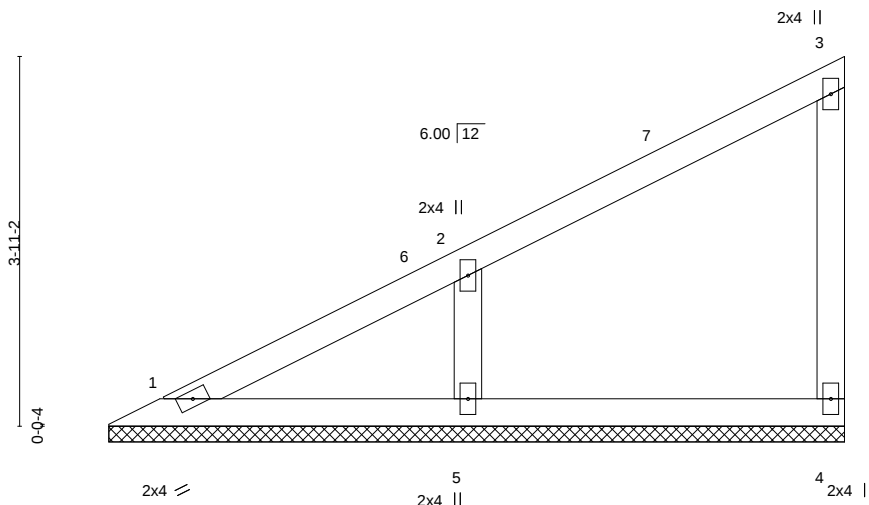
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:02 2021 Page 1

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7-10-4
7-10-4

Scale = 1:24.5



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 0.27	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
									Weight: 23 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-9-12, 4=7-9-12, 5=7-9-12
Max Horz 1=148(LC 9)
Max Uplift 4=-31(LC 9), 5=-128(LC 12)
Max Grav 1=132(LC 20), 4=166(LC 1), 5=489(LC 1)

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

TOP CHORD 1-2=-251/176
WEBS 2-5=-400/265

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) 0-7-9 to 3-10-4, Interior(1) 3-10-4 to 7-8-8 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) 4 except (jt=lb) 5=128.
- 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.



July 8, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

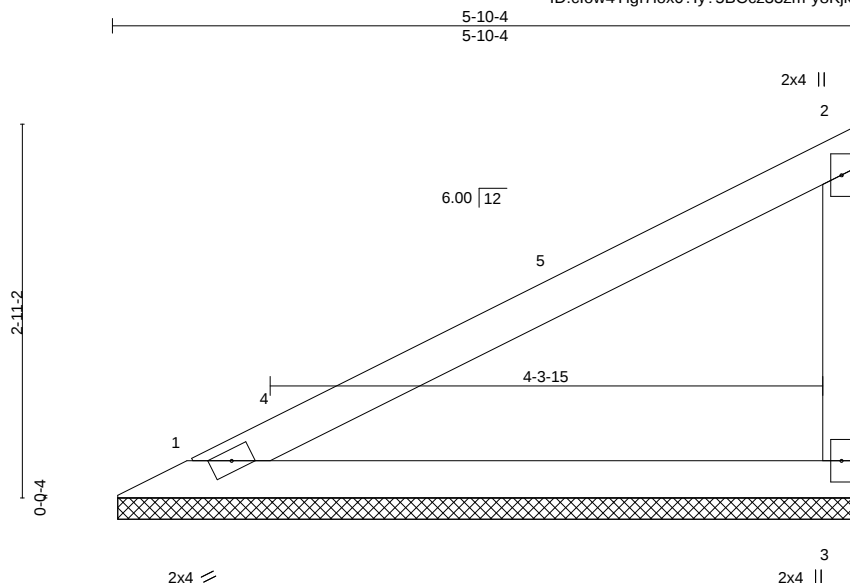
Job 2839636	Truss V4	Truss Type Valley	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904301
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:03 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-y8KjkJzP2TpFdtG0nYZei91YSgeCk2zxVw30rkz_Pcl



Scale = 1:18.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.

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

REACTIONS.

(size) 1=5-9-12, 3=5-9-12

Max Horz 1=106(LC 9)

Max Uplift 1=-38(LC 12), 3=-65(LC 12)

Max Grav 1=279(LC 1), 3=279(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) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-8-8 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, 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.



July 8, 2021

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

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



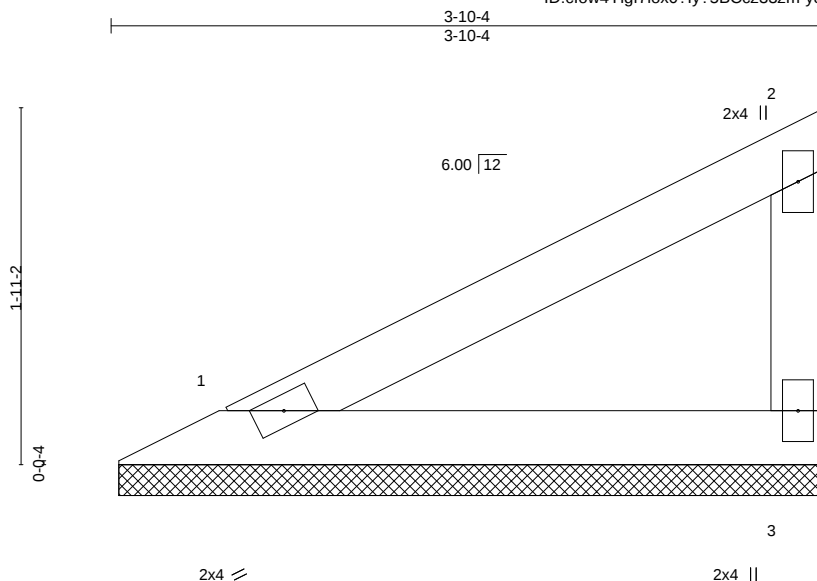
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss V5	Truss Type Valley	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)
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I46904302

