



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

Re: 2523899
4 WOODSIDE RIDGE

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/12/2020

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: I43333270 thru I43333293

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

Missouri COA: Engineering 001193



Scott M. Sevier

October 23, 2020

Sevier, Scott ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I43333270
2523899	A01	COMMON SUPPORTED GAB	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:34:47 2020 Page 1

ID:qMeyVrAyR40V1rvltLjLFlzXPDf-lu4u?0L6t9zZE6D2K6I00gxWRBpB2jbtA0Z_yQaq6

-0-10-8 23-0-0 46-0-0 46-10-8
0-10-8 23-0-0 23-0-0 0-10-8

Scale = 1:78.0

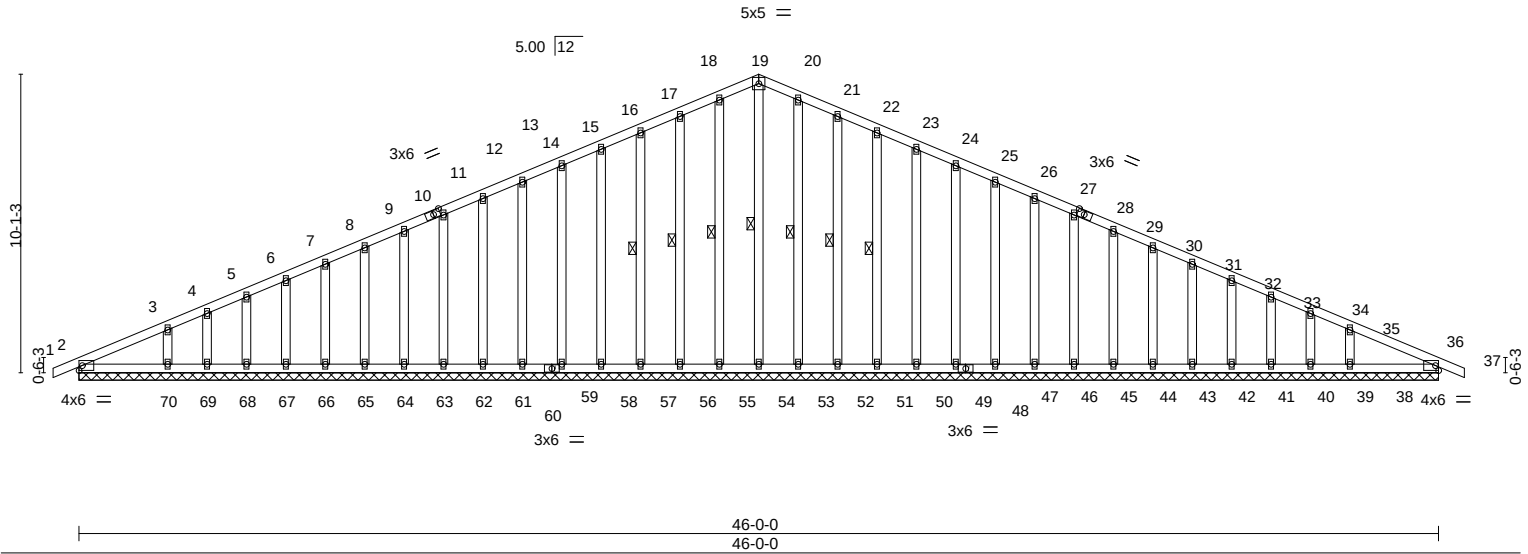


Plate Offsets (X,Y)--		[10:0-2-12,0-1-8], [28:0-2-12,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	37	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	37	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 19-54, 18-55, 17-56, 16-57, 20-53, 21-52, 22-51

REACTIONS. All bearings 46-0-0.
(lb) - Max Horz 2=93(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38
Max Grav All reactions 250 lb or less at joint(s) 2, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 53, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 36 except 70=256(LC 19), 38=256(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 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) 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 52, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38.
- This truss 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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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	4 WOODSIDE RIDGE	I43333271
2523899	A02	COMMON	7	1		

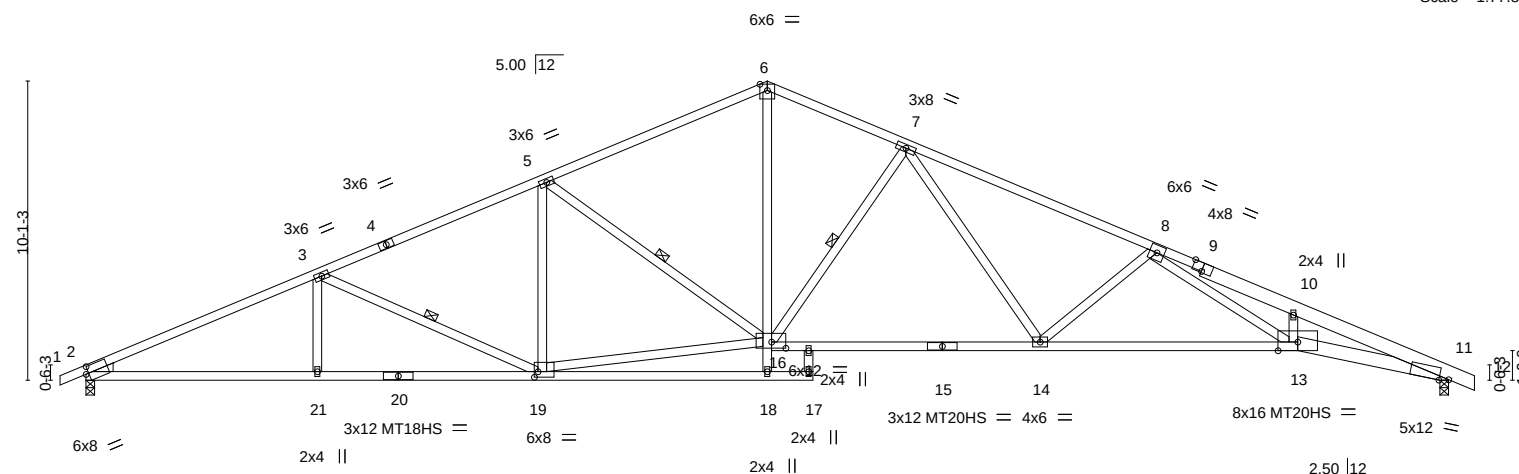
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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ID:qMeyVrAyR40V1rvltLjLFlzXPDf-m5eGDMmkeS5PsGoEupGFZtUUWbwnyp1zqXZ6QyQaq5

0-10-8 7-9-12 15-4-14 23-0-0 24-6-8 27-8-2 36-0-0 40-10-14 46-0-0 46-10-8
0-10-8 7-9-12 7-7-2 7-7-2 1-6-8 3-1-10 8-3-13 4-10-14 5-1-2 0-10-8

Scale = 1:77.8



	7-9-12	15-4-14	23-0-0	24-6-8	32-2-8	40-10-14	46-0-0
	7-9-12	7-7-2	7-7-2	1-6-8	7-8-0	8-8-6	5-1-2

Plate Offsets (X,Y)-- [2:0-1-3,0-2-14], [9:0-4-0,Edge], [11:0-3-14,Edge], [16:0-5-12,0-2-8], [19:0-1-8,0-2-4]

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 0.95	Vert(LL)	-0.53 13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-1.12 14-16	>494	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.41 11	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-6: 2x4 SPF No.2, 9-12: 2x6 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
17-22,15-16: 2x4 SPF No.2, 11-13: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-19, 5-16, 7-16

REACTIONS.

(size) 2=0-3-8, 11=0-3-8
Max Horz 2=-96(LC 9)
Max Uplift 2=-55(LC 8), 11=-55(LC 9)
Max Grav 2=2145(LC 1), 11=2146(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4403/106, 3-5=-3683/94, 5-6=-3079/82, 6-7=-3080/96, 7-8=-4498/92,
8-10=-7591/164, 10-11=-7686/109
BOT CHORD 2-21=-124/3956, 19-21=-124/3956, 14-16=0/3392, 13-14=-21/4926, 11-13=-54/7120
WEBS 3-21=0/259, 3-19=-749/101, 5-19=0/268, 6-16=-19/1922, 16-19=-39/3261,
5-16=-808/121, 7-16=-1116/130, 7-14=-11/1181, 8-14=-1164/149, 8-13=-44/2503

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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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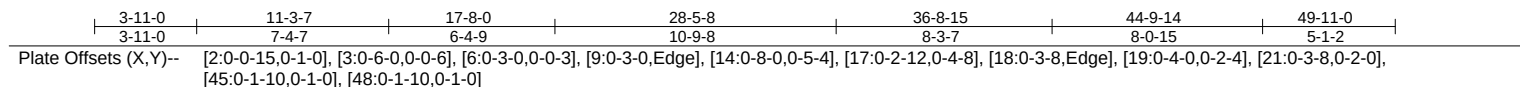
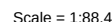
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ID:gMevVrAvR40V1rvltLiLElZXPdf-iTl1e2O?A4L75ayd?EljelZr1Oe3FvJKR80qAlvOaq3



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 0.83	Vert(LL) -0.41 14-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.94 18-19	>587	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.28 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 365 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except* 1-3: 2x8 SP 2400F 2.0E, 9-13: 2x6 SPF No.2
BOT CHORD	2x6 SPF 2100F 1.8E *Except* 7-18,18-20: 2x4 SPF No.2, 16-17: 2x6 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied. Except:
	1 Row at midpt 7-17
WEBS	1 Row at midpt 8-17, 6-19

REACTIONS.

