



10/22/2021

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

Re: 2945168
Summit/WOODSIDE RIDGE #56/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: I48163970 thru I48164045

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

Missouri COA: Engineering 001193



October 4, 2021

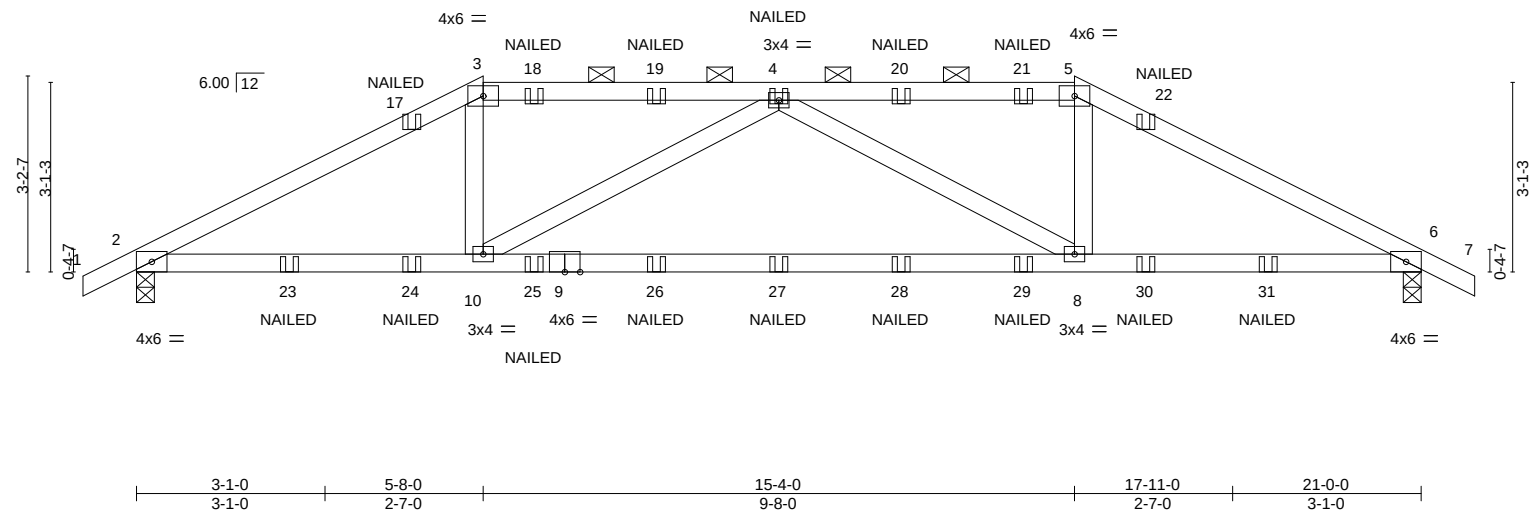
Sevier, Scott ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	A1	Hip Girder	1	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Aug 16 2021 MiTek Industries, Inc	Thu Sep 30 14:38:17 2021 Page 1
Job Reference (optional)						OTzhquh-K-SB-9WcG63N-VLWY-Ply	10/22/2021

0-10-8	3-1-0	5-8-0	10-6-0	15-4-0	17-11-0	21-0-0	21-10-8
0-10-8	3-1-0	2-7-0	4-10-0	4-10-0	2-7-0	3-1-0	0-10-8

Scale = 1:37.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.29	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.61				
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.07				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 70 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except
 2-0-0 oc purlins (3-6-15 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 8-8-13 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
 Max Horz 2=50(LC 8)
 Max Uplift 2=335(LC 8), 6=335(LC 9)
 Max Grav 2=1480(LC 1), 6=1480(LC 1)

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

TOP CHORD 2-3=-2568/539, 3-4=-2204/519, 4-5=-2204/519, 5-6=-2568/540
 BOT CHORD 2-10=-457/2239, 8-10=-630/2675, 6-8=-407/2239
 WEBS 3-10=-89/727, 5-8=-89/727, 4-10=-632/294, 4-8=-632/294

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) 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 335 lb uplift at joint 2 and 335 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.
- 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.
- 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=-70, 3-5=-70, 5-7=-70, 11-14=-20
 Concentrated Loads (lb)
 Vert: 4=-50(F) 18=-50(F) 19=-50(F) 20=-50(F) 21=-50(F) 23=-152(F) 24=-120(F) 25=-30(F) 26=-30(F) 27=-30(F) 28=-30(F)
 29=-30(F) 30=-120(F) 31=-152(F)



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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



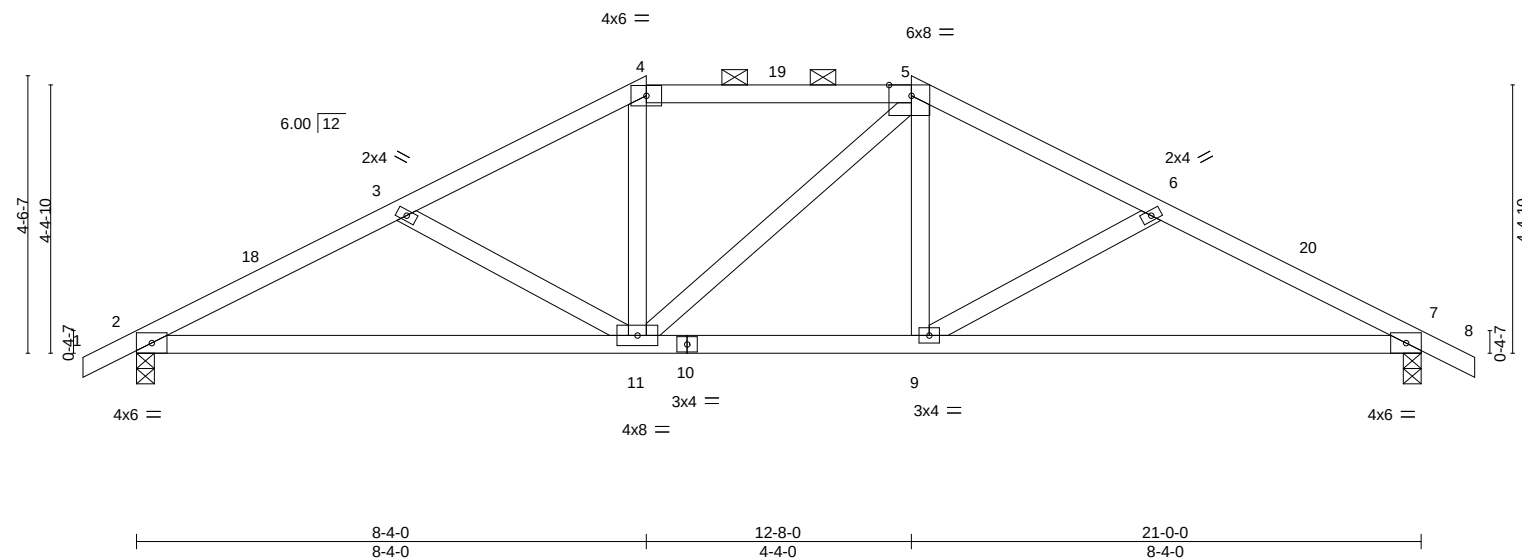
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	A2	Hip	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

ID:3GmZIGChwWZGARvEueXVyXyPZ34-go?RmJsWfJnPUJKff1viWmAlknfnglVmpvixYYPdx

0-10-8 4-5-0 8-4-0 12-8-0 16-7-0 21-0-0 21-10-8
 0-10-8 4-5-0 3-11-0 4-4-0 3-11-0 4-5-0 0-10-8

Scale = 1:37.7



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)	-0.10 9-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.22 9-17	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 78 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	2-0-0 oc purlins (5-1-11 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-72(LC 13)
 Max Uplift 2=-140(LC 12), 7=-140(LC 13)
 Max Grav 2=1006(LC 1), 7=1006(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1664/287, 3-4=-1377/243, 4-5=-1173/247, 5-6=-1376/243, 6-7=-1664/287
 BOT CHORD 2-11=-217/1460, 9-11=-101/1172, 7-9=-201/1460
 WEBS 3-11=-324/141, 4-11=-13/317, 5-9=-20/317, 6-9=-324/141

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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-0, Exterior(2E) 8-4-0 to 12-8-0, Exterior(2R) 12-8-0 to 16-8-14, Interior(1) 16-8-14 to 21-10-8 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.
- 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 140 lb uplift at joint 2 and 140 lb uplift at joint 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.
- 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.



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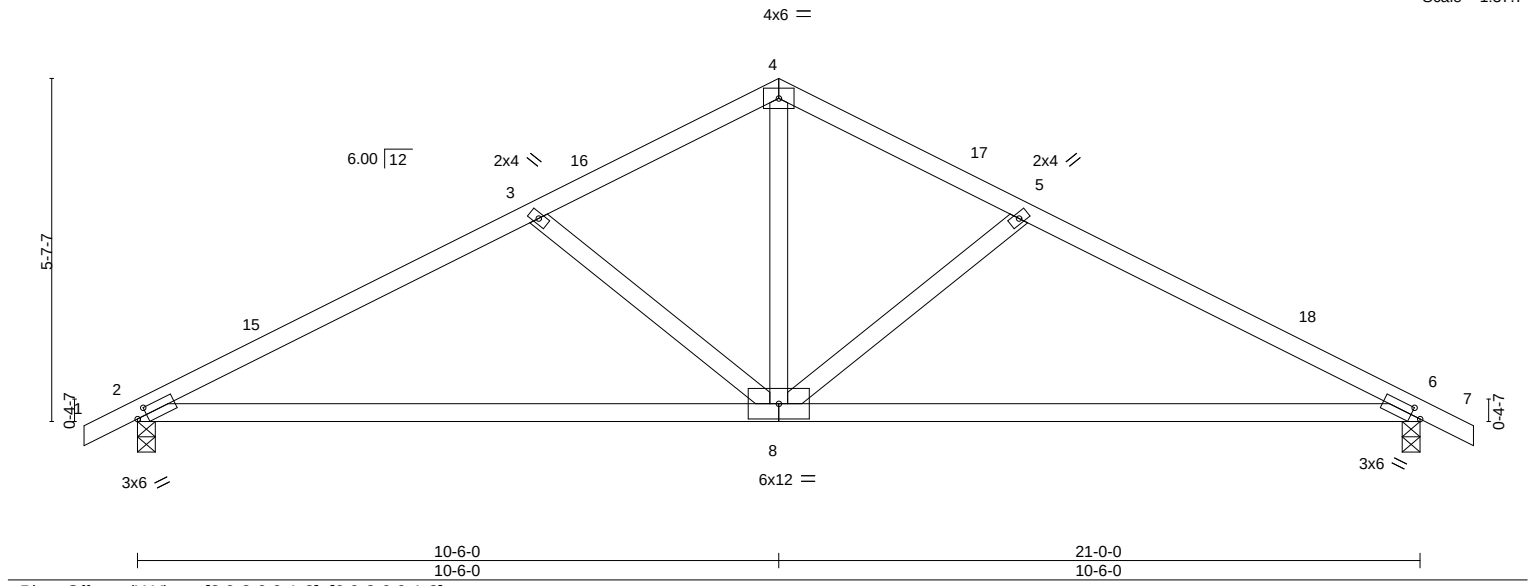
Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	A3	Common	1	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI	

ID:3GmZIGCHwWZGARvEueXVyXyPZ34-cB7BB?unBw16kcU2mSxAbKSTYUW712v316pYCP

Job Reference (optional)

0-10-8 6-6-13 10-6-0 14-5-3 21-0-0 21-10-8
0-10-8 6-6-13 3-11-3 3-11-3 6-6-13 0-10-8

Scale = 1:37.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.19 8-11 >999 240	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.42 8-11 >598 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.04 6 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 70 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=90(LC 12)
Max Uplift 2=-136(LC 12), 6=-136(LC 13)
Max Grav 2=1006(LC 1), 6=1006(LC 1)

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

TOP CHORD 2-3=-1531/296, 3-4=-1181/251, 4-5=-1181/251, 5-6=-1531/296
BOT CHORD 2-8=-181/1321, 6-8=-178/1321
WEBS 4-8=-130/799, 5-8=-450/187, 3-8=-450/187

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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 21-10-8 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 136 lb uplift at joint 2 and 136 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.
- 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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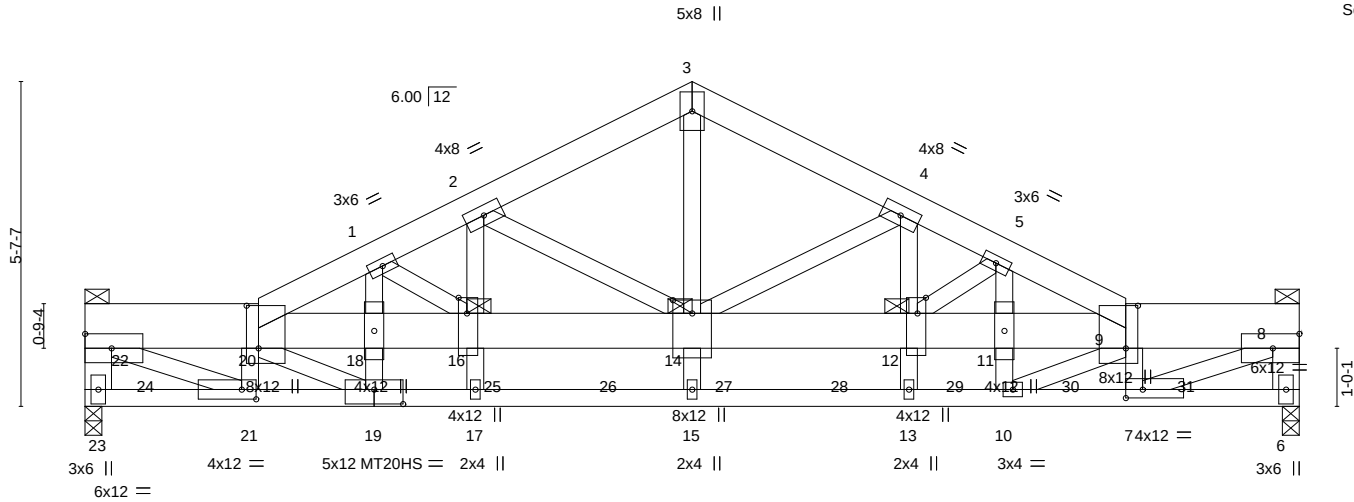
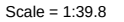
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3-0-0	6-9-0	8-0-0	10-6-0	13-0-0	14-3-0	15-10-13	18-0-0	21-0-0
3-0-0	3-9-0	1-3-0	2-6-0	2-6-0	1-3-0	1-7-13	2-1-3	3-0-0

Plate Offsets (X,Y)--											
		[7:0-3-8,0-1-12], [9:0-8-14,0-2-8], [12:0-3-4,0-1-12], [14:0-2-12,0-4-0], [16:0-3-4,0-1-12], [19:0-6-0,0-3-0], [20:0-8-14,0-2-8], [21:0-3-0,0-2-0]									
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	0.59	Vert(LL)	-0.02 14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.22 12-14	>999	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.08 6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 345 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2400F 2.0E *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	9-20: 2x8 SP 2400F 2.0E, 20-22,8-9: 2x10 SP 2400F 2.0E		6-0-0 oc bracing: 20-22, 8-9
	2x4 SPF No.2 *Except*	JOINTS	1 Brace at Jt(s): 22, 8, 14, 16, 12
	22-23,6-8: 2x6 SPF No.2, 21-22,7-8: 2x4 SPF 1650F 1.5E		