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:03 2021 Page 1
ID:clow4Ylgf7iox0?ly?5BCcz33zm-y8KjkJzP2TpFdtG0nYZei91f7gh?k2zxVw30rkz_Pcl

Scale = 1:12.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals.

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

REACTIONS.

(size) 1=3-9-12, 3=3-9-12

Max Horz 1=64(LC 9)

Max Uplift 1=-23(LC 12), 3=-40(LC 12)

Max Grav 1=169(LC 1), 3=169(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.



July 8, 2021

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

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

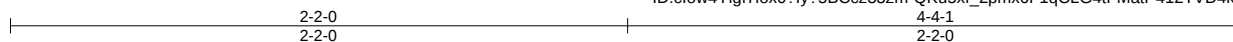
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2839636	Truss V7	Truss Type Valley	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #26/MO Job Reference (optional)	I46904303
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Wed Jul 7 15:54:04 2021 Page 1

ID:clow4Ylgf7iox0?ly?5BCcz33zm-QKu5xf_2pmx6F1qCLG4tFMatP412TVD4kZozOAz_PcH



Scale = 1:8.1

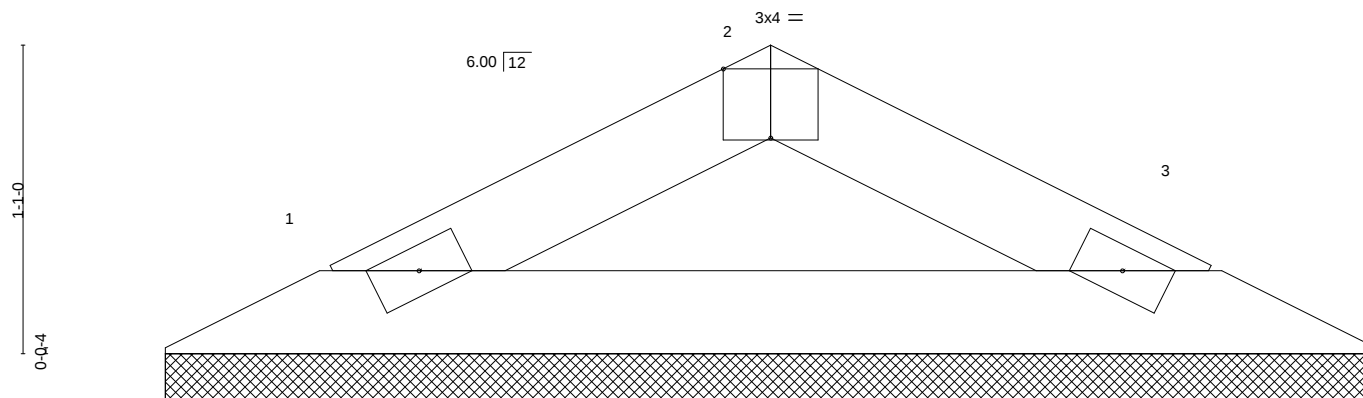


Plate Offsets (X,Y)--	[2:0-2-0,Edge]	4-3-9	4-3-9	4-4-1	0-0-8
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-3-1, 3=4-3-1
Max Horz 1=-14(LC 17)
Max Uplift 1=-23(LC 12), 3=-23(LC 13)
Max Grav 1=169(LC 1), 3=169(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

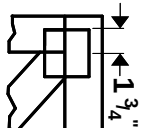
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



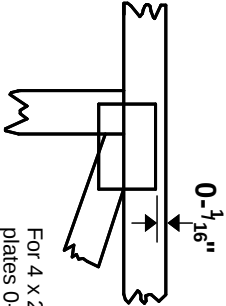
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

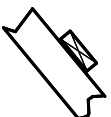
*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

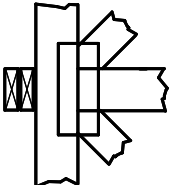
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

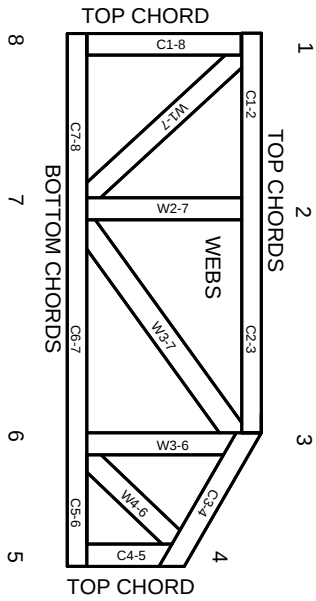


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

Numbering System

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



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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