(size) 12=0-3-8, 22=0-3-8
 Max Horz 22=-115(LC 9)
 Max Uplift 12=-72(LC 9), 22=-60(LC 8)
 Max Grav 12=2115(LC 1), 22=2445(LC 1)

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

TOP CHORD	2-4=-2595/79, 4-5=-2728/90, 5-6=-2750/170, 6-7=-3129/170, 7-8=-3184/118, 8-10=-4638/135, 10-11=-7725/231, 11-12=-7867/191
BOT CHORD	19-21=57/2267, 18-19=0/319, 17-17=-3449/99, 15-17=0/3744, 14-15=-93/5294, 12-14=-130/7315
WEBS	2-21=0/2390, 4-21=-590/42, 5-19=-504/128, 8-17=-1212/114, 8-15=0/1071, 10-15=-1329/147, 10-14=-46/2296, 17-19=0/1942, 6-17=-90/1622, 6-19=-113/592, 4-19=0/275, 2-22=-2209/119

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 22.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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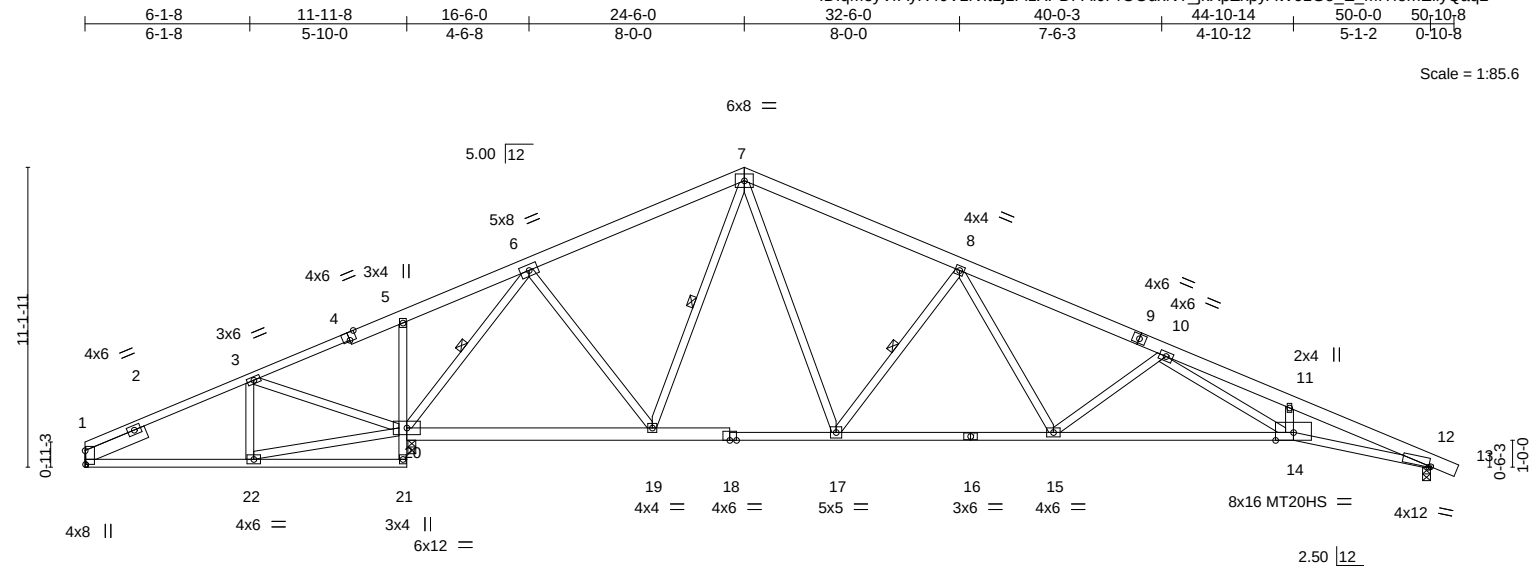
Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I43333273
2523899	B02	ROOF SPECIAL	4	1		

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

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ID:qMeyVrAyR40V1rvItJLFlzXPDf-AfJPPrOdxNT_jkXpZxpyAW61Go_E_MfTfomEilyQaq2

Job Reference (optional)



6-1-8		11-11-8		12-9-0		21-1-0		27-10-15		35-11-14		44-10-14		50-0-0	
6-1-8		5-10-0		0-0-8		9-1-0		6-10-0		8-0-14		8-11-1		5-1-2	
Plate Offsets (X,Y)-- [1:0-6-3,0-0-3], [4:0-3-0,Edge], [12:0-0-12,Edge]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d	
TCLL	25.0	Plate Grip DOL		1.15		TC	0.73	Vert(LL)		-0.33	14-15	>999		240	
TCDL	10.0	Lumber DOL		1.15		BC	0.81	Vert(CT)		-0.72	14-15	>640		180	
BCLL	0.0	Rep Stress Incr		YES		WB	0.79	Horz(CT)		0.21	12	n/a		n/a	
BCDL	10.0	Code IRC2018/TPI2014				Matrix-AS									
Weight: 259 lb														FT = 20%	

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
18-20: 2x6 SP 2400F 2.0E, 12-14,14-16: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 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 6-20, 7-19, 8-17

REACTIONS.

(size) 1=Mechanical, 12=0-3-8, 20=0-3-8
Max Horz 1=-116(LC 9)
Max Uplift 1=-247(LC 20), 12=-76(LC 9), 20=-20(LC 8)
Max Grav 1=241(LC 19), 12=1623(LC 1), 20=2942(LC 1)

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

TOP CHORD 1-3=-281/721, 3-5=0/1501, 5-6=0/1511, 6-7=-1043/116, 7-8=-1697/148, 8-10=-2922/151,
10-11=-5362/261, 11-12=-5521/204
BOT CHORD 1-22=-618/129, 5-20=-332/78, 19-20=-34/354, 17-19=0/1098, 15-17=0/2136,
14-15=-82/3445, 12-14=-143/5076
WEBS 3-22=0/321, 6-20=-2705/17, 6-19=0/1027, 7-19=-702/52, 7-17=-73/1128,
8-17=-1160/151, 8-15=-9/978, 10-15=-1068/140, 10-14=-78/1828, 20-22=-492/133,
3-20=-1010/50

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 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) 12, 20 except (jt=lb) 1=247.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I4333275
2523899	B04	COMMON	1	1		

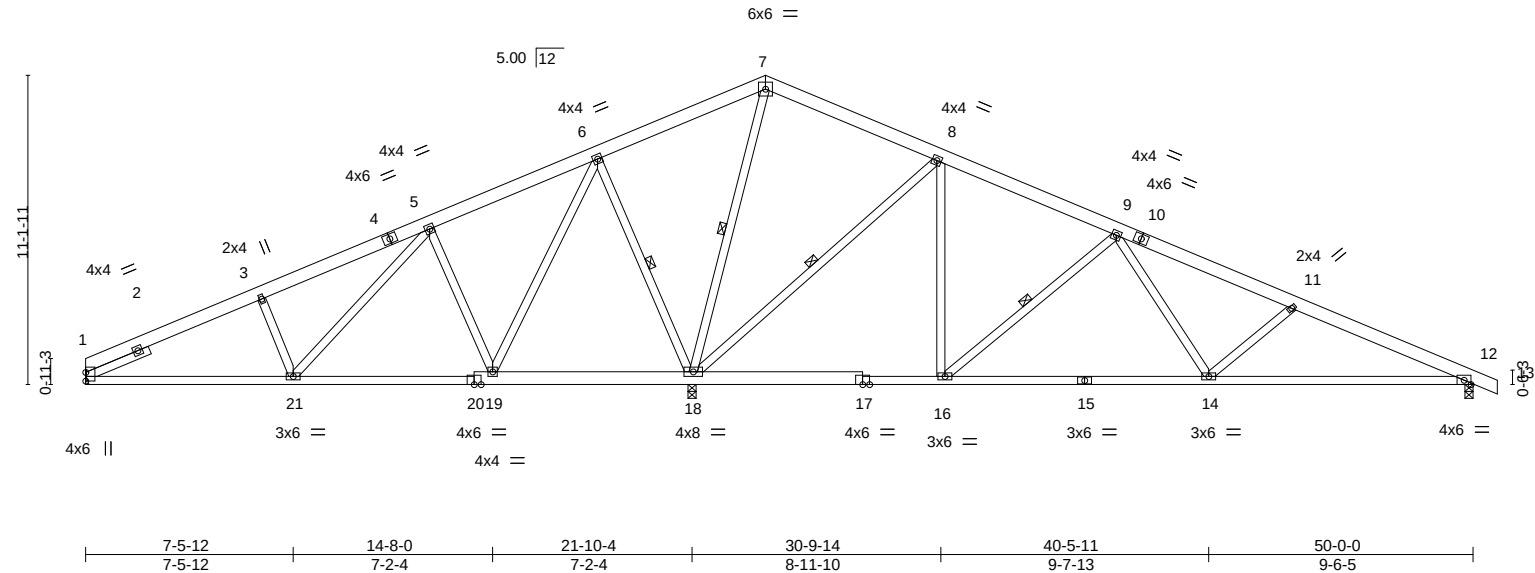
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ID:qMeyVrAyR40V1rvltLjLFizXPdf-72R9G4QtS?jiy1hBgMsQGwBTYciZSG0m76FKndyQaq0