REACTIONS. (size) 23=0-3-8, 6=0-3-8
Max Horz 23=76(LC 26)
Max Grav 23=6636(LC 1), 6=6380(LC 1)

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

TOP CHORD	22-23=6305/0, 1-20=10143/0, 1-2=8885/0, 2-3=6243/0, 3-4=6243/0, 4-5=8938/0, 5-9=10175/0, 6-8=6047/0
BOT CHORD	21-23=0/879, 19-21=0/8822, 17-19=0/8891, 15-17=0/8891, 13-15=0/8891, 10-13=0/8891, 7-10=0/8975, 6-7=0/864, 20-22=8435/0, 18-20=142/462, 16-18=41/557, 14-16=1074/0, 12-14=1032/0, 11-12=11/586, 9-11=181/602, 8-9=8543/0
WEBS	20-21=3496/0, 7-9=3564/0, 21-22=0/8115, 7-8=0/8270, 3-14=0/5175, 2-16=0/2456, 4-12=0/2512, 4-14=2858/0, 2-14=2801/0, 1-16=1569/0, 1-18=0/1191, 5-11=0/1260, 5-12=1593/0, 9-10=365/260, 19-20=168/453

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-6-0 oc, 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 22-21 2x4 - 1 row at 0-9-0 oc, member 7-8 2x4 - 1 row at 0-9-0 oc, member 3-14 2x4 - 1 row at 0-9-0 oc, member 2-16 2x4 - 1 row at 0-9-0 oc, member 4-12 2x4 - 1 row at 0-9-0 oc, member 14-4 2x4 - 1 row at 0-9-0 oc, member 14-2 2x4 - 1 row at 0-9-0 oc, member 16-17 2x4 - 1 row at 0-9-0 oc, member 14-15 2x4 - 1 row at 0-9-0 oc, member 12-13 2x4 - 1 row at 0-9-0 oc, member 16-1 2x4 - 1 row at 0-9-0 oc, member 1-18 2x4 - 1 row at 0-9-0 oc, member 18-19 2x4 - 1 row at 0-9-0 oc, member 11-10 2x4 - 1 row at 0-9-0 oc, member 11-5 2x4 - 1 row at 0-9-0 oc, member 5-12 2x4 - 1 row at 0-9-0 oc, member 9-10 2x4 - 1 row at 0-9-0 oc, member 19-20 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCdL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) This truss 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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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	A4	ROOF SPECIAL GIRDER	1	2	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

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

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10/22/2021

NOTES-

- 8) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-20=-70, 3-9=-70, 21-23=-140, 7-21=-20, 6-7=-140, 20-22=-140, 8-9=-140
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-237 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-20=-58, 3-9=-58, 21-23=-115, 7-21=-20, 6-7=-115, 20-22=-115, 8-9=-115
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-204 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-20=-20, 3-9=-20, 21-23=-40, 7-21=-20, 6-7=-40, 20-22=-40, 8-9=-40
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-158 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=-1, 3-9=10, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=11, 3-20=-11, 3-9=22, 6-8=16, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=10, 3-9=-1, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=-16, 3-20=-22, 3-9=11, 6-8=-11, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=-20, 3-9=-8, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51
Horz: 22-23=22, 3-20=-0, 3-9=12, 6-8=6, 20-22=11, 8-9=-11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=-8, 3-9=-20, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51
Horz: 22-23=-6, 3-20=-12, 3-9=0, 6-8=-22, 20-22=11, 8-9=-11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=25, 3-9=9, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=6, 3-20=-37, 3-9=21, 6-8=14, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=9, 3-9=25, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=-14, 3-20=-21, 3-9=37, 6-8=-6, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=14, 3-9=4, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=6, 3-20=-26, 3-9=16, 6-8=14, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 3-20=4, 3-9=14, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10
Horz: 22-23=-14, 3-20=-16, 3-9=26, 6-8=-6, 20-22=-11, 8-9=11
Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE
2945168	A4	ROOF SPECIAL GIRDER	1	2	#56/MO
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:38:52 2021 Page 3		
			ID:3GmZIGCHwWZGARvEueXvYxYPZ34-YaExchv1jYHqzwJQuetzglJnnL3zhxJLQNr8AyyVPT		
			Job Reference (optional)		

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
148163923

10/22/2021

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 3-20=6, 3-9=-10, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51
Horz: 22-23=17, 3-20=-26, 3-9=10, 6-8=3, 20-22=11, 8-9=-11
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-10, 3-9=6, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51
Horz: 22-23=-3, 3-20=-10, 3-9=26, 6-8=-17, 20-22=11, 8-9=-11
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 3-20=-20, 3-9=-20, 21-23=-40, 7-21=-20, 6-7=-40, 20-22=-40, 8-9=-40
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-105 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-57, 3-9=-49, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123
Horz: 22-23=16, 3-20=-0, 3-9=9, 6-8=4, 20-22=8, 8-9=-8
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-49, 3-9=-57, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123
Horz: 22-23=-4, 3-20=-9, 3-9=0, 6-8=-16, 20-22=8, 8-9=-8
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-38, 3-9=-50, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123
Horz: 22-23=13, 3-20=-20, 3-9=8, 6-8=2, 20-22=8, 8-9=-8
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-50, 3-9=-38, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123
Horz: 22-23=-2, 3-20=-8, 3-9=20, 6-8=-13, 20-22=8, 8-9=-8
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-16, 3-9=-12, 21-23=-20, 7-21=-8, 6-7=-20, 20-22=-20, 8-9=-20
Horz: 22-23=16, 3-20=4
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 20) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 3-20=-12, 3-9=-16, 21-23=-20, 7-21=-8, 6-7=-20, 20-22=-20, 8-9=-20
Horz: 3-9=-4, 6-8=-16
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-54 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-20=-70, 3-9=-20, 21-23=-140, 7-21=-20, 6-7=-40, 20-22=-140, 8-9=-40
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-237 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-20=-20, 3-9=-70, 21-23=-40, 7-21=-20, 6-7=-140, 20-22=-40, 8-9=-140
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-237 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 23) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-20=-58, 3-9=-20, 21-23=-115, 7-21=-20, 6-7=-40, 20-22=-115, 8-9=-40
- Concentrated Loads (lb)
Vert: 20=-1002(B) 9=-204 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)
- 24) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-20=-20, 3-9=-58, 21-23=-40, 7-21=-20, 6-7=-115, 20-22=-40, 8-9=-115

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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	#56/MO
2945168	A4	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	AS NOTED FOR PLAN REVIEW

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

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ID:3GmZIGCHwWZGARvEueXVyXyPZ34-YaExchvjYHqzwJQuetzglJnnL5zhkLQNr8AmYvPmT

10/22/2021

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-204 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=-1, 3-9=10, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=11, 3-20=-11, 3-9=22, 6-8=16, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=10, 3-9=-1, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=-16, 3-20=-22, 3-9=11, 6-8=-11, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=-20, 3-9=-8, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51

Horz: 22-23=22, 3-20=0, 3-9=12, 6-8=6, 20-22=11, 8-9=-11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=-8, 3-9=-20, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51

Horz: 22-23=-6, 3-20=-12, 3-9=0, 6-8=-22, 20-22=11, 8-9=-11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=25, 3-9=9, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=6, 3-20=-37, 3-9=21, 6-8=14, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=9, 3-9=25, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=-14, 3-20=-21, 3-9=37, 6-8=-6, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=14, 3-9=4, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=6, 3-20=-26, 3-9=16, 6-8=14, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=4, 3-9=14, 21-23=-10, 7-21=-8, 6-7=-10, 20-22=-10, 8-9=-10

Horz: 22-23=-14, 3-20=-16, 3-9=26, 6-8=-6, 20-22=-11, 8-9=11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B)

30=-985(B) 31=-985(B)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=6, 3-9=-10, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51

Horz: 22-23=17, 3-20=-26, 3-9=10, 6-8=3, 20-22=11, 8-9=-11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B)

30=-985(B) 31=-985(B)

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=-10, 3-9=6, 21-23=-51, 7-21=-20, 6-7=-51, 20-22=-51, 8-9=-51

Horz: 22-23=-3, 3-20=-10, 3-9=26, 6-8=-17, 20-22=11, 8-9=-11

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-114 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B)

30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=-57, 3-9=-49, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123

Horz: 22-23=16, 3-20=0, 3-9=9, 6-8=4, 20-22=8, 8-9=-8

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-186 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B)

30=-985(B) 31=-985(B)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	A4	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:38:52 2021 Page 5						LEE'S SUMMIT, MISSOURI
ID:3GmZIGCHwWZGARvEueXVyXyPZ34-YaExchv1jYHqzwJQutzegLnnL3zhSLGNr8AyytP						10/22/2021

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 3-20=-49, 3-9=-57, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123

Horz: 22-23=-4, 3-20=-9, 3-9=0, 6-8=-16, 20-22=8, 8-9=-8

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-186 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=-38, 3-9=-50, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123

Horz: 22-23=13, 3-20=-20, 3-9=8, 6-8=2, 20-22=8, 8-9=-8

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-186 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

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

Uniform Loads (plf)

Vert: 3-20=-50, 3-9=-38, 21-23=-123, 7-21=-20, 6-7=-123, 20-22=-123, 8-9=-123

Horz: 22-23=-2, 3-20=-8, 3-9=20, 6-8=-13, 20-22=8, 8-9=-8

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-186 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

39) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=-16, 3-9=-12, 21-23=-20, 7-21=-8, 6-7=-20, 20-22=-20, 8-9=-20

Horz: 22-23=16, 3-20=4

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-110 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(B)

40) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-20=-12, 3-9=-16, 21-23=-20, 7-21=-8, 6-7=-20, 20-22=-20, 8-9=-20

Horz: 3-9=-4, 6-8=-16

Concentrated Loads (lb)

Vert: 20=-1002(B) 9=-110 18=-1002(B) 24=-960(B) 25=-1002(B) 26=-1002(B) 27=-985(B) 28=-985(B) 29=-985(B) 30=-985(B) 31=-985(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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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



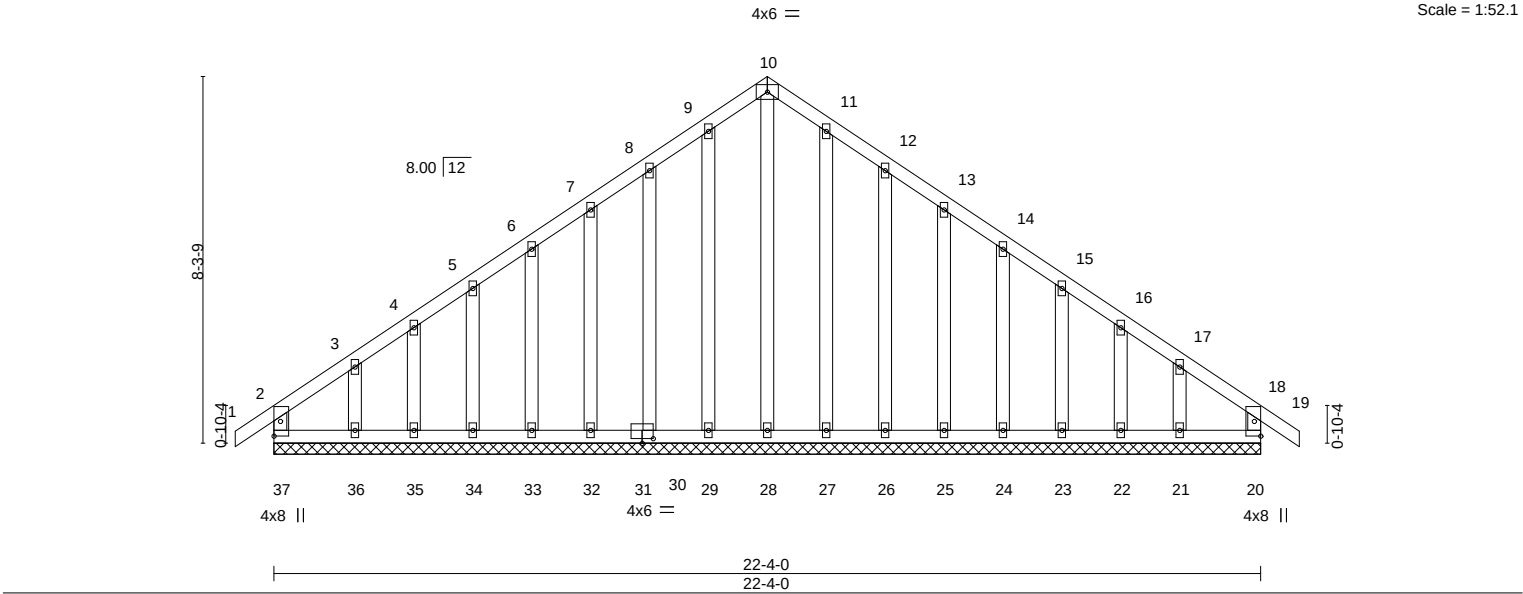
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	B1	Common Supported Gable	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:38:54 2021 Page 1

ID:3GmZIGChwWZGARvEueXVyXyPZ34-UyMi0NxHE9XYDDnp2106mAcP13KJMRdthGfFaYpPr

10/22/2021



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00				
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00				
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							
										Weight: 136 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 22-4-0.