6-4-2	12-4-12	18-5-6	24-6-0	30-9-14	37-1-11	43-5-9	50-0-0	50-10-8
6-4-2	6-0-10	6-0-10	6-0-10	6-3-14	6-3-14	6-3-14	6-6-7	0-10-8

Scale = 1:83.0



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 0.36	Vert(LL)	-0.15 14-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.33 14-16	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
17-20: 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 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 6-18, 7-18, 8-18, 9-16

REACTIONS. (size) 1=Mechanical, 18=0-3-8, 12=0-3-8
Max Horz 1=-114(LC 9)
Max Uplift 1=-37(LC 8), 18=-34(LC 8), 12=-68(LC 9)
Max Grav 1=650(LC 19), 18=3146(LC 1), 12=1017(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-854/172, 3-5=-788/216, 5-6=-53/620, 6-7=0/1321, 7-8=0/992, 8-9=-367/184,
9-11=-1409/134, 11-12=-1765/154
BOT CHORD 1-21=-122/788, 19-21=-445/239, 18-19=-767/160, 16-18=-147/265, 14-16=-6/905,
12-14=-85/1588
WEBS 3-21=-414/101, 5-21=-47/704, 5-19=-696/121, 6-19=-55/860, 6-18=-996/144,
7-18=-1268/0, 8-18=-1242/119, 8-16=0/738, 9-16=-853/114, 9-14=0/610,
11-14=-495/111

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 1, 18, 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.



October 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	143333276
2523899	B05	ROOF SPECIAL	3	1		
Job Reference (optional)						

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:34:54 2020 Page 1

ID:qMeyVrAyR40V1rvltLjLFizXPdf-bE?YTQRVDlrZaBG0E4Nfo8kXo?OfBh1vMm_uJ4yQaq?

6-4-2	12-4-12	18-5-6	24-6-0	29-0-0	32-5-9	35-11-1	39-11-1	43-2-4	47-2-8	50-0-0	50-10-8
6-4-2	6-0-10	6-0-10	6-0-10	4-6-0	3-5-9	3-5-8	4-0-0	3-3-3	4-0-4	2-9-8	0-10-8

Scale = 1:85.5

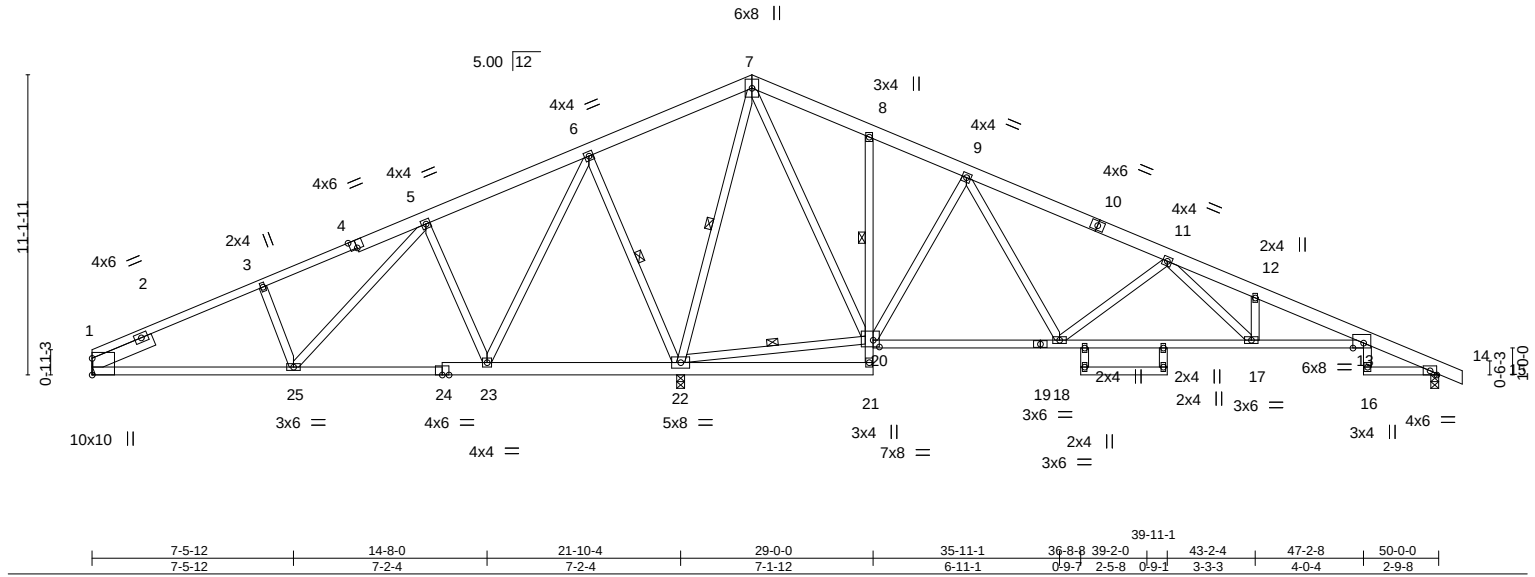


Plate Offsets (X,Y)--												[4:0-3-0,Edge], [13:0-4-12,Edge], [20:0-2-12,0-3-0]																															
LOADING (psf)				SPACING-				2-0-0				CSI.				DEFL.				in (loc)				l/defl				L/d				PLATES				GRIP							
TCLL 25.0				Plate Grip DOL				1.15				TC 0.78				Vert(LL)				-0.26 13-17				>999				240				MT20				197/144							
TCDL 10.0				Lumber DOL				1.15				BC 0.83				Vert(CT)				-0.43 13-17				>789				180															
BCLL 0.0				Rep Stress Incr				YES				WB 0.95				Horz(CT)				0.14 14				n/a				n/a															
BCDL 10.0				Code IRC2018/TPI2014								Matrix-AS																								Weight: 286 lb				FT = 20%			

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4: 2x4 SPF No.2, 10-15: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
21-24: 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except*
7-22: 2x4 SPF 1650F 1.5E
SLIDER Left 2x6 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 8-20
WEBS 1 Row at midpt 6-22, 7-22, 20-22

REACTIONS.

(size) 1=Mechanical, 14=0-3-8, 22=0-3-8
Max Horz 1=-115(LC 9)
Max Uplift 1=-344(LC 20), 14=-54(LC 9), 22=-31(LC 9)
Max Grav 1=527(LC 19), 14=725(LC 20), 22=3759(LC 1)

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

TOP CHORD 1-3=-583/956, 3-5=-520/991, 5-6=-12/1553, 6-7=0/2173, 7-8=0/1035, 8-9=0/987,
11-12=-1570/148, 12-13=-1449/105, 13-14=-334/48
BOT CHORD 1-25=-824/538, 23-25=-1289/206, 22-23=-1596/199, 18-20=-449/95, 17-18=-13/687,
13-17=-38/1406
WEBS 3-25=-477/89, 5-25=-33/844, 5-23=-737/121, 6-23=-52/879, 6-22=-1021/139,
7-22=-2552/61, 20-22=-1166/176, 7-20=-87/1063, 9-20=-907/118, 11-18=-829/129,
9-18=-19/764, 12-17=-607/73, 11-17=-35/1025

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 14, 22 except (jt=lb) 1=344.
- This truss 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.



October 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

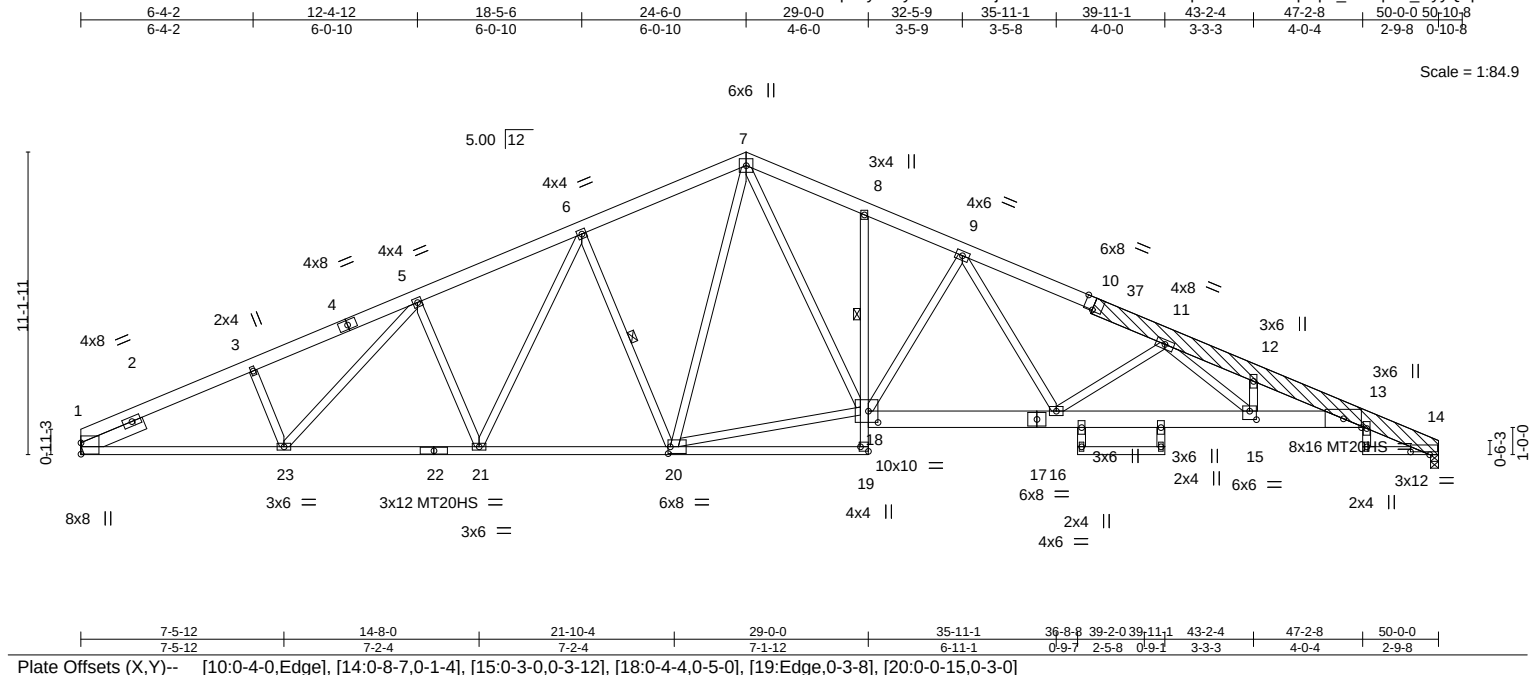
Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I4333277
2523899	B06	ROOF SPECIAL	2	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:34:56 2020 Page 1

ID:qMeyVrAyR40V1rvltJLFlzXPdF-Xd6lu5Smlw5HpVPmMVP7tZpslpe_fa6Cp4T_NyyQapz

Job Reference (optional)



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 0.87	Vert(LL)	-0.43	16-18	>999	240	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.78	16-18	>763	180	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.38	14	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 366 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied.
10-14: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied. Except:
BOT CHORD 2x4 SPF No.2 *Except*	1 Row at midpt 8-18
1-22: 2x4 SPF 1650F 1.5E, 17-18,13-17: 2x8 SP 2400F 2.0E	WEBS 1 Row at midpt 6-20
WEBS 2x4 SPF No.2	
OTHERS 2x8 SP 2400F 2.0E	
LBR SCAB 10-14 2x8 SP 2400F 2.0E one side	
SLIDER Left 2x6 SPF No.2 2-6-0	

REACTIONS.	(size) 1=Mechanical, 14=0-3-8
Max Horz 1=-107(LC 9)	
Max Uplift 1=-56(LC 8), 14=-58(LC 9)	
Max Grav 1=2244(LC 1), 14=2248(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-4267/123, 3-5=-4135/154, 5-6=-3880/149, 6-7=-3173/137, 7-8=-3789/160, 8-9=-3838/117, 9-11=-5149/136, 11-12=-7569/183, 12-13=-7433/154, 13-14=-855/44
BOT CHORD	1-23=-154/3793, 21-23=-93/3707, 20-21=-26/3184, 19-20=0/279, 16-18=0/4044, 15-16=-83/5775, 13-15=-87/7038
WEBS	5-21=-588/118, 6-21=-56/772, 6-20=-904/143, 7-20=-77/715, 18-20=0/2471, 7-18=-93/1825, 9-18=-1128/109, 11-16=-1437/157, 9-16=-28/1229, 12-15=-539/34, 11-15=-6/1738

- NOTES-**
- Attached 13-9-14 scab 10 to 14, 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 8-2-11 from end at joint 10, nail 2 row(s) at 2" o.c. for 3-5-8.
 - 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



October 23,2020

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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	4 WOODSIDE RIDGE
2523899	B07	ROOF SPECIAL	1	1	I43333278
Job Reference (optional)					

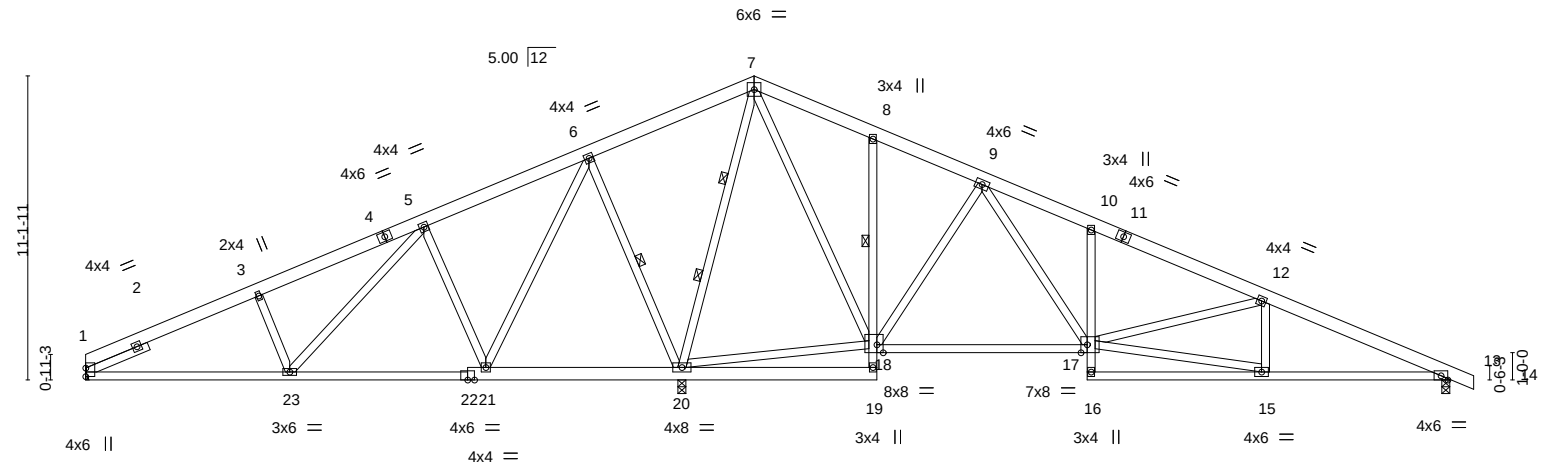
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:34:57 2020 Page 1

ID:qMeyVrAyR40V1rvltLjLFzXPdf-?pgg6RTOWDD8Rf_zvCwMQmM9ID7RO3SL2kDYvOyQapy

6-4-2	12-4-12	18-5-6	24-6-0	29-0-0	32-10-4	36-8-8	43-2-15	50-0-0	50-10-8
6-4-2	6-0-10	6-0-10	6-0-10	4-6-0	3-10-4	3-10-4	6-6-7	6-9-1	0-10-8

Scale = 1:84.4



Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I43333279
2523899	B08	GABLE	1	1		