(lb) - Max Horz 37=-210(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 37, 20, 29, 30, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except 36=-120(LC 12), 21=-108(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 37, 20, 28, 29, 30, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21

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) gable end zone and C-C Corner(3E) -0-10-8 to 1-10-0, Exterior(2N) 1-10-0 to 11-2-0, Corner(3R) 11-2-0 to 14-2-0, Exterior(2N) 14-2-0 to 23-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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) 37, 20, 29, 30, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=120, 21=108.
 - This truss 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 4,2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	B2	Common	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

0-10-8 5-8-12 11-2-0 16-7-4 22-4-0 23-2-8
0-10-8 5-8-12 5-5-4 5-5-4 5-8-12 0-10-8

4x6 //

Scale = 1:48.8

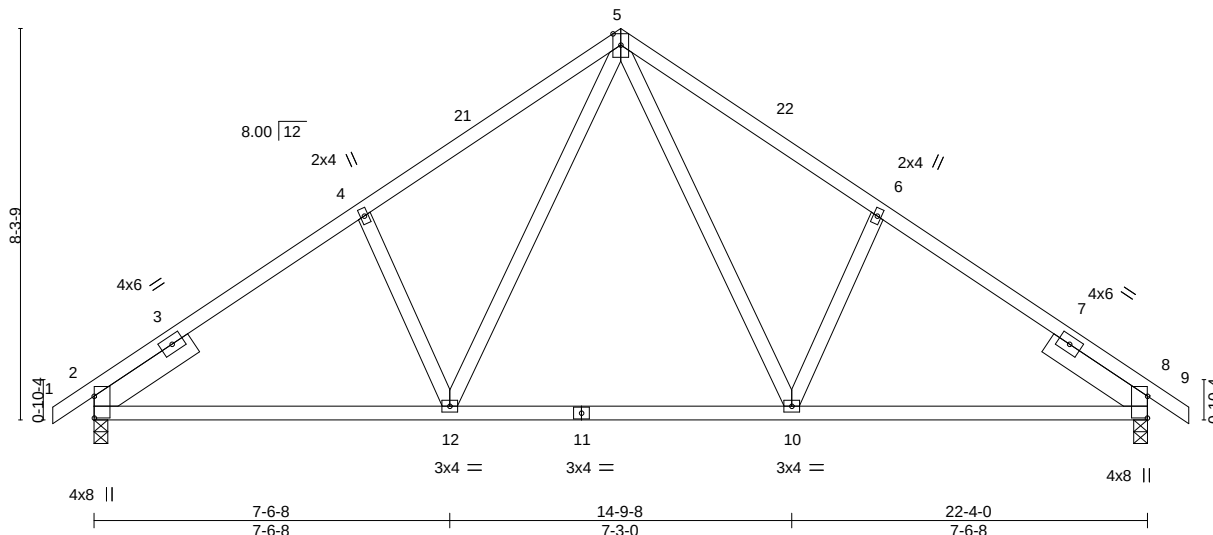


Plate Offsets (X,Y)--		[2:0-5-9,0-0-1], [8:0-5-9,0-0-1]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.28		Vert(LL) -0.05 10-12	>999	240	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.40		Vert(CT) -0.12 10-12	>999	180		
BCLL 0.0		Rep Stress Incr YES		WB 0.20		Horz(CT) 0.03 8	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS					Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=188(LC 11)
Max Uplift 2=-132(LC 12), 8=-132(LC 13)
Max Grav 2=1066(LC 1), 8=1066(LC 1)

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

TOP CHORD 2-4=-1278/178, 4-5=-1178/243, 5-6=-1178/243, 6-8=-1278/178
BOT CHORD 2-12=-166/1008, 10-12=-24/711, 8-10=-58/1006
WEBS 5-10=-146/472, 6-10=-312/205, 5-12=-146/472, 4-12=-312/205

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 23-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 8=132.
- 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	B3	GABLE	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:38:57 2021 Page 1						10/22/2021
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Job Reference (optional)						

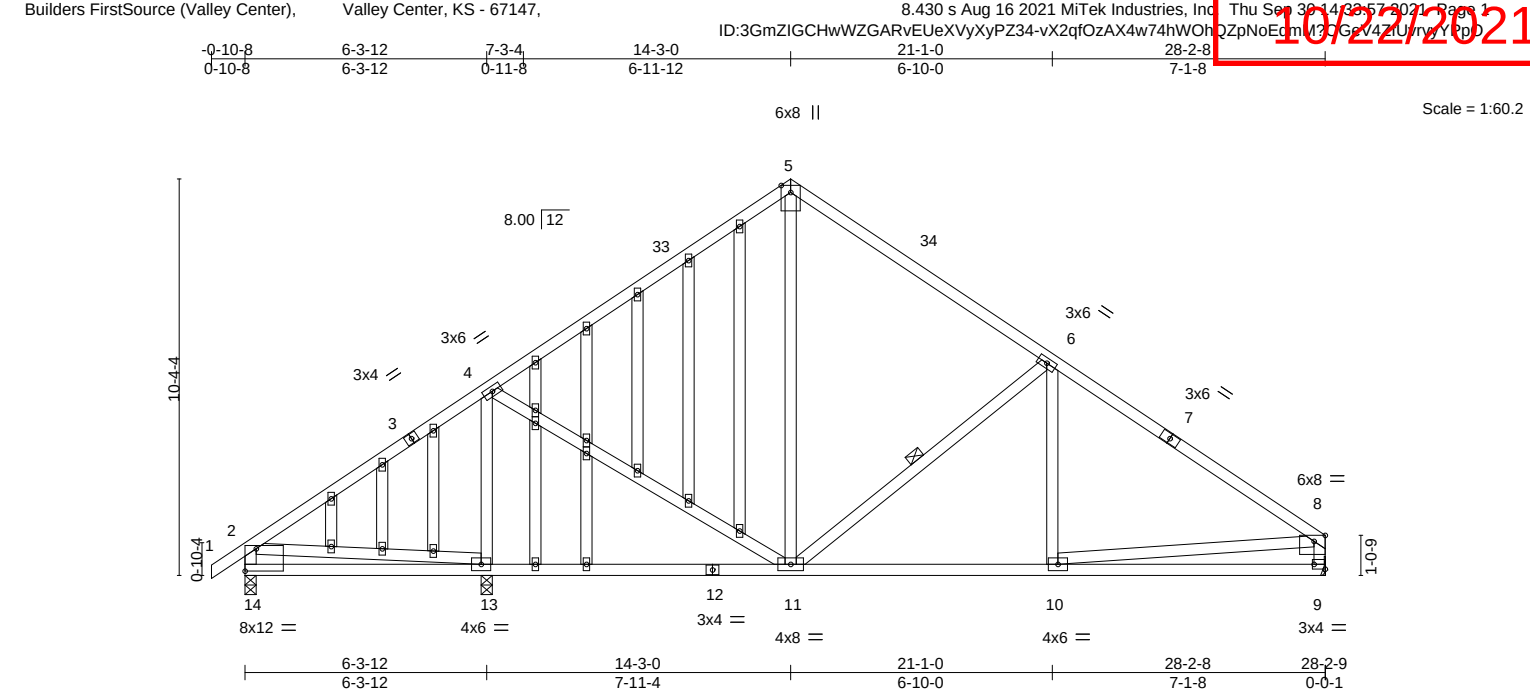


Plate Offsets (X,Y)--	[8:0-3-8,Edge], [9:Edge,0-1-8], [14:Edge,0-7-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.07 11-13	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.14 11-13	>999
BCLL 0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.02 9	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS			
					PLATES	GRIP
					MT20	197/144
					Weight: 173 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-11

REACTIONS.

(size) 14=0-3-8, 9=Mechanical, 13=0-3-8
 Max Horz 14=255(LC 9)
 Max Uplift 14=-22(LC 13), 9=-123(LC 13), 13=-184(LC 12)
 Max Grav 14=317(LC 25), 9=958(LC 1), 13=1345(LC 1)

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

TOP CHORD 4-5=-758/202, 5-6=-734/186, 6-8=-1194/166, 2-14=-267/76, 8-9=-888/150
 BOT CHORD 13-14=-235/346, 10-11=-57/890, 9-10=-90/301
 WEBS 5-11=-74/291, 6-11=-542/227, 8-10=0/593, 4-13=-1171/231, 4-11=-12/572

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-3-0, Exterior(2R) 14-3-0 to 17-3-0, Interior(1) 17-3-0 to 28-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (it=lb) 9=123, 13=184.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 4, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #6/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	B4	Common	4	1	Job Reference (optional)	8.430 s Nov 18 2020 MITek Industries, Inc. Fri Oct 1 13:28:36 2021 Page 1
Builders First Source, Valley Center, KS 67147						8.430 s Nov 18 2020 MITek Industries, Inc. Fri Oct 1 13:28:36 2021 Page 1

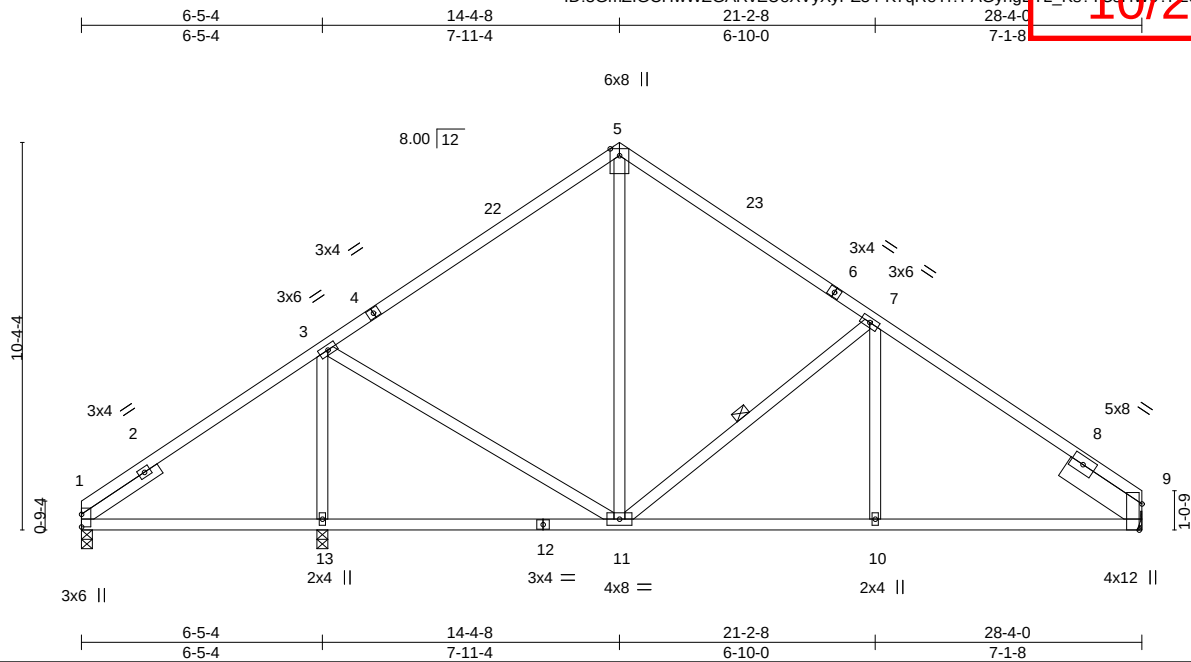


Plate Offsets (X,Y)-- [9:0-8-6,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.07 11-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.13 11-13	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.03 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
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -d 2-6-0, Right 2x8 SP 2400F 2.0E -d 2-6-0

BRACING-
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-11

REACTIONS. (lb/size) 1=346/0-3-8, 13=1202/0-3-8, 9=1002/Mechanical
Max Horz 1=224(LC 9)
Max Uplift 1=-90(LC 13), 13=-95(LC 12), 9=-145(LC 13)
Max Grav 1=360(LC 25), 13=1202(LC 1), 9=1002(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-828/190, 4-22=-663/211, 5-22=-636/238, 5-23=-647/220, 6-23=-663/198,
6-7=-796/179, 7-8=-1224/211, 8-9=-277/0
BOT CHORD 1-13=-158/271, 12-13=-158/271, 11-12=-158/271, 10-11=-71/938, 9-10=-71/938
WEBS 3-13=-1031/147, 3-11=0/441, 5-11=-112/334, 7-11=-533/232, 7-10=0/254

- NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-4-8, Exterior(2R) 14-4-8 to 17-4-8,
Interior(1) 17-4-8 to 28-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 90 lb uplift at joint 1, 95 lb uplift at joint 13
and 145 lb uplift at joint 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.

LOAD CASE(S) Standard



October 4, 2021

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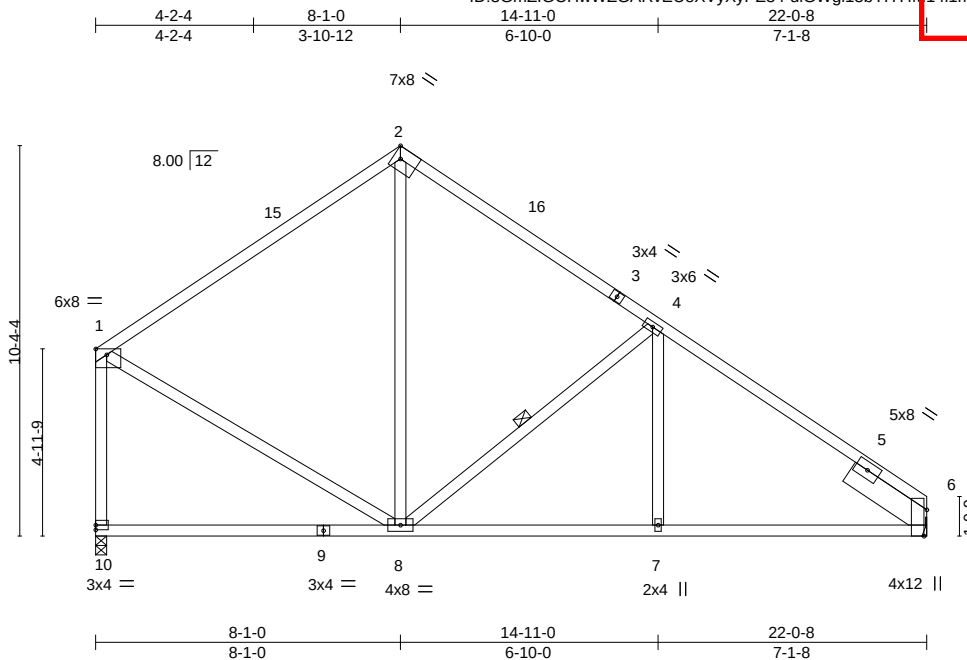


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #	6/MO	AS NOTED FOR PLAN REVIEW
2945168	B5	COMMON	5	1	Job Reference (optional)	8.430 s Nov 18 2020 MITek Industries, Inc. Fri Oct 1 13:29:00 2021 Page 1	DEVELOPMENT SERVICE
Builders First Source, Valley Center, KS 67147						141ImUzKXEW1BKUGU7iLxYXnaH	LEE'S SUMMIT, MISSOURI

ID:3GmZIGCHwWZGARvEUEvXyXyPZ34-dIGWgl13bYHYM

10/22/2021



Scale = 1:61.1

Plate Offsets (X,Y)-- [1:Edge,0-1-14], [6:0-8-6,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.10	8-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.20	8-10	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x8 SP 2400F 2.0E -d 2-6-0

BRACING-
TOP CHORD Sheathed, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-8

REACTIONS. (lb/size) 10=985/0-3-8, 6=985/Mechanical
Max Horz 10=-286(LC 10)
Max Uplift 10=-112(LC 13), 6=-118(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-790/161, 2-15=-598/189, 2-16=-622/200, 3-16=-641/177, 3-4=-771/159,
4-5=-1197/172, 5-6=-283/0, 1-10=-909/155
BOT CHORD 9-10=-189/264, 8-9=-189/264, 7-8=-55/916, 6-7=-55/916
WEBS 1-8=-59/568, 2-8=-56/328, 4-8=-532/237

- 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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-1-0, Exterior(2R) 8-1-0 to 11-1-0, Interior(1) 11-1-0 to 22-0-8 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 112 lb uplift at joint 10 and 118 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.
 - 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.