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

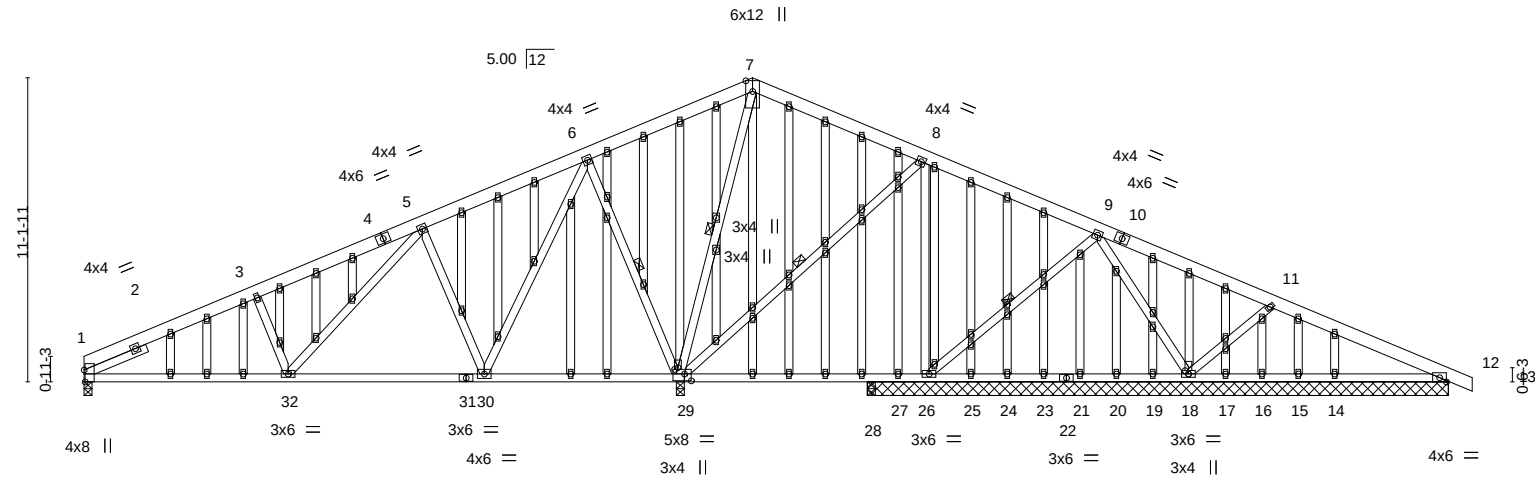
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:04 2020 Page 1

ID:qMeyVrAyR40V1rvitLjLFlzXPdf-lAbJaqZntN68mk1JqAY?CF8NC1WuXJsNfKPQfUyQapr

Job Reference (optional)

6-4-2 12-4-12 18-5-6 24-6-0 30-9-14 37-1-11 43-5-9 50-0-0 50-10-8
6-4-2 6-0-10 6-0-10 6-0-10 6-3-14 6-3-14 6-3-14 6-6-7 0-10-8

Scale = 1:84.4



7-5-12	14-8-0	21-10-4	29-0-0	30-9-14	40-5-11	50-0-0
7-5-12	7-2-4	7-2-4	7-1-12	1-9-14	9-7-13	9-6-5

Plate Offsets (X,Y)-- [1:0-5-4,Edge], [18:0-1-8,0-1-8], [29:0-0-12,0-1-8], [29:0-3-0,0-3-0]

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 0.27	Vert(LL)	-0.04	30-32	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.10	30-32	>999	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.01	29	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 436 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-29, 7-29, 8-29, 9-26
OTHERS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 2-6-0	

REACTIONS. All bearings 21-3-8 except (jt=length) 1=0-3-8, 29=0-3-8, 28=0-3-8.
(lb) - Max Horz 1=-114(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 12, 15 except 29=-117(LC 8), 27=-171(LC 3), 18=-141(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 25, 24, 23, 21, 20, 19, 17, 16, 15, 14 except 1=737(LC 19), 29=2063(LC 1), 26=496(LC 20), 12=370(LC 20), 18=708(LC 20), 28=313(LC 3), 12=355(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1034/54, 3-5=-974/85, 5-6=-265/114, 6-7=0/726, 7-8=0/522, 8-9=-15/311, 9-11=0/277, 11-12=-295/73
BOT CHORD 1-32=-89/954, 30-32=-18/422
WEBS 3-32=-356/104, 5-32=-50/623, 5-30=-677/121, 6-30=-56/852, 6-29=-999/145, 7-29=-844/14, 8-29=-276/57, 8-26=-329/116, 9-18=-414/84, 11-18=-499/123

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 12, 15, 12 except (jt=lb) 29=117, 27=171, 18=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.
 - 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.



October 23,2020

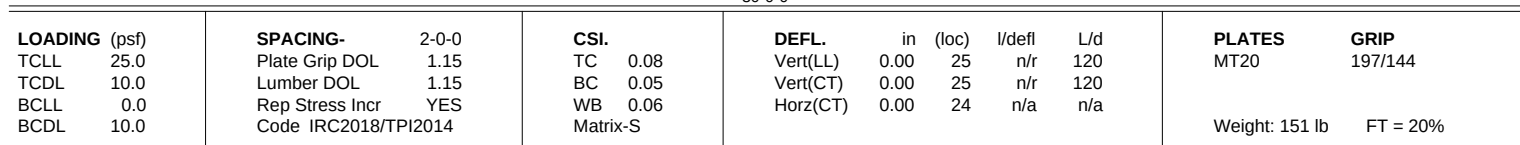
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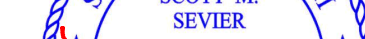
16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:05 2020 Page 1
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 -0-10-8 15-0-0 30-0-0 30-10-8
 0-10-8 15-0-0 15-0-0 0-10-8
 Scale = 1:51.7



REACTIONS. All bearings 30-0-0.
(lb) - Max Horz 2=62(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, 30, 29,
28, 27, 26, 24
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 37, 38, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30,
29, 28, 27, 24 except 45=256(LC 19), 26=256(LC 20)

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

- 



Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	143333281
2523899	D02	ROOF SPECIAL	1	1		

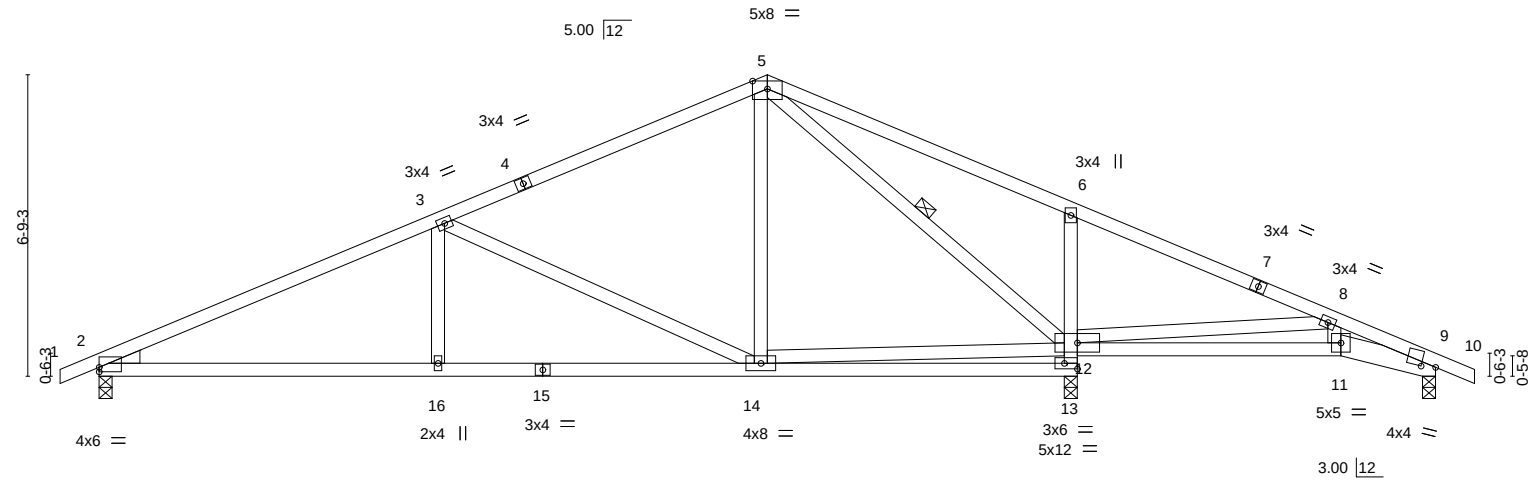
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:06 2020 Page 1

ID:oFqzD9W1eYjQgTPJlET7OAv7nF-EYj4?Wa1P_Ms01AhxbTgEeNrB0?5Dg6duWjNyQapp

0-10-8	7-7-5	15-0-0	21-11-8	27-10-8	30-0-0	30-10-8
0-10-8	7-7-5	7-4-11	6-11-8	5-11-0	2-1-8	0-10-8

Scale = 1:51.7



	7-7-5	15-0-0	21-9-12	21-11-8	27-10-8	30-0-0
	7-7-5	7-4-11	6-9-12	0-1-12	5-11-0	2-1-8

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [9:0-3-14,0-0-10], [13:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.07 16-19	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.15 16-19	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 124 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 9-11: 2x6 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 5-12

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 2=-62(LC 9)
 Max Uplift 2=-44(LC 8), 13=-39(LC 9), 9=-14(LC 9)
 Max Grav 2=969(LC 1), 13=1621(LC 1), 9=265(LC 20)

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

TOP CHORD 2-3=-1602/81, 3-5=-760/63, 5-6=0/527, 6-8=-32/529, 8-9=-460/0
 BOT CHORD 2-16=-74/1393, 14-16=-74/1393, 12-13=-1550/68, 6-12=-513/128, 11-12=0/425,
 9-11=0/448
 WEBS 3-16=0/294, 3-14=-896/111, 5-14=0/517, 12-14=0/528, 5-12=-1313/13, 8-12=-747/70

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 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) 2, 13, 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



October 23, 2020

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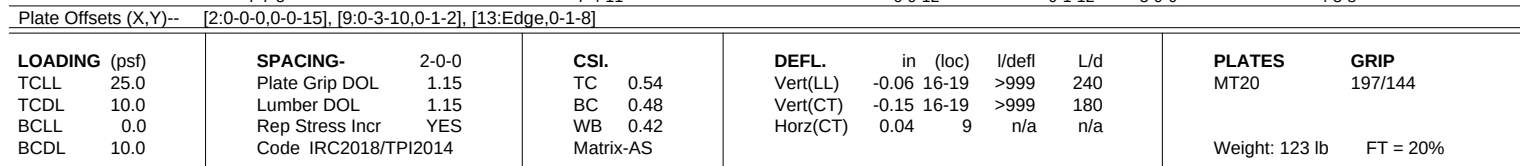
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:08 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:oFqzD9W1eYjQgTPJIET7Oayv7nF-AxrqPCcHwccaFLK430dxM5J_vftLT8gzaxNdoGYQapn

0-10-8 7-7-5 15-0-0 21-11-8 25-8-8 30-0-0 30-10-8
0-10-8 7-7-5 7-4-11 6-11-8 3-9-0 4-3-8 0-10-8

Scale = 1:51.7



REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 2=62(LC 8)
 Max Uplift 2=-45(LC 8), 13=-29(LC 9), 9=-21(LC 9)
 Max Grav 2=995(LC 1), 13=1526(LC 1), 9=319(LC 20)

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

TOP CHORD 2-3=-1664/83, 3-5=-815/65, 5-6=0/404, 6-8=-12/421, 8-9=-362/5

BOT CHORD 2-16=-76/1450, 14-16=-76/1450, 12-13=-1460/56, 6-12=-454/113, 11-12=0/270,
9-11=0/320

WEBS 3-16=0/297, 3-14=-900/111, 5-14=0/486, 12-14=0/638, 5-12=-1195/7, 8-12=-562/41

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Bearing at joint(s) 9 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, 13, 9.
- 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.



October 23, 2020

Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE
2523899	E03	COMMON STRUCTURAL GA	1	1	I43333284

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:10 2020 Page 1
ID:qMeyVrAyR40V1rvltLjLFizXPDf-7JzbqudYSDsIVfUTARfPSWOKQSXA4fG1Fsk8yQapl

0-10-8 7-2-2 14-3-0 21-3-14 28-6-0 29-4-8
0-10-8 7-2-2 7-0-14 7-0-14 7-2-2 0-10-8

Scale = 1:67.8

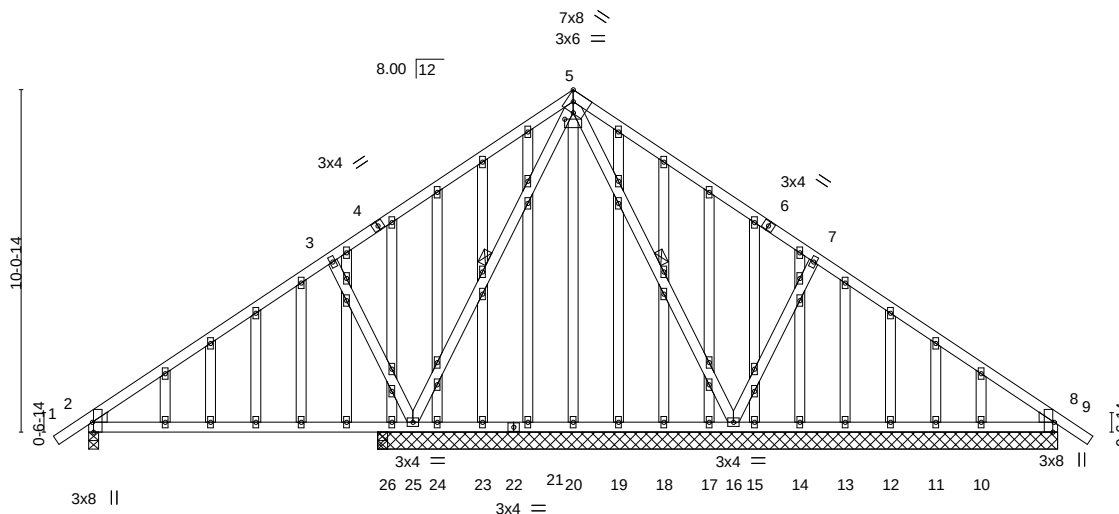


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-0-14,0-4-12], [2:0-0-7,0-0-10], [5:0-3-0,0-2-4], [8:0-0-7,0-0-10], [8:0-0-14,0-4-12], [8:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.10	26-62	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.22	26-62	>483	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.02	2	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 225 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
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.
WEBS 1 Row at midpt 5-16, 5-25

REACTIONS.

All bearings 20-0-0 except (jt=length) 2=0-3-8, 26=0-3-8, 26=0-3-8.
(lb) - Max Horz 2=-190(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 10 except 16=-100(LC 9),
25=-547(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 25, 20, 21, 23, 24, 19, 18, 17,
15, 14, 13, 12, 11, 10 except 2=583(LC 1), 16=659(LC 1), 8=374(LC 1),
26=676(LC 3), 26=426(LC 1), 8=374(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-496/65, 3-5=-330/121, 7-8=-408/50
BOT CHORD 2-26=-72/413, 25-26=-72/413
WEBS 5-16=-290/2, 7-16=-449/158, 3-25=-480/161

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 10 except (jt=lb) 16=100, 25=547.
- This truss 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.



October 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	4 WOODSIDE RIDGE	I43333285
2523899	E04	COMMON GIRDER	1	2	Job Reference (optional)	

LOAD CASE(S)
Standard

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

Uniform Loads (plf)

Vert: 1-6=-70, 6-10=-70, 15-18=-20

Concentrated Loads (lb)

Vert: 21=-221(F) 22=-221(F) 23=-221(F) 24=-221(F) 25=-582(F) 26=-582(F) 27=-582(F) 28=-630(F) 29=-507(F) 30=-2224(F) 31=-2224(F) 32=-507(F) 33=-507(F) 34=-630(F)

Job 2523899	Truss V01	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333286
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:13 2020 Page 1
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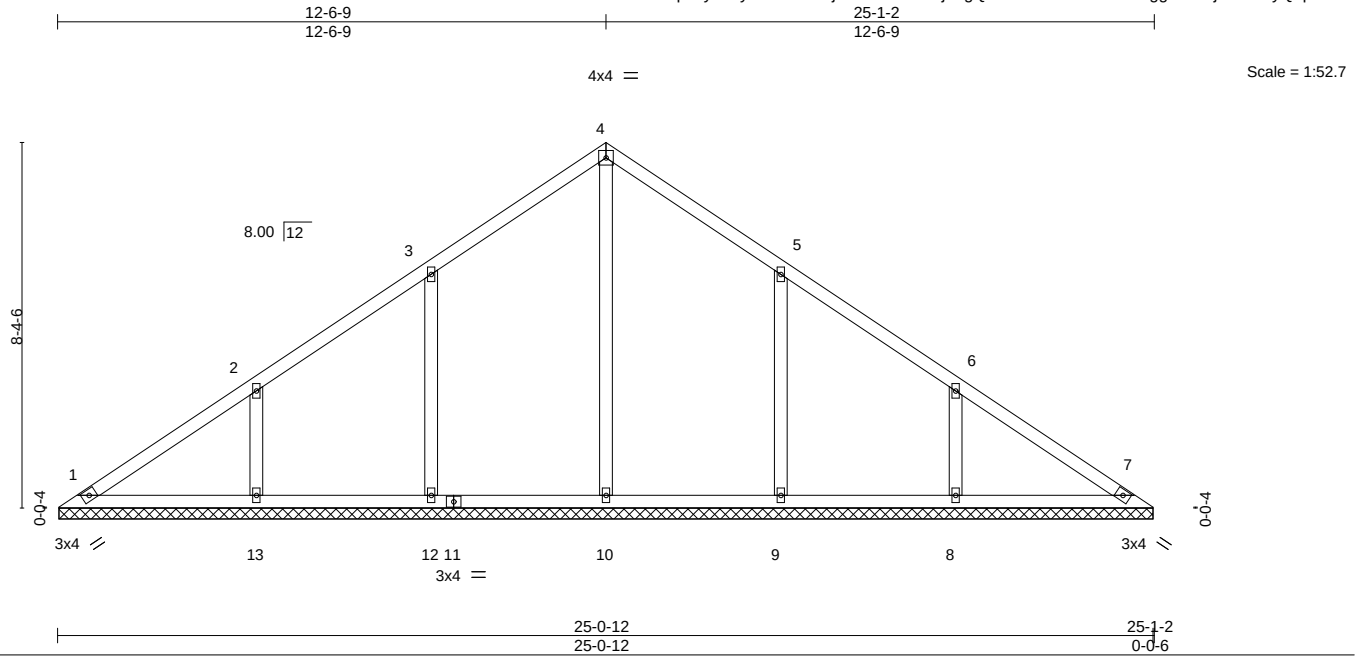