LOAD CASE(S) Standard



October 4, 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

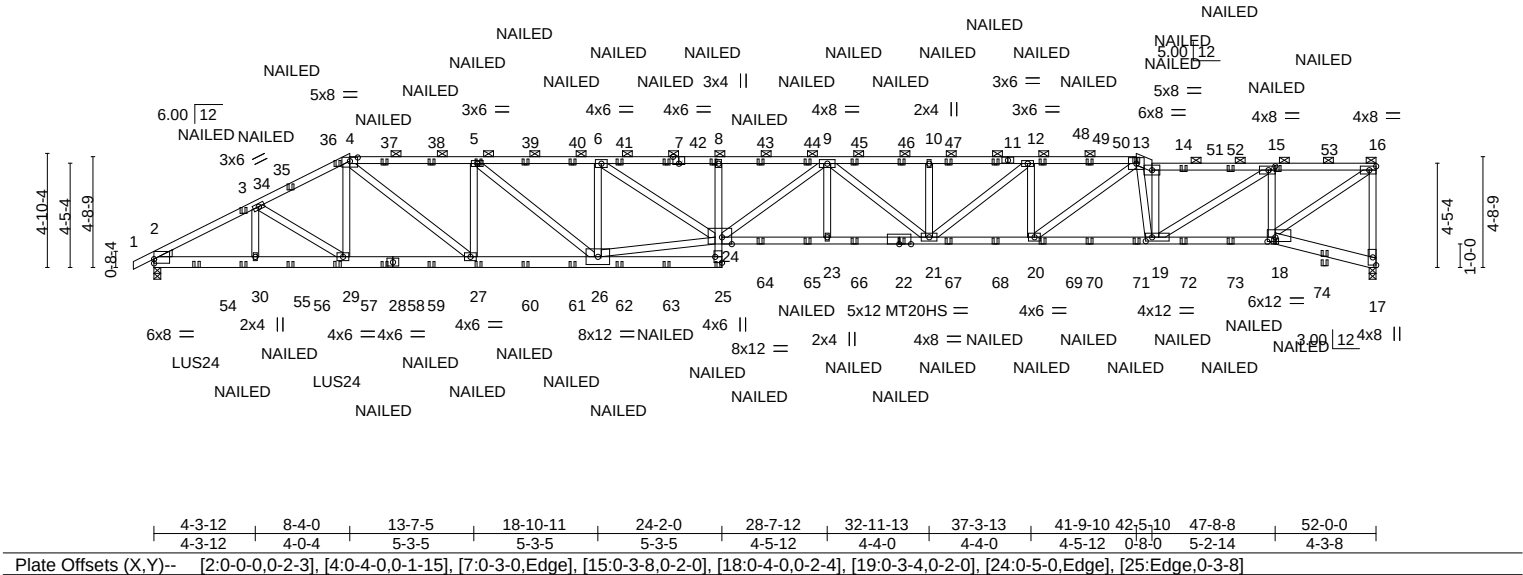


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C1	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:10 2021 Page 1
ID:3GmZIGChWZGARvEUEXVyXyPZ34-01KINr7KT4YH7h2uxfttPYH-macFpQM-2B85pYVY-PrB
0-10-8 4-3-12 8-4-0 13-7-5 18-10-11 24-2-0 28-7-12 32-11-13 37-3-13 41-9-10 42-5-10 47-8-8 52-0-0
0-10-8 4-3-12 4-0-4 5-3-5 5-3-5 5-3-5 4-5-12 4-4-0 4-4-0 4-5-12 0-8-0 5-2-14 4-3-8

Scale = 1:98.0



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 0.98	Vert(LL)	0.84 23-24	>738	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-1.46 23-24	>427	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.35 17	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 771 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 13-14: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 4-13, 14-16.
BOT CHORD 2x6 SPF No.2 *Except* 8-25: 2x4 SPF No.2, 22-24: 2x4 SP 2400F 2.0E 18-22: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size) 17=0-3-8, 2=0-3-8 Max Horz 2=155(LC 7) Max Uplift 17=-1562(LC 5), 2=-1374(LC 5) Max Grav 17=4421(LC 1), 2=4662(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-8136/2510, 3-4=-8298/2732, 4-5=-10669/3660, 5-6=-12624/4373, 6-8=-16947/5941, 8-9=-17130/6001, 9-10=-15928/5625, 10-12=-15928/5625, 12-13=-13892/4919, 13-14=-11923/4220, 14-15=-10916/3860, 15-16=-5557/1964, 16-17=-4352/1572
BOT CHORD	2-30=-2346/7158, 29-30=-2346/7158, 27-29=-2535/7437, 26-27=-3712/10666, 25-26=-488/1447, 24-25=-49/291, 8-24=-522/250, 23-24=-6071/17109, 21-23=-6071/17109, 20-21=-4972/13892, 19-20=-3867/10753, 18-19=-2091/5738
WEBS	3-30=-315/192, 3-29=-268/468, 4-29=-102/532, 4-27=-1542/4242, 5-27=-2482/1014, 5-26=-945/2596, 6-26=-3521/1376, 24-26=-4037/11442, 6-24=-1840/5082, 9-23=-216/566, 9-21=-1543/500, 10-21=-437/180, 12-21=-900/2633, 12-20=-2064/738, 14-19=-4496/1600, 15-19=-2168/6135, 15-18=-3901/1428, 16-18=-2489/6940, 13-19=-557/1611, 13-20=-1391/3992

- NOTES-
- 3-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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=15ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 22 = 16%



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	C1	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Aug 16 2021 MiTek Industries, Inc.
Thu Sep 30 14 34 10 2021 Page 2
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-01KINr7KT4YH7hPuxfttPYH-macFpQM_ZB85pTYVPrB

10/22/2021

- NOTES-**
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 17 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) 17=1562, 2=1374.
 - This truss 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 6-0-0 oc max. starting at 1-9-12 from the left end to 7-9-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-70, 4-13=-70, 13-14=-70, 14-16=-70, 25-31=-20, 18-24=-20, 17-18=-20
 - Concentrated Loads (lb)
 - Vert: 13=-66(B) 25=-58(B) 8=-115(B) 22=-98(B) 18=-98(B) 27=-58(B) 5=-115(B) 15=-67(B) 34=-40(B) 37=-115(B) 38=-115(B) 39=-115(B) 40=-115(B) 41=-115(B) 42=-115(B) 43=-19(B) 44=-19(B) 45=-19(B) 46=-66(B) 47=-66(B) 48=-66(B) 49=-66(B) 50=-66(B) 51=-66(B) 52=-66(B) 53=-98(B) 54=-242(B) 55=-128(B) 56=-181(B) 57=-230(B) 58=-58(B) 59=-58(B) 60=-58(B) 61=-58(B) 62=-58(B) 63=-58(B) 64=-152(B) 65=-152(B) 66=-152(B) 67=-98(B) 68=-98(B) 69=-98(B) 70=-98(B) 71=-98(B) 72=-98(B) 73=-98(B) 74=-62(B)

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C2	Hip	1	1	Job Reference (optional)	148163990

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

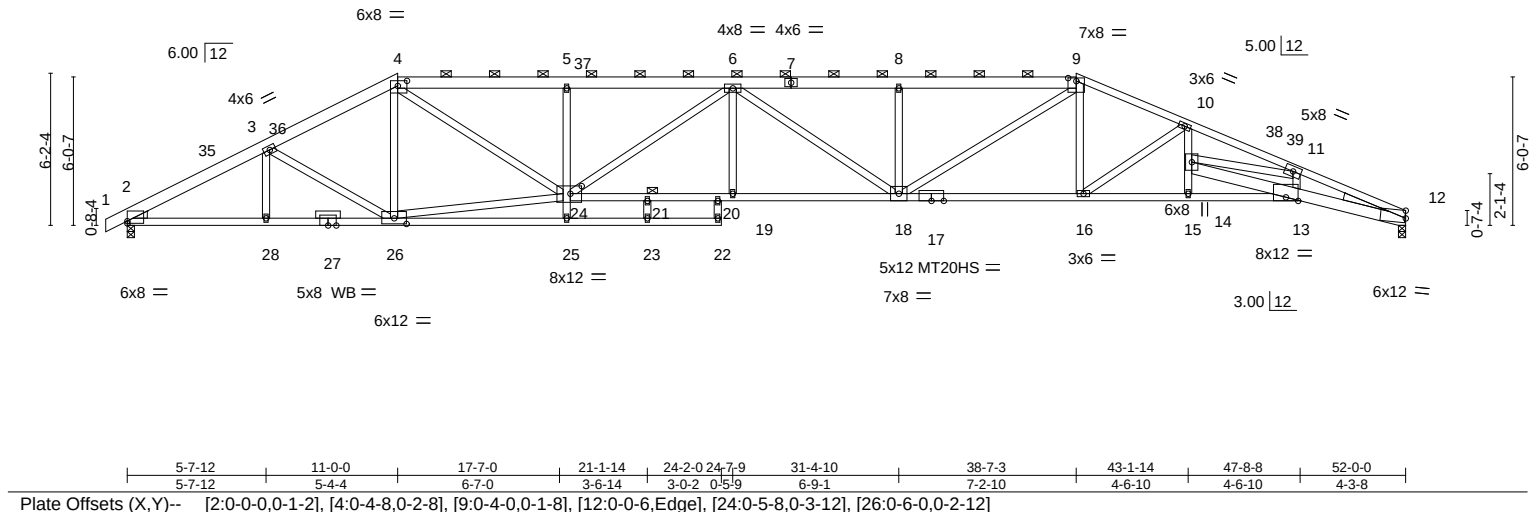
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:21 2021 Page 1

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10/22/2021

-0-10-8	5-7-12	11-0-0	17-7-0	24-2-0	24-7-9	31-4-10	38-7-3	43-1-14	47-8-8	52-0-0
0-10-8	5-7-12	5-4-4	6-7-0	6-7-0	0-5-9	6-9-1	7-2-10	4-6-10	4-6-10	4-3-8

Scale = 1:93.7



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 0.81	Vert(LL)	-0.73 18-19	>853	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-1.33 18-19	>468	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.50 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 293 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
9-12: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E *Except*
12-14: 2x6 SP 2400F 2.0E, 22-27: 2x4 SPF No.2
WEBS 2x4 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 (2-3-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied. Except:
9-10-0 oc bracing: 13-15
JOINTS 1 Brace at Jt(s): 21

REACTIONS.

(size) 12=0-3-8, 2=0-3-8
Max Horz 2=100(LC 12)
Max Uplift 12=285(LC 9), 2=270(LC 9)
Max Grav 12=2339(LC 1), 2=2402(LC 1)

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

TOP CHORD 2-3=-4305/542, 3-4=-4055/598, 4-5=-5939/940, 5-6=-5951/938, 6-8=-6311/1001,
8-9=-6317/1005, 9-10=-5339/790, 10-11=-6378/862, 11-12=-8611/1084
BOT CHORD 2-28=-416/3713, 26-28=-416/3713, 21-24=-906/6553, 20-21=-906/6553, 19-20=-906/6553,
18-19=-906/6553, 16-18=-603/4880, 15-16=-712/5802, 13-15=-717/5792,
13-14=-301/2246, 12-13=-974/7940
WEBS 4-26=-341/137, 8-18=-639/204, 9-18=-310/1866, 9-16=-62/738, 11-13=-47/744,
10-14=-50/704, 10-16=-1087/205, 11-14=-2040/285, 24-25=0/275, 5-24=-522/183,
24-26=-417/3505, 4-24=-453/2794, 6-19=0/255, 6-18=-443/55, 6-24=-833/154

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-3-14, Interior(1) 4-3-14 to 11-0-0, Exterior(2R) 11-0-0 to 18-4-4, Interior(1) 18-4-4 to 38-7-3, Exterior(2R) 38-7-3 to 45-11-7, Interior(1) 45-11-7 to 52-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 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) 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) 12=285, 2=270.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

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October 4, 2021

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW
2945168	C2	Hip	1	1	440163980	DEVELOPMENT SERVICES
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),	Valley Center, KS - 67147,
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8.430 s Aug 16 2021 MiTek Industries, Inc Thu Sep 30 14:24:21 2021 Page 2

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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.

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

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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 #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C3	Hip	1	1	Job Reference (optional)	

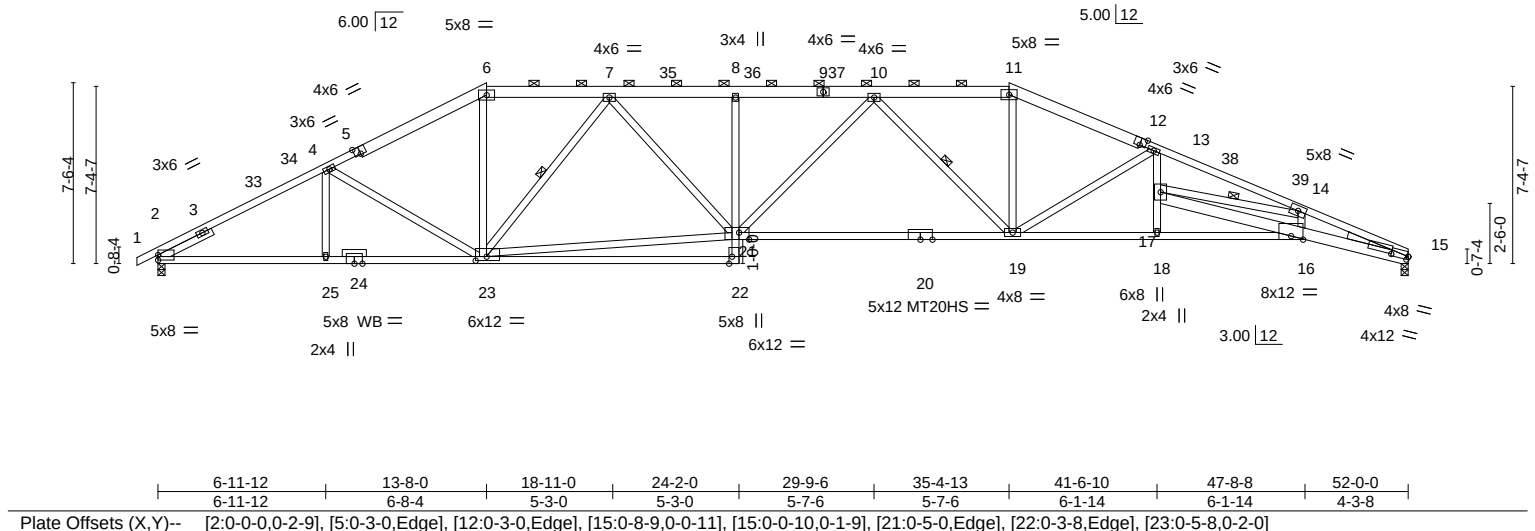
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:23 2021 Page 1

ID:3GmZIGChwWZGARvEUeXVyXyPZ34-8Xcf6HHUP3BRBhVNCu1wRH.2?nkrmMHVYmHmPYYPD

0-10-8 6-11-12 13-8-0 18-11-0 24-2-0 29-9-6 35-4-13 41-6-10 47-8-8 52-0-0
 0-10-8 6-11-12 6-8-4 5-3-0 5-3-0 5-7-6 5-7-6 6-1-14 6-1-14 4-3-8

Scale: 1/8"=1'



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)	-0.67	19-21	>937	240	197/144
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-1.52	19-21	>409	180	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.48	15	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 287 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
 1-5,12-15: 2x4 SPF 1650F 1.5E
 BOT CHORD 2x4 SP 2400F 2.0E *Except*
 8-22: 2x4 SPF No.2, 20-21: 2x4 SPF 1650F 1.5E
 15-17: 2x6 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 OTHERS 2x4 SPF No.2
 WEDGE
 Right: 2x4 SP No.3
 SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-0-8 max.): 6-11.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-23, 10-19, 14-17

REACTIONS.