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	n/a	999
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.00	7	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 88 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 25-0-6.
(lb) - Max Horz 1=-151(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=293(LC 1), 12=370(LC 19), 13=408(LC 1), 9=370(LC 20), 8=408(LC 1)

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

WEBS 3-12=-296/104, 2-13=-308/107, 5-9=-296/104, 6-8=-308/107

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 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, 12, 13, 9, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 23, 2020

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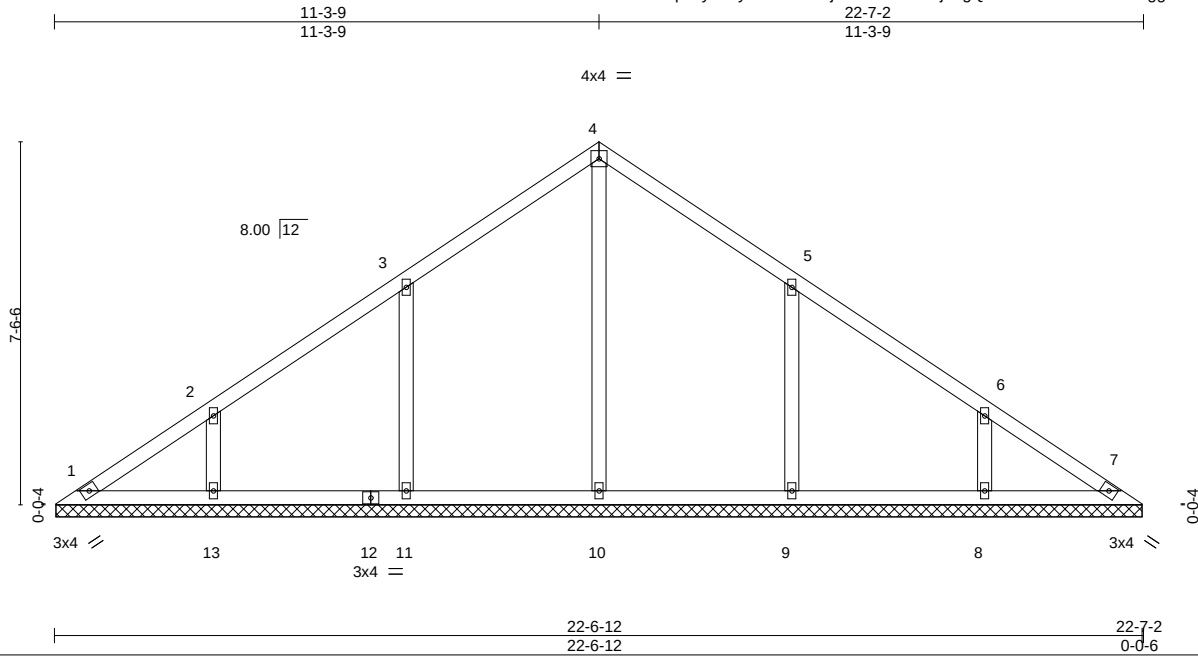


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523899	Truss V02	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333287
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:13 2020 Page 1
ID:qMeyVrAyR40V1rvltLjLFlzXPDf-XuejTvgQl8FsM6D1rZD6380w4ggc8TbjD5OTTyQapi



Scale: 1/4"=1'

Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a - n/a	999	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a - n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00 7 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 77 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 22-6-6.
(lb) - Max Horz 1=135(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 13, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=285(LC 1), 11=390(LC 19), 13=335(LC 1), 9=390(LC 20), 8=335(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-309/109, 2-13=-256/90, 5-9=-309/109, 6-8=-256/90

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 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, 11, 13, 9, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523899	Truss V03	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333288
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:14 2020 Page 1
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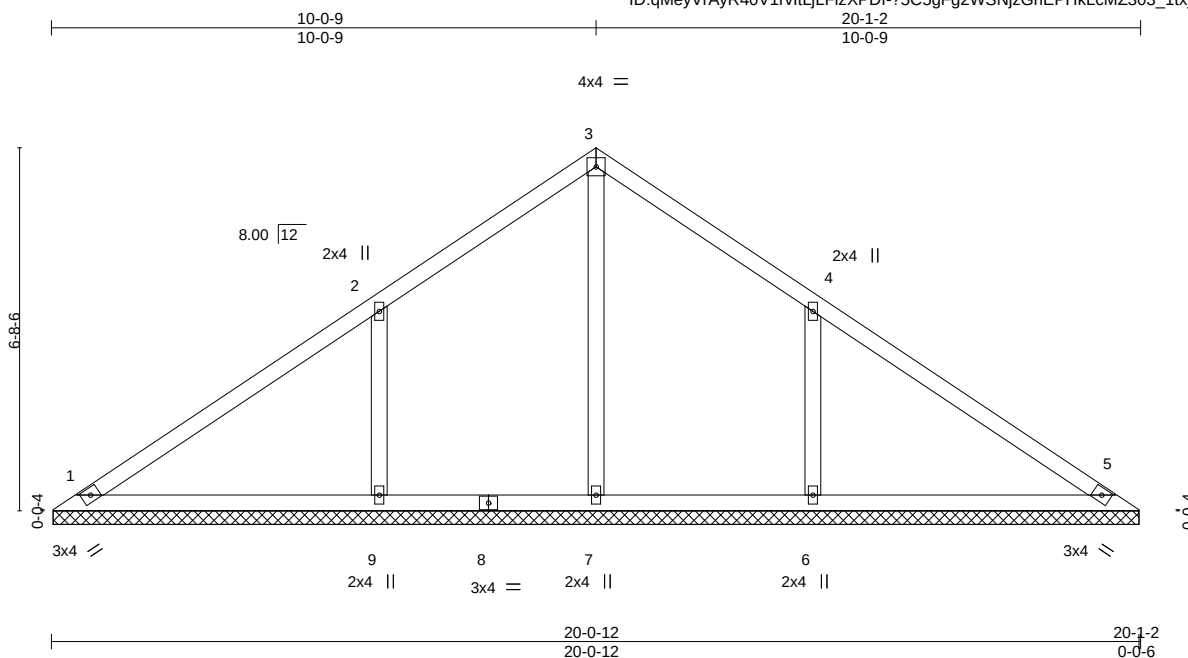


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 64 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 20-0-6.
(lb) - Max Horz 1=-120(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) except 9=-100(LC 8), 6=-100(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=542(LC 19), 6=542(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-409/141, 4-6=-409/141

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 9 and 100 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 23, 2020

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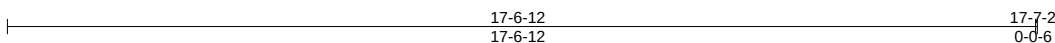
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job Reference (optional)

Scale = 1:39.4



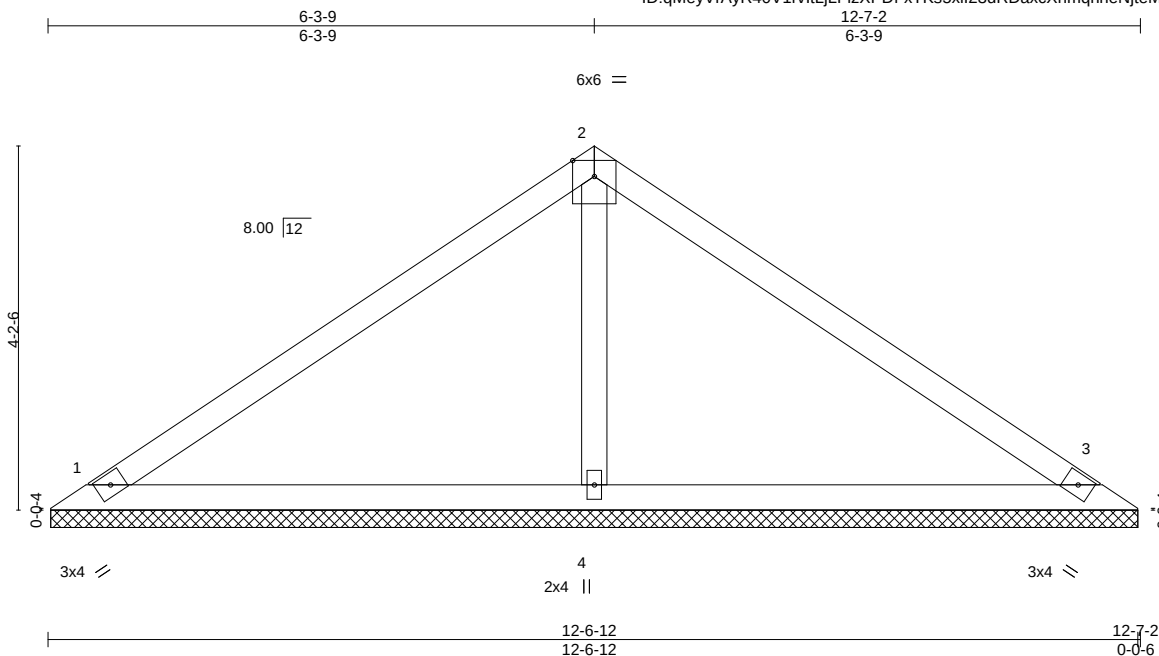
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Job 2523899	Truss V06	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333291
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:16 2020 Page 1
ID:qMeyVrAyR40V1rvltLjLFzXPDf-xTKs5xii23dRDaxcXhmqhneNjteMLrj8PBj24oyQapf