(size) 2=0-3-8, 15=0-3-8
 Max Horz 2=118(LC 16)
 Max Uplift 2=317(LC 12), 15=323(LC 13)
 Max Grav 2=2402(LC 1), 15=2339(LC 1)

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

TOP CHORD 2-4=-4164/545, 4-6=-3833/520, 6-7=-3376/501, 7-8=-5038/747, 8-10=-5086/748,
 10-11=-4415/623, 11-13=-4859/654, 13-14=-5954/798, 14-15=-8657/1166
 BOT CHORD 2-25=-503/3625, 23-25=-503/3625, 22-23=-39/343, 8-21=-398/135, 19-21=-582/4956,
 18-19=-612/5416, 16-18=-618/5426, 16-17=-430/2664, 15-16=-1042/7993
 WEBS 4-23=-291/172, 6-23=-119/1172, 7-23=-1606/303, 21-23=-447/3966, 7-21=-169/1191,
 10-21=-110/364, 10-19=-977/196, 11-19=-131/1377, 13-19=-1136/276, 13-17=-52/634,
 14-16=-11/647, 14-17=-2516/416

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) gable end zone and C-C Exterior(2E) -0-10-8 to 4-3-14, Interior(1) 4-3-14 to 13-8-0, Exterior(2R) 13-8-0 to 21-0-4, Interior(1) 21-0-4 to 35-4-13, Exterior(2R) 35-4-13 to 42-9-1, Interior(1) 42-9-1 to 52-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 20 = 16%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 15=323.

Continued on page 2



October 4, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW
2945168	C3	Hip	1	1	Job Reference (optional)	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI

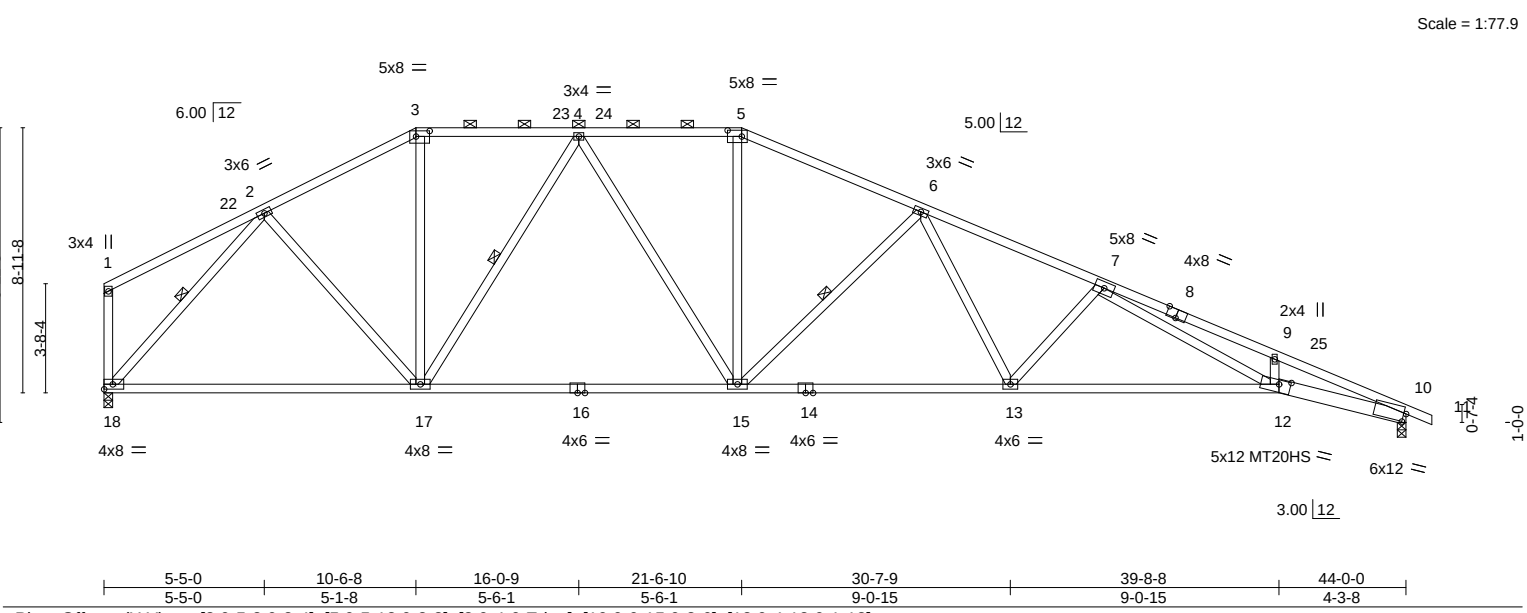
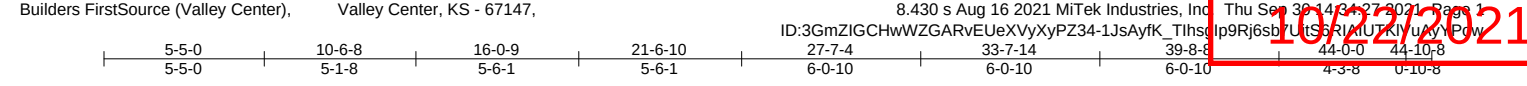
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10/22/2021

- NOTES-**
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	C6	Piggyback Base	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:27 2021 Page 1						10/22/2021
ID:3GmZIGChwWZGARvEueXVyXyPZ34-1JsAyk_Tihslp9Rj6sb7Utt5SR1MUTK1uAYV Pow						
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 0.85	Vert(LL)	-0.48 12-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.96 12-13	>550	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.28 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-8,8-11: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-12 max.): 3-5.
BOT CHORD 2x4 SP 2400F 2.0E *Except* 10-12: 2x6 SPF 2100F 1.8E, 14-16: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-15, 4-17, 2-18

REACTIONS.	(size) 10=0-3-8, 18=0-3-8 Max Horz 18=-229(LC 8) Max Uplift 10=-314(LC 13), 18=-208(LC 12) Max Grav 10=2035(LC 1), 18=1973(LC 1)
-------------------	---

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2155/353, 3-4=-1859/346, 4-5=-2522/450, 5-6=-2807/454, 6-7=-4193/644, 7-9=-7163/1114, 9-10=-7261/1027
BOT CHORD	17-18=-125/1511, 15-17=-117/2316, 13-15=-304/3330, 12-13=-540/4392, 10-12=-898/6696
WEBS	2-17=-56/618, 3-17=-87/579, 5-15=-50/661, 6-15=-1152/294, 6-13=-140/1031, 7-13=-920/264, 7-12=-419/2564, 4-17=-950/222, 4-15=-112/462, 2-18=-2216/310

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-6-8, Exterior(2R) 10-6-8 to 16-9-3, Interior(1) 16-9-3 to 21-6-10, Exterior(2R) 21-6-10 to 27-7-4, Interior(1) 27-7-4 to 44-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) The Fabrication Tolerance at joint 12 = 4%
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=314, 18=208.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4,2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	C7	Piggyback Base	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI

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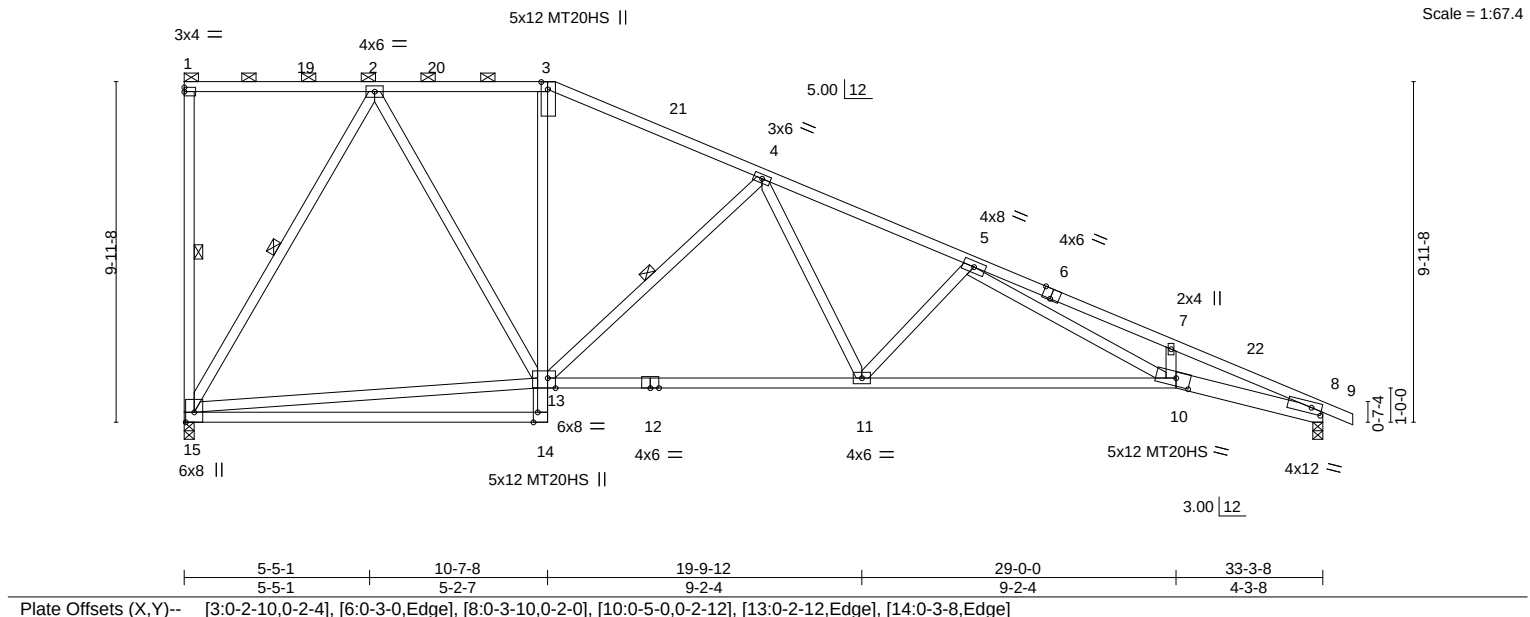
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10/22/2021

5-5-1 10-10-2 16-10-12 22-11-6 29-0-0 33-3-8 34-2-0

5-5-1 5-5-1 6-0-10 6-0-10 6-0-10 4-3-8 0-10-8

Scale = 1:67.4



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	0.92	Vert(LL)	-0.40	10-11	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15		BC	0.77	Vert(CT)	-0.82	10-11	>483	180	MT20HS	148/108	
BCLL	0.0	Rep Stress Incr YES		WB	0.80	Horz(CT)	0.23	8	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 170 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*
8-10: 2x6 SPF 2100F 1.8E, 10-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-2 max.): 1-3.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 1-15, 4-13, 2-15

REACTIONS.

(size) 15=0-3-8, 8=0-3-8
Max Horz 15=-382(LC 10)
Max Uplift 15=-228(LC 8), 8=-234(LC 13)
Max Grav 15=1491(LC 1), 8=1554(LC 1)

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

TOP CHORD 2-3=-1231/265, 3-4=-1424/262, 4-5=-2740/397, 5-7=-5336/808, 7-8=-5379/712

BOT CHORD 11-13=-92/2045, 10-11=-306/3006, 8-10=-608/4960

WEBS 2-13=-142/1000, 4-13=-1118/286, 4-11=-114/941, 5-11=-829/248, 5-10=-360/2202, 2-15=-1472/264, 13-15=0/590

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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 10-7-8, Exterior(2R) 10-7-8 to 13-11-7, Interior(1) 13-11-7 to 34-2-0 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.
- 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) 8 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) 15=228, 8=234.
- This truss 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.



October 4, 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

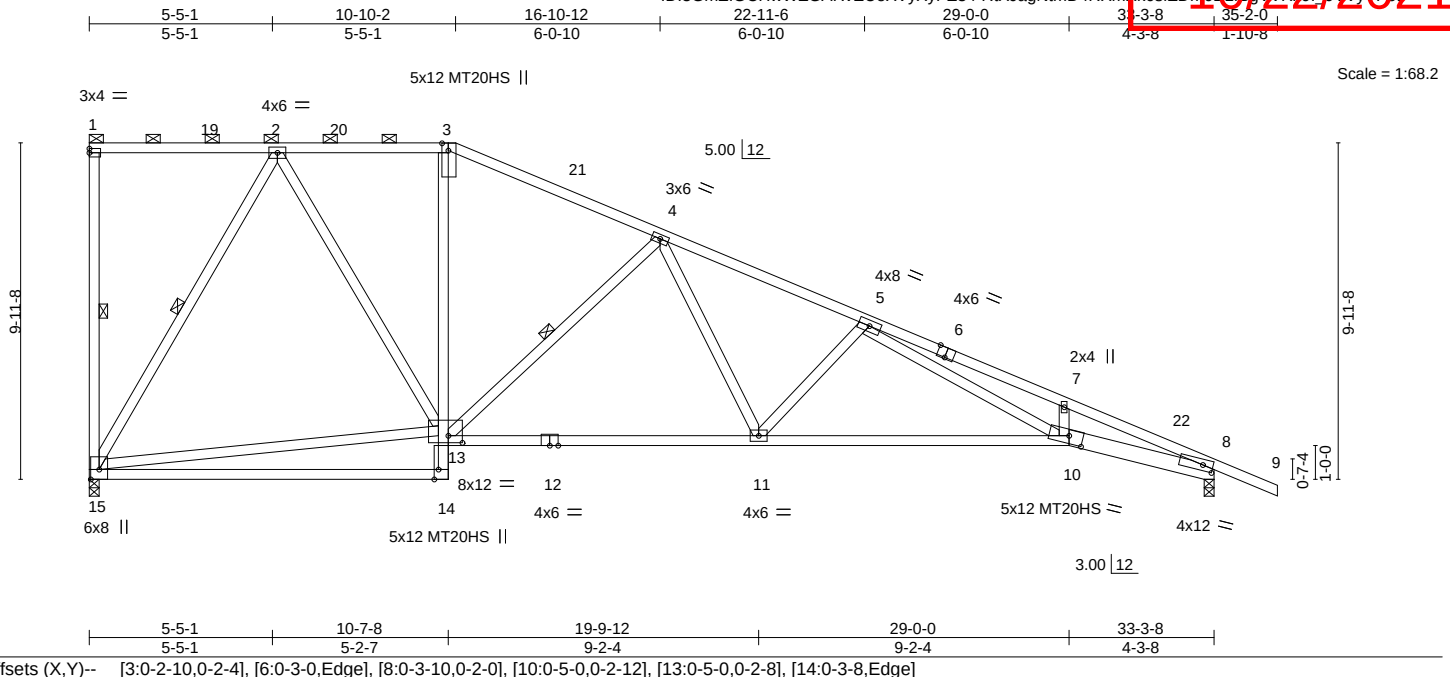
Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C7A	Piggyback Base	2	1	Job Reference (optional)	

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

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ID:3GmZIGCHwWZGARvEueXVyXyPZ34-RtXJagNtmD4RXmXk6sfZDn6ELf3jVWRy0L9VWY(Pol

10/22/2021



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)	-0.39 10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.82 10-11	>486	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.23 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 171 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
8-10: 2x6 SPF 2100F 1.8E, 10-12: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and
2-0-0 oc purlins (5-0-3 max.): 1-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-15, 4-13, 2-15

REACTIONS.

(size) 15=0-3-8, 8=0-3-8
Max Horz 15=-389(LC 10)
Max Uplift 15=-228(LC 8), 8=-254(LC 13)
Max Grav 15=1488(LC 1), 8=1627(LC 1)

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

TOP CHORD 2-3=-1228/260, 3-4=-1421/256, 4-5=-2728/391, 5-7=-5252/770, 7-8=-5297/675
BOT CHORD 11-13=-73/2037, 10-11=-283/2987, 8-10=-558/4877
WEBS 13-15=0/588, 2-13=-140/997, 4-13=-1112/283, 4-11=-109/933, 5-11=-819/244,
5-10=-330/2133, 2-15=-1469/262

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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 10-7-8, Exterior(2R) 10-7-8 to 13-11-7, Interior(1) 13-11-7 to 35-2-0 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.
- 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) 8 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) 15=228, 8=254.
- This truss 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C8	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Aug 16 2021 MiTek Industries, Inc.
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ID:3GmZIGCHwWZGARvEueXvYxYPZ34-v45hn0NVXWCi9vwgZAomzeMdsWtZyf4OyidjXyPos
33-3-8 34-2-0 33-3-8 34-2-0

10/22/2021

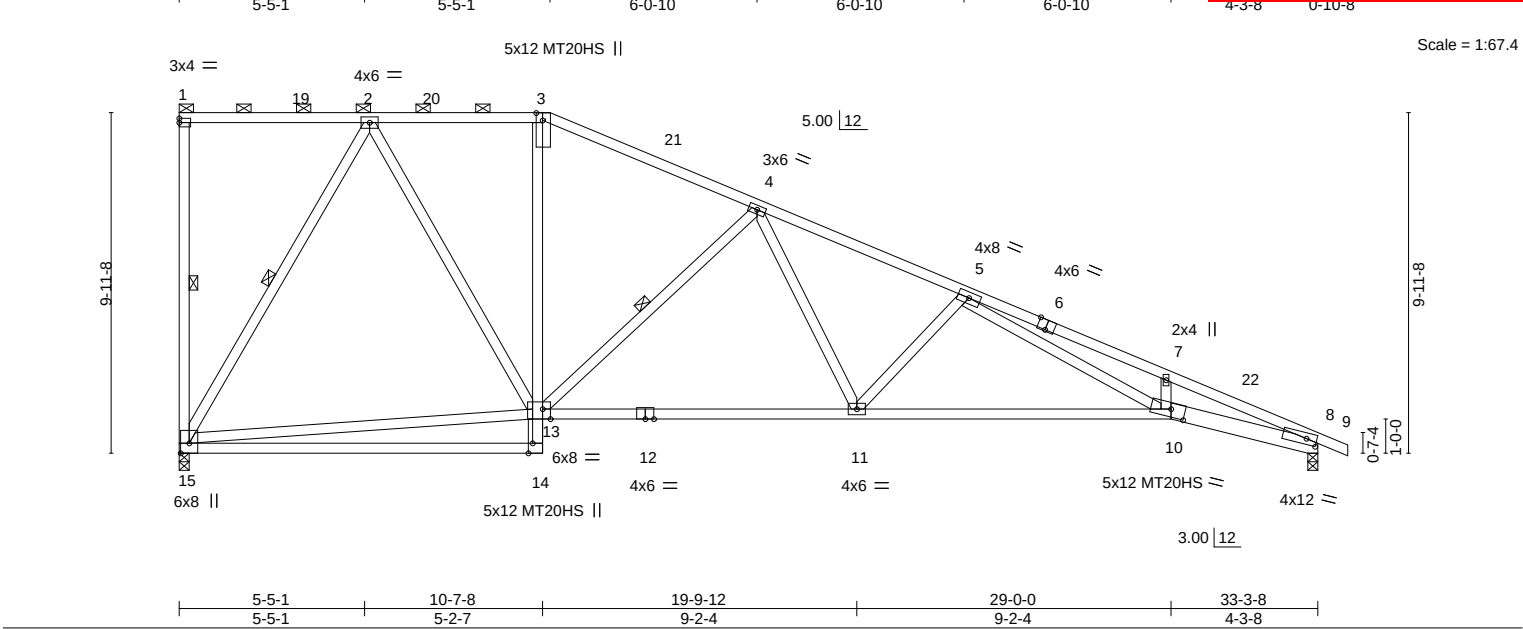


Plate Offsets (X,Y)-- [3:0-2-10,0-2-4], [6:0-3-0,Edge], [8:0-3-10,0-2-0], [10:0-5-0,0-2-12], [13:0-2-12,Edge], [14:0-3-8,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.40	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.82	10-11	>483	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.23	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 170 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-9: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-2 max.): 1-3.
BOT CHORD 2x4 SPF No.2 *Except* 8-10: 2x6 SPF 2100F 1.8E, 10-12: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 1-15, 2-15, 4-13

REACTIONS.	(size) 15=0-3-8, 8=0-3-8 Max Horz 15=-382(LC 10) Max Uplift 15=-228(LC 8), 8=-234(LC 13) Max Grav 15=1491(LC 1), 8=1554(LC 1)
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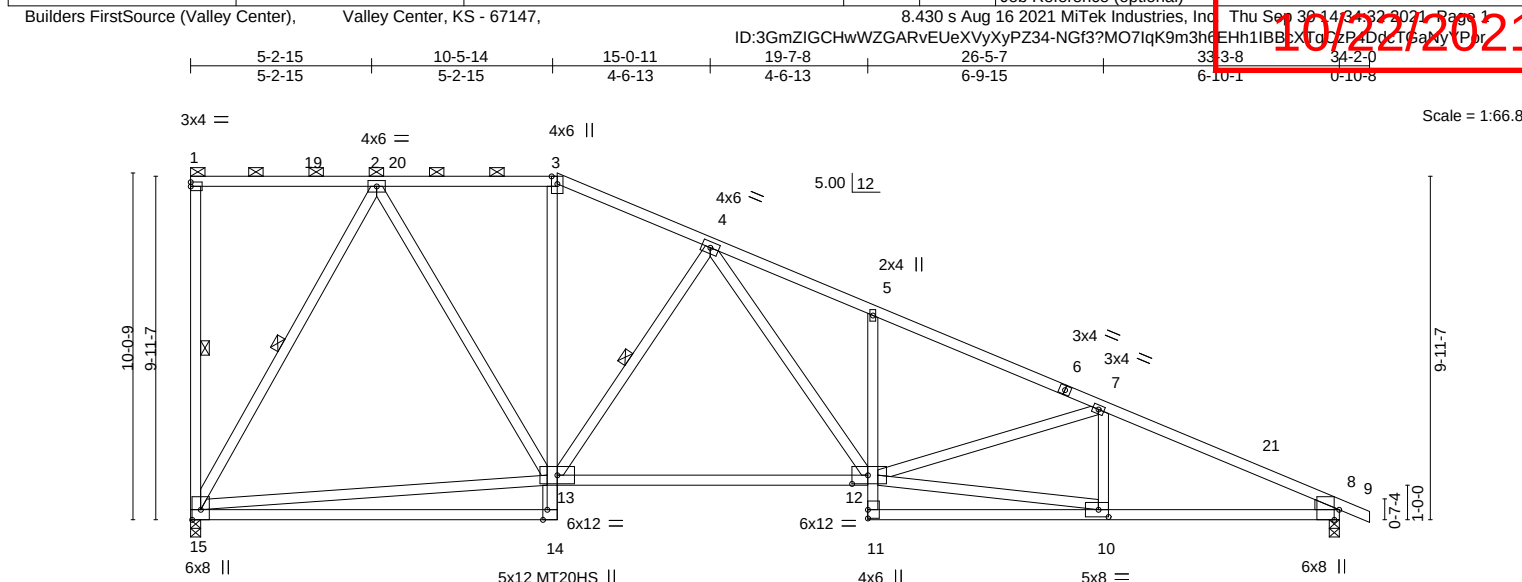
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1231/265, 3-4=-1424/262, 4-5=-2740/397, 5-7=-5336/808, 7-8=-5379/712
BOT CHORD 11-13=-92/2045, 10-11=-306/3006, 8-10=-608/4960
WEBS 13-15=0/590, 2-13=-142/1000, 2-15=-1472/264, 4-13=-1118/286, 4-11=-114/941, 5-11=-829/248, 5-10=-360/2202

- 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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 10-7-8, Exterior(2R) 10-7-8 to 13-11-7, Interior(1) 13-11-7 to 34-2-0 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.
 - 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) 8 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) 15=228, 8=234.
 - This truss 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.



October 4,2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	C9	Half Hip	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI



	5-2-15	10-5-14	15-0-11	19-7-8	26-5-7	33-3-8	34-2-0
	5-2-15	5-2-15	4-6-13	4-6-13	6-9-15	6-10-1	0-10-8
Plate Offsets (X,Y)--	[8:0-3-8,Edge], [10:0-3-8,0-2-8], [12:0-5-8,0-3-0], [14:0-3-8,Edge]						

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.35 14-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.71 14-15 >558 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.12 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 179 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-2 max.): 1-3.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 1-15, 4-13, 2-15
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS.	(size) 15=0-3-8, 8=0-3-8
	Max Horz 15=-381(LC 10)
	Max Uplift 15=-228(LC 8), 8=-234(LC 13)
	Max Grav 15=1491(LC 1), 8=1554(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1235/254, 3-4=-1394/255, 4-5=-2744/464, 5-7=-2753/382, 7-8=-2925/425
BOT CHORD	3-13=-8/252, 12-13=-45/1770, 5-12=-426/175, 8-10=-313/2614
WEBS	13-15=0/624, 2-13=-140/1014, 4-13=-964/267, 4-12=-239/1238, 10-12=-285/2516, 7-10=-298/101, 2-15=-1475/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 10-7-8, Exterior(2R) 10-7-8 to 15-0-11, Interior(1) 15-0-11 to 34-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=228, 8=234.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C10	Half Hip	1	1	Job Reference (optional)	10/22/2021

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

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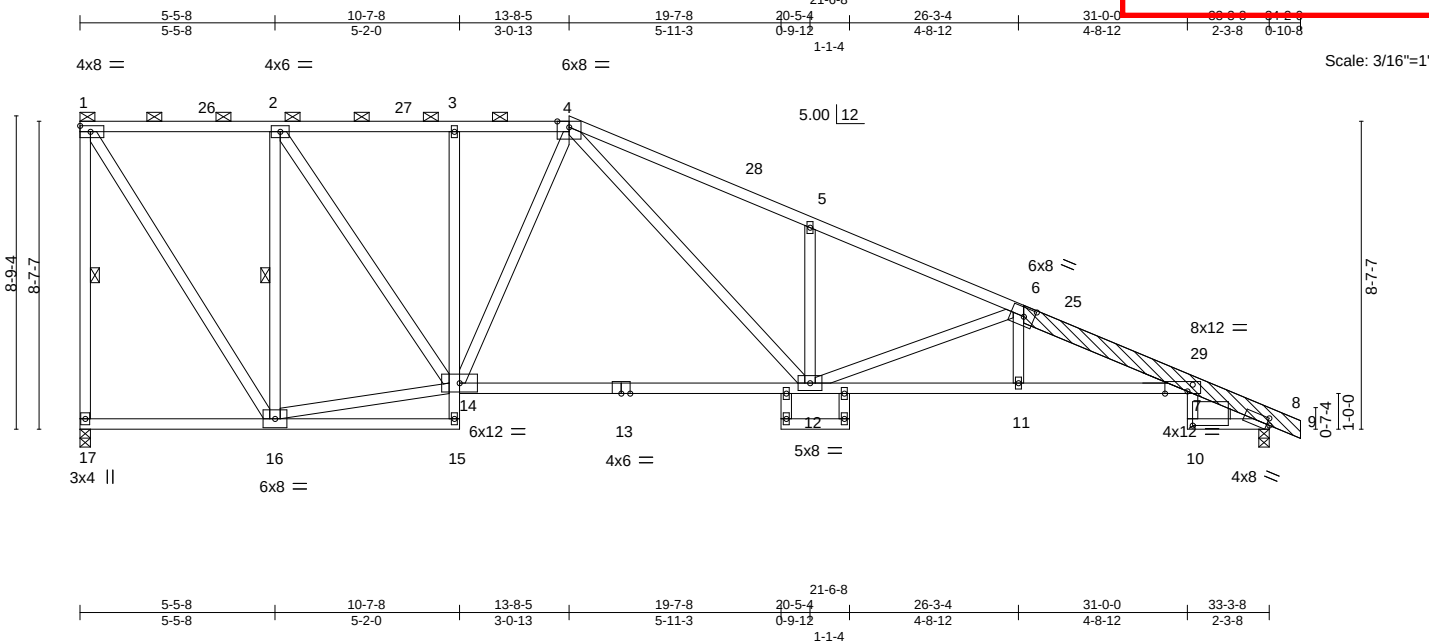


Plate Offsets (X,Y)-- [6:0-3-8,0-3-0], [7:0-7-9,Edge], [7:0-0-0,1-1-12], [8:0-0-15,0-2-3]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.32 7-11 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.67 12-14 >598	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.27 8 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 199 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
7-13: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
OTHERS 2x6 SPF 2100F 1.8E
LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-6-13 max.): 1-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-17, 2-16

REACTIONS.

(size) 17=0-3-8, 8=0-3-8
Max Horz 17=-330(LC 10)
Max Uplift 17=-238(LC 8), 8=-223(LC 13)
Max Grav 17=1491(LC 1), 8=1554(LC 1)

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

TOP CHORD 1-17=-1440/249, 1-2=-814/209, 2-3=-1465/261, 3-4=-1472/260, 4-5=-2895/471,
5-6=-2892/362, 6-7=-4049/526, 7-8=-684/120
BOT CHORD 16-17=-202/317, 3-14=-301/101, 12-14=-38/1621, 11-12=-417/3878, 7-11=-420/3871
WEBS 1-16=-235/1511, 2-16=-1341/234, 14-16=0/876, 2-14=-104/1128, 4-14=-379/167,
5-12=-432/207, 6-12=-1363/276, 4-12=-299/1447

NOTES-

- Attached 8-7-1 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-7 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-9-7 from end at joint 6, nail 2 row(s) at 3" o.c. for 4-7-15.
- 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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 13-8-5, Exterior(2R) 13-8-5 to 18-4-13, Interior(1) 18-4-13 to 34-2-0 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.
- All plates are 2x4 MT20 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) 17=238, 8=223.
- This truss 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C11	Half Hip	1	1	Job Reference (optional)	

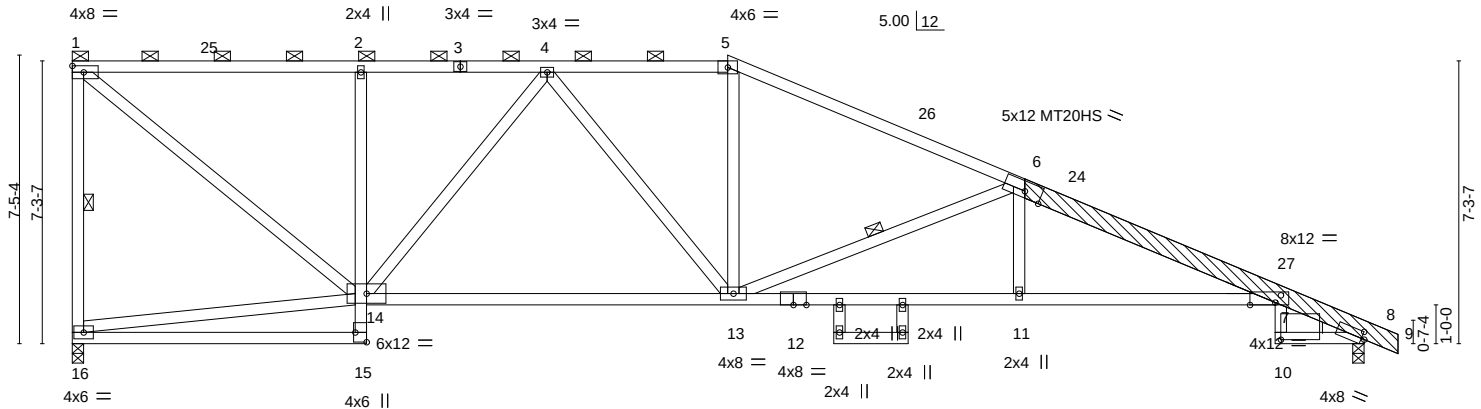
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:13 2021 Page 1

ID:3GmZIGCHwWZGARvEueXVyXyPZ34-Rc0t0s9Cm?xr_8kSdnra1AvK5pkx0gQOFdM0QVYP08

7-7-0	12-2-14	16-10-11	19-7-8	21-6-8	24-4-13	26-3-4	31-0-0	33-3-8	34-2-0
7-7-0	4-7-14	4-7-14	2-8-13	1-11-0	2-10-5	1-10-7	4-8-12	2-3-8	0-10-8

Scale = 1:59.4



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LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
12-14,7-12: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x6 SPF 2100F 1.8E
LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-15 max.): 1-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-16, 6-13

REACTIONS.