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 34 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=12-6-6, 3=12-6-6, 4=12-6-6
Max Horz 1=-73(LC 4)
Max Uplift 1=-16(LC 8), 3=-23(LC 9)
Max Grav 1=257(LC 1), 3=257(LC 1), 4=532(LC 1)

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

WEBS 2-4=-355/36

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



October 23, 2020

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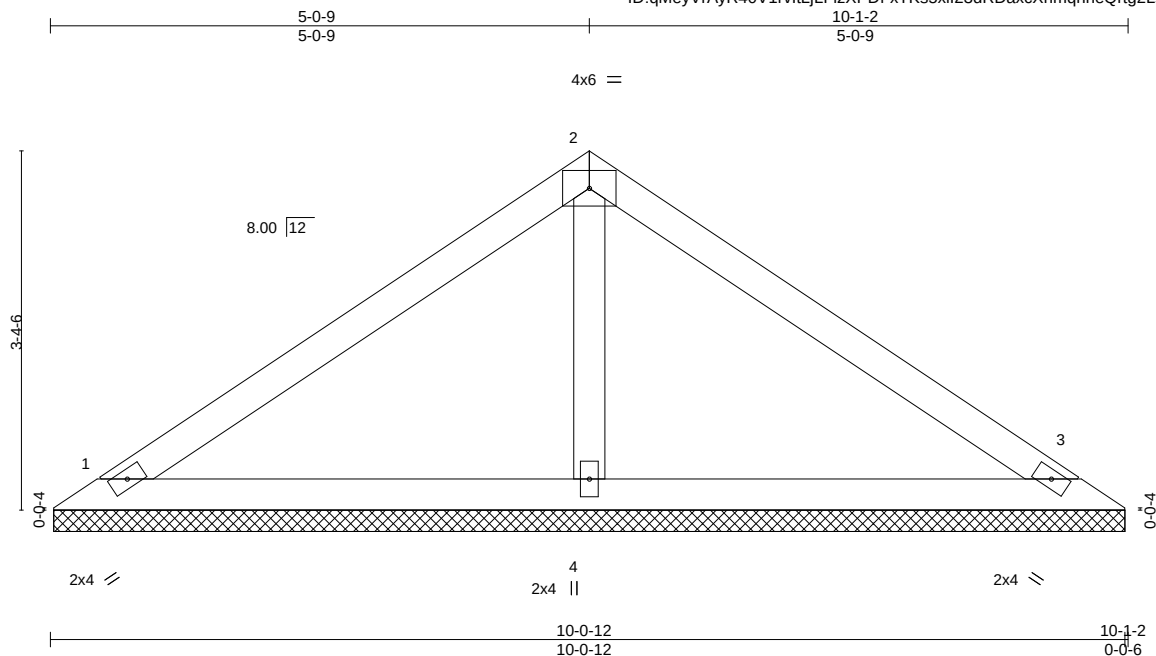


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523899	Truss V07	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333292
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:16 2020 Page 1
ID:qMeyVrAyR40V1rvltLjLFzXPdf-xTKs5xl23dRDaxcXhmqhneQrtg2LsP8PBj24oyQapf



Scale = 1:21.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 27 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=10-0-6, 3=10-0-6, 4=10-0-6
Max Horz 1=57(LC 5)
Max Uplift 1=-13(LC 8), 3=-18(LC 9)
Max Grav 1=202(LC 1), 3=202(LC 1), 4=418(LC 1)

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

WEBS 2-4=-279/28

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



October 23, 2020

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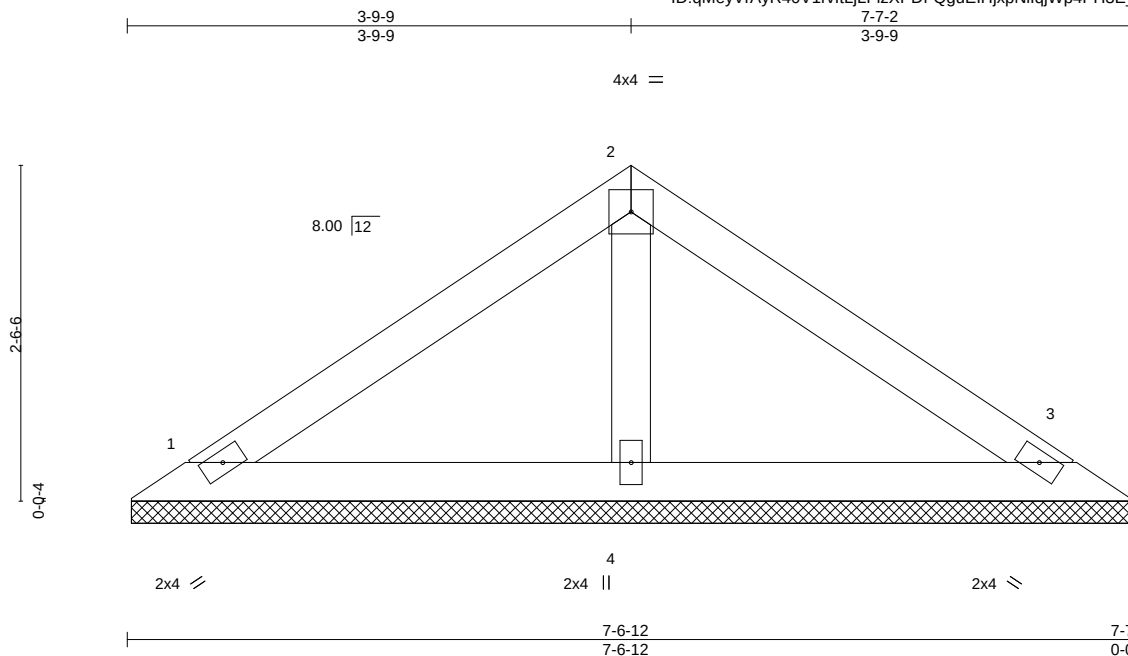


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2523899	Truss V08	Truss Type VALLEY	Qty 1	Ply 1	4 WOODSIDE RIDGE Job Reference (optional)	I43333293
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Oct 23 08:35:17 2020 Page 1
ID:qMeyVrAyR40V1rvltLjLFizXPdf-QguEIHxpNllqjWp4PH3E_BczH1Z4J3ler3ccEyQape



Scale = 1:17.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	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=7-6-6, 3=7-6-6, 4=7-6-6
Max Horz 1=-41(LC 6)
Max Uplift 1=-14(LC 8), 3=-18(LC 9)
Max Grav 1=162(LC 1), 3=162(LC 1), 4=274(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



October 23, 2020

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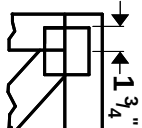
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



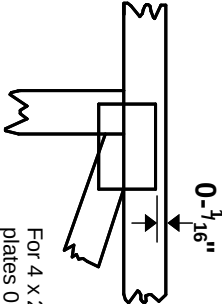
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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 20120 software or upon request.**

PLATE SIZE

4 X 4

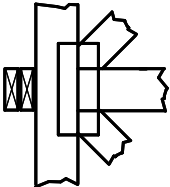
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



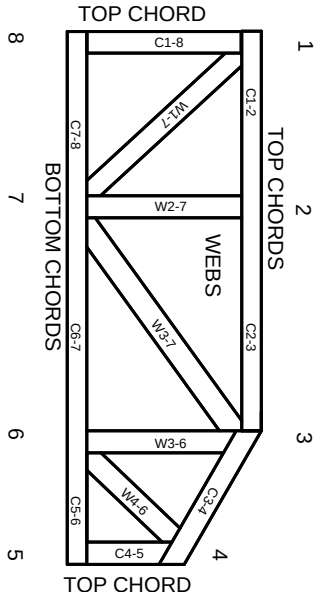
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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