(size) 16=0-3-8, 8=0-3-8
Max Horz 16=-278(LC 10)
Max Uplift 16=-248(LC 8), 8=-205(LC 13)
Max Grav 16=1491(LC 1), 8=1554(LC 1)

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

TOP CHORD 1-16=-1423/249, 1-2=-1480/270, 2-4=-1474/263, 4-5=-2091/313, 5-6=-2384/315,
6-7=-3658/423, 7-8=-684/112
BOT CHORD 2-14=-484/178, 13-14=-138/1904, 11-13=-300/3459, 7-11=-303/3453
WEBS 1-14=-266/1878, 4-14=-688/139, 4-13=-85/296, 5-13=-8/489, 6-13=-1460/328,
6-11=0/266

NOTES-

- Attached 10-7-5 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-7 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 5-9-12 from end at joint 6, nail 2 row(s) at 4" o.c. for 4-7-15.
- 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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 16-10-11, Exterior(2R) 16-10-11 to 21-7-3, Interior(1) 21-7-3 to 34-2-0 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=248, 8=205.
- This truss 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	C12	Half Hip	1	1	Job Reference (optional)	

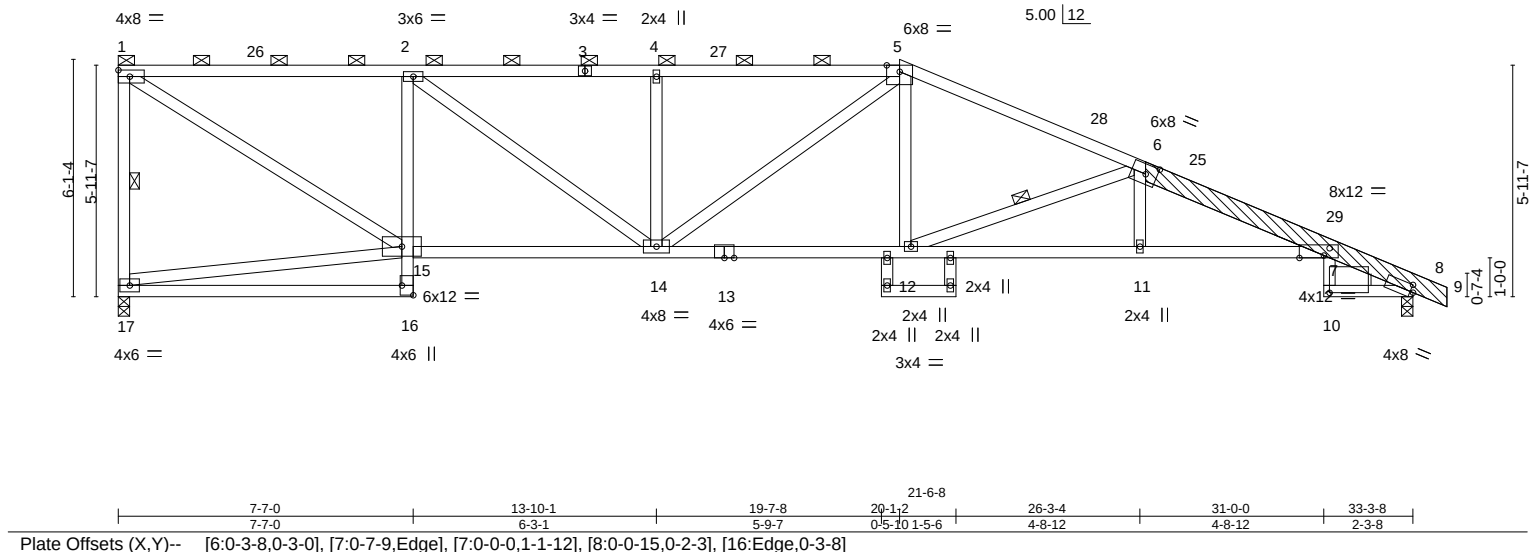
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:15 2021 Page 1

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10/22/2021

Scale = 1:59.2



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 0.71	Vert(LL) -0.32 7-11 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.59 7-11 >678 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.29 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 177 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
7-13: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
OTHERS 2x6 SPF 2100F 1.8E
LBR SCAB 6-9 2x6 SPF 2100F 1.8E one side
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-11-15 max.): 1-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-17, 6-12

REACTIONS.

(size) 17=0-3-8, 8=0-3-8
Max Horz 17=-225(LC 10)
Max Uplift 17=-255(LC 8), 8=-182(LC 13)
Max Grav 17=1491(LC 1), 8=1554(LC 1)

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

TOP CHORD 1-17=-1413/265, 1-2=-1895/347, 2-4=-2629/437, 4-5=-2632/439, 5-6=-2857/401,
6-7=-4087/472, 7-8=-684/109
BOT CHORD 2-15=-1052/266, 14-15=-184/1893, 12-14=-232/2546, 11-12=-378/3918, 7-11=-381/3910
WEBS 1-15=-344/2201, 2-14=-134/911, 4-14=-478/163, 5-14=-60/331, 5-12=-40/592,
6-12=-1434/282

NOTES-

- Attached 8-7-1 scab 6 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-7 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-9-7 from end at joint 6, nail 2 row(s) at 3" o.c. for 4-7-15.
- 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) gable end zone and C-C Exterior(2E) 0-1-12 to 3-5-11, Interior(1) 3-5-11 to 20-1-2, Exterior(2R) 20-1-2 to 24-9-10, Interior(1) 24-9-10 to 34-2-0 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) 17=255, 8=182.
- This truss 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

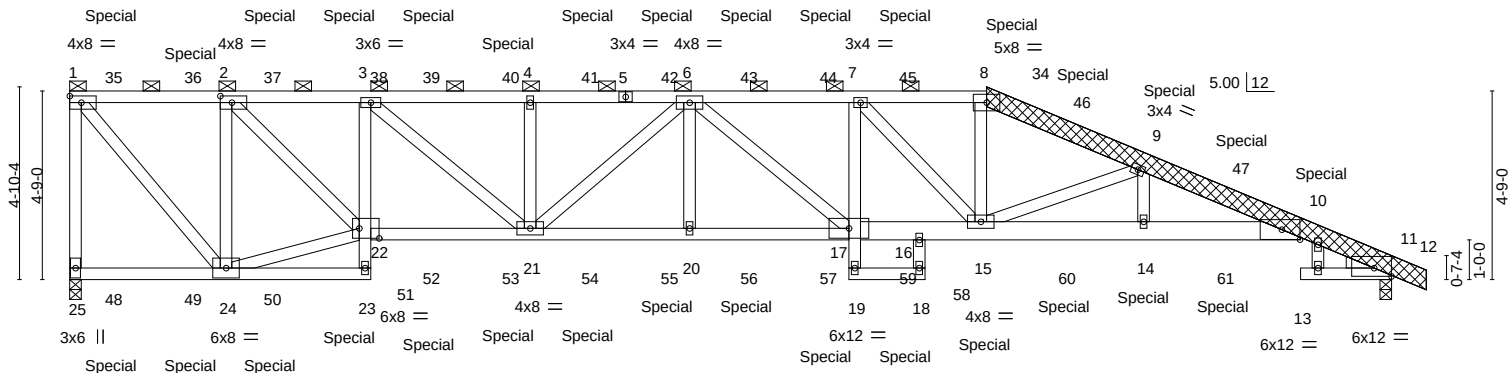
Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #	6/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICE LEE'S SUMMIT, MISSOURI
2945168	C13	HALF HIP GIRDER	1	2	Job Reference (optional)		

Builders First Source, Valley Center, KS 67147

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3-11-4	7-7-0	11-7-3	15-7-5	19-7-8	21-6-8	23-1-2	27-0-9	31-0-0	33-3-8
3-11-4	3-7-12	4-0-3	4-0-3	4-0-3	1-11-0	1-6-10	3-11-7	3-11-7	2-3-8

Scale = 1:58.0



3-11-4	7-7-0	11-7-3	15-7-5	19-7-8	21-6-8	23-1-2	27-0-9	31-0-0	33-3-8
3-11-4	3-7-12	4-0-3	4-0-3	4-0-3	1-11-0	1-6-10	3-11-7	3-11-7	2-3-8

Plate Offsets (X,Y)-- [2:0-3-8,0-2-0], [10:0-5-8,0-3-0], [11:0-5-4,0-2-8], [22:0-6-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.32	17-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.59	17-20	>673		
BCLL 0.0	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.29	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 468 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SPF No.2 *Except*	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
8-12: 2x6 SP 2400F 2.0E	end verticals, and 2-0-0 oc purlins (4-7-1 max.): 1-8.
BOT CHORD	BOT CHORD
2x4 SPF No.2 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
10-17: 2x6 SP 2100F 1.8E, : 2x6 SPF No.2	8-8-3 oc bracing: 20-21
WEBS	8-8-1 oc bracing: 17-20.
2x4 SPF No.2	
OTHERS	
2x6 SP 2400F 2.0E	
LBR SCAB	
8-12 2x6 SP 2400F 2.0E both sides	
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS. (lb/size) 25=2907/0-3-8, 11=2878/0-3-8
Max Horz 25=-179(LC 6)
Max Uplift 25=-1008(LC 4), 11=-786(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-25=-2812/1004, 1-35=-2228/807, 35-36=-2228/807, 2-36=-2228/807, 2-37=-4783/1655,
37-38=-4783/1655, 3-38=-4783/1655, 3-39=-6312/2153, 39-40=-6312/2153,
4-40=-6312/2153, 4-41=-6312/2153, 5-41=-6312/2153, 5-42=-6312/2153, 6-42=-6312/2153,
6-43=-6747/2217, 43-44=-6747/2217, 7-44=-6747/2217, 7-45=-6168/1980,
8-45=-6168/1980, 8-34=-6553/2092, 34-46=-6581/2083, 9-46=-6635/2082,
9-47=-8980/2656, 10-47=-9063/2661, 10-11=-1032/324
BOT CHORD
3-22=-1660/623, 22-52=-1548/4843, 52-53=-1548/4842, 21-53=-1547/4841,
21-54=-2207/6943, 54-55=-2207/6943, 20-55=-2207/6943, 20-56=-2207/6943,
56-57=-2207/6943, 17-57=-2207/6943, 17-59=-2063/6658, 16-59=-2063/6658,
15-16=-2084/6736, 15-60=-2454/8622, 14-60=-2454/8622, 14-61=-2454/8622,
10-61=-2454/8622
WEBS
1-24=-1176/3401, 2-24=-3018/1094, 22-24=-652/2132, 2-22=-1187/3576, 3-21=-648/1911,
4-21=-431/195, 6-21=-832/287, 6-20=-59/294, 6-17=-254/156, 8-15=-593/2098,
9-15=-2762/724, 9-14=-191/908, 7-15=-829/381

- 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 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 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.
 - Attached 12-2-4 scab 8 to 12, both face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.148"x3") nails spaced 9" o.c. except : starting at 5-5-9 from end at joint 8, nail 3 row(s) at 4" o.c. for 6-7-0.
 - 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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate



October 4, 2021

grip DOL=1.60
Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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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 #	6/MO
2945168	C13	HALF HIP GIRDER	1	2	Job Reference (optional)	

Builders First Source, Valley Center, KS 67147

ID:3GmZIGChWZGARvEUeXVyXyPZ34-g6dqqF4QTTrg4ny3ztQec3xSmrDHxUkBrMMWvRTH

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

NOTES-

- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1008 lb uplift at joint 25 and 786 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down and 115 lb up at 1-0-12, 115 lb down and 117 lb up at 3-0-12, 115 lb down and 117 lb up at 5-0-12, 115 lb down and 117 lb up at 7-0-12, 74 lb down and 82 lb up at 9-0-12, 74 lb down and 78 lb up at 11-0-12, 74 lb down and 82 lb up at 13-0-12, 74 lb down and 82 lb up at 15-0-12, 74 lb down and 82 lb up at 17-0-12, 74 lb down and 82 lb up at 19-0-12, 115 lb down and 117 lb up at 21-0-12, 146 lb down and 130 lb up at 23-1-2, 22 lb up at 25-0-12, 16 lb down and 39 lb up at 27-0-12, and 144 lb down and 77 lb up at 29-0-12, and 96 lb down and 68 lb up at 31-0-12 on top chord, and 67 lb down and 21 lb up at 1-0-12, 65 lb down and 22 lb up at 3-0-12, 65 lb down and 22 lb up at 5-0-12, 65 lb down and 22 lb up at 7-0-12, 91 lb down and 57 lb up at 9-0-12, 91 lb down and 57 lb up at 11-0-12, 91 lb down and 57 lb up at 13-0-12, 91 lb down and 57 lb up at 15-0-12, 91 lb down and 57 lb up at 17-0-12, 91 lb down and 57 lb up at 19-0-12, 65 lb down and 22 lb up at 21-0-12, 43 lb down at 23-0-12, 200 lb down and 84 lb up at 25-0-12, 157 lb down and 49 lb up at 27-0-12, and 43 lb down at 29-0-12, and 98 lb down at 31-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-8=-70, 8-12=-70, 23-25=-20, 17-22=-20, 18-19=-20, 16-28=-20, 13-31=-20

Concentrated Loads (lb)

Vert: 8=-146(F) 10=-96(F) 15=-22(F) 9=-16(F) 14=-157(F) 28=-85(F) 35=-118(F) 36=-115(F) 37=-115(F) 38=-115(F) 39=-74(F) 40=-74(F) 41=-74(F) 42=-74(F) 43=-74(F) 44=-74(F) 45=-115(F) 47=-144(F) 48=-59(F) 49=-58(F) 50=-58(F) 51=-58(F) 52=-91(F) 53=-91(F) 54=-91(F) 55=-91(F) 56=-91(F) 57=-91(F) 58=-58(F) 60=-200(F) 61=-22(F)

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	CJ1	Jack-Open Girder	2	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

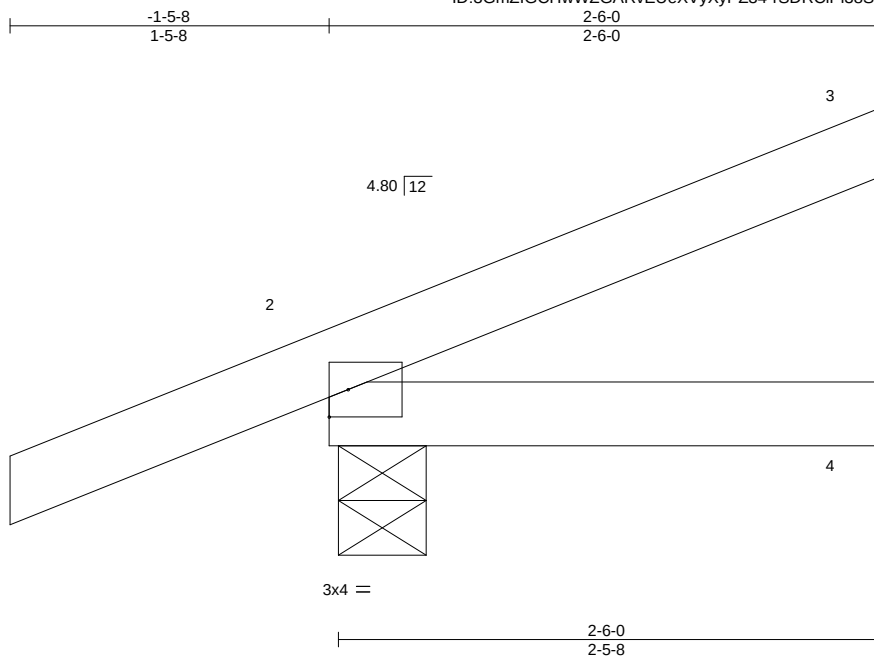
RELEASE FOR CONSTRUCTION

148163993

10/22/2021

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:33 2021 Page 1

ID:3GmZIGCHwWZGARvEueXvYxYPZ34-rSDRCiPI38S00bGlo_CG_OlufstNfiNReCo6xyT Pn



Scale = 1:10.5

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 0.16	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	NO	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 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-13, 4=Mechanical
Max Horz 2=54(LC 12)
Max Uplift 3=-28(LC 12), 2=-60(LC 8)
Max Grav 3=61(LC 1), 2=242(LC 1), 4=41(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

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

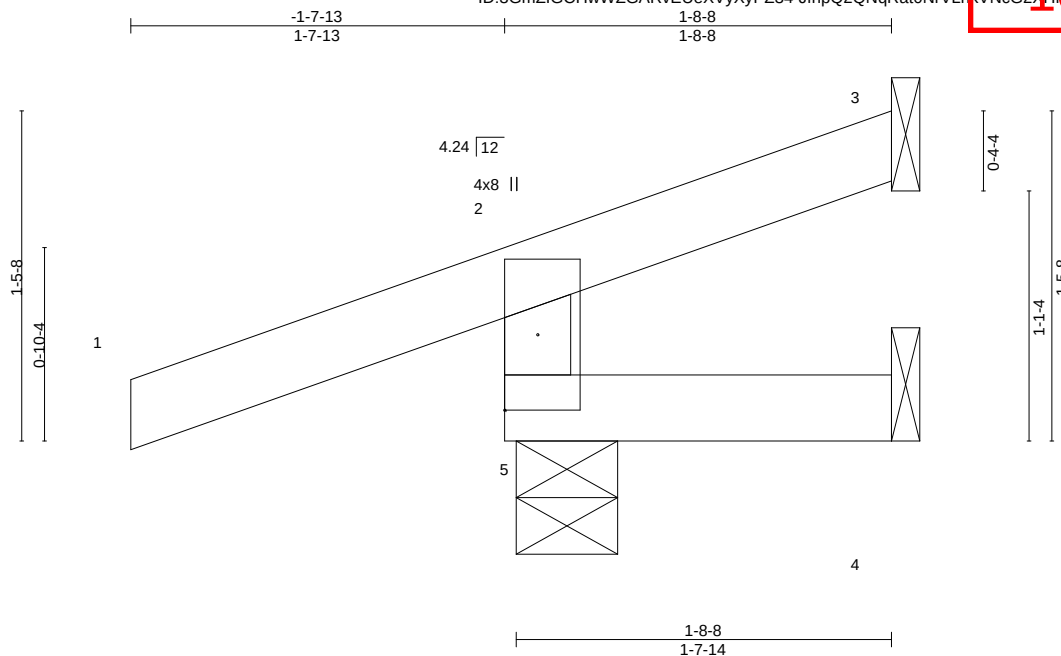
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	CJ2	Jack-Open Girder	1	1	Job Reference (optional)	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:24 2021 Page 1
ID:3GmZIGCHwWZGARvEUEXVyXyPZ34-JfnpQ2QNqRat0NrVLhkvNcG2XHiWRJW4wYmEG7YRop
10/22/2021



Scale = 1:10.2

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 0.25	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	5	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 7 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 1-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-6
Max Horz 5=42(LC 8)
Max Uplift 3=-11(LC 12), 4=-5(LC 1), 5=-102(LC 8)
Max Grav 3=4(LC 22), 4=23(LC 3), 5=268(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=102.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

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

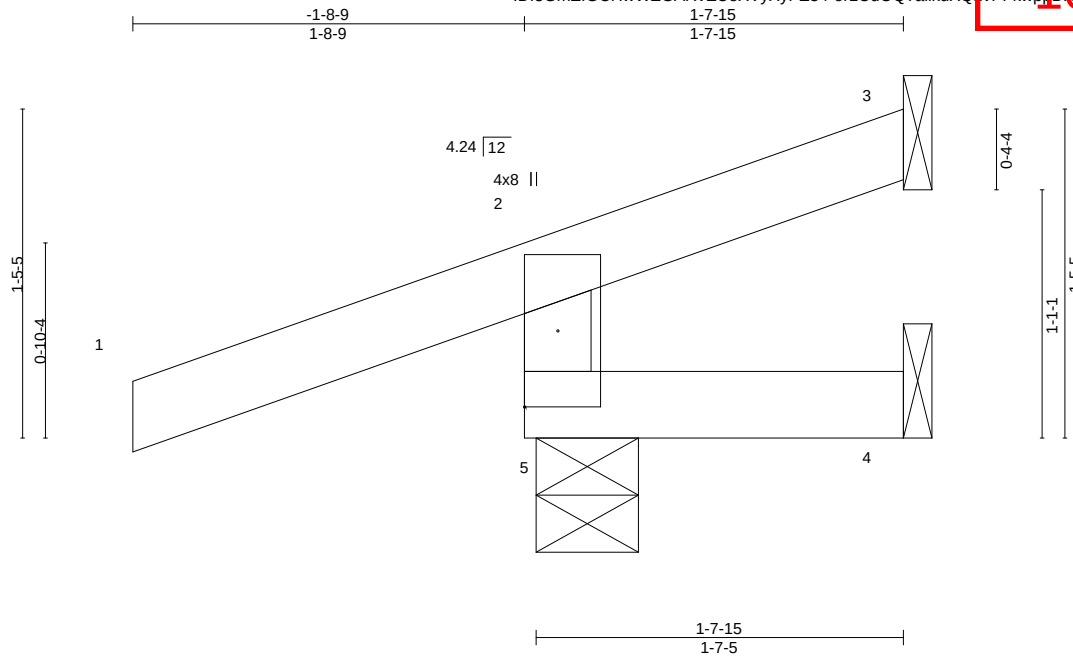
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	CJ3	Jack-Open	2	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:35 2021 Page 1		
					Job Reference (optional)		
					ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-orLCdOQ?alikdXQwvPFkwpDkg2nAX9g2ahwAYV P00		

RELEASE FOR CONSTRUCTION
 10/22/2021
 48163995
 LEE'S SUMMIT, MISSOURI



Scale = 1:10.1

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 0.23	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	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 1-7-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-6
 Max Horz 5=42(LC 8)
 Max Uplift 3=-9(LC 9), 4=-8(LC 1), 5=-108(LC 8)
 Max Grav 3=4(LC 8), 4=21(LC 3), 5=278(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; TC DL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=108.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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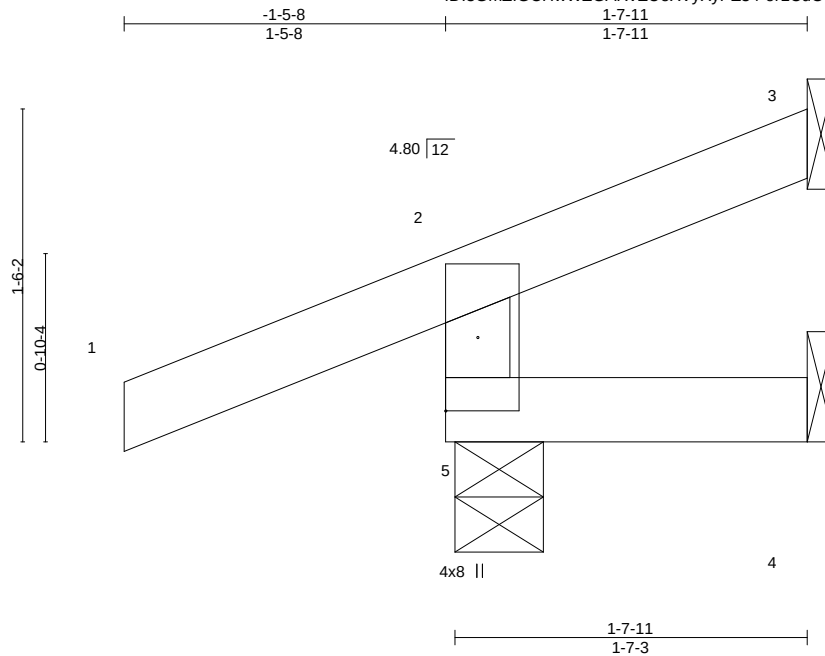


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	CJ4	Jack-Open Girder	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:35 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148163996

ID:3GmZIGCHwWZGARvEUEXVyXyPZ34-orLCdOQ?alidkXChvPFkwpD503_Ax9g2ahwAtyV_P00

10/22/2021



Scale = 1:10.5

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 0.20	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	5	>999	180		
BCLL 0.0	Rep Stress Incr	NO	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 1-7-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical
 Max Horz 5=39(LC 9)
 Max Uplift 5=66(LC 8), 3=-14(LC 12), 4=-2(LC 1)
 Max Grav 5=240(LC 1), 3=8(LC 1), 4=23(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 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.



October 4, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	D1	Hip Girder	1	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						Job Reference (optional)	
8.430 s Aug 16 2021 MiTek Industries, Inc.						Thu Sep 30 14:37:2021 Page 1	
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-kESy24SG6MyStqZ41HC?EuVjPjUg?epuzmMA0FbYfYrom						148163997	
						LEE'S SUMMIT, MISSOURI	

10/22/2021

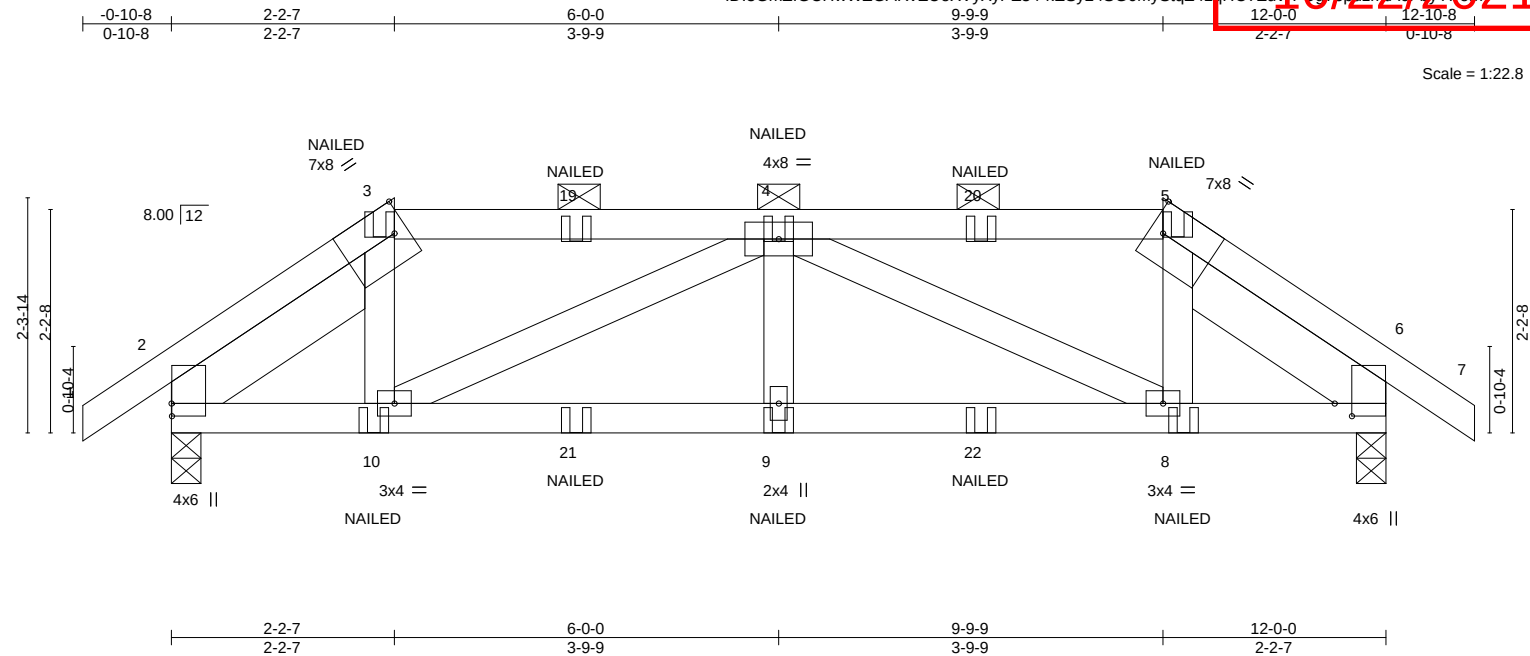


Plate Offsets (X,Y)--		[2:0-1-8,0-0-1], [3:0-1-9,Edge], [5:0-1-9,Edge], [6:0-1-8,0-2-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.40	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.03 9 >999 240
BCLL 0.0	Rep Stress Incr NO	WB 0.18	Vert(CT) -0.05 8-9 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 6 n/a n/a
		PLATES MT20	
		GRIP 197/144	
		Weight: 55 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-3-12 max.): 3-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SPF No.2 2-5-0, Right 2x6 SPF No.2 2-5-0	

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=39(LC 7)
	Max Uplift 2=-183(LC 8), 6=-183(LC 9)
	Max Grav 2=872(LC 1), 6=872(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1290/263, 3-4=-1112/249, 4-5=-1112/245, 5-6=-1290/258
BOT CHORD	2-10=-102/371, 9-10=-161/830, 8-9=-161/830, 6-8=-83/371
WEBS	3-10=-55/377, 4-10=-532/114, 4-8=-532/112, 5-8=-55/377

- 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) 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=183, 6=183.
 - This truss 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-5=-70, 5-7=-70, 11-15=-20
Concentrated Loads (lb)
Vert: 10=-142(B) 9=-36(B) 8=-142(B) 4=-50(B) 19=-50(B) 20=-50(B) 21=-36(B) 22=-36(B)



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	D2	Hip	1	1	Job Reference (optional)	148163998

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:38 2021 Page 1

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10/22/2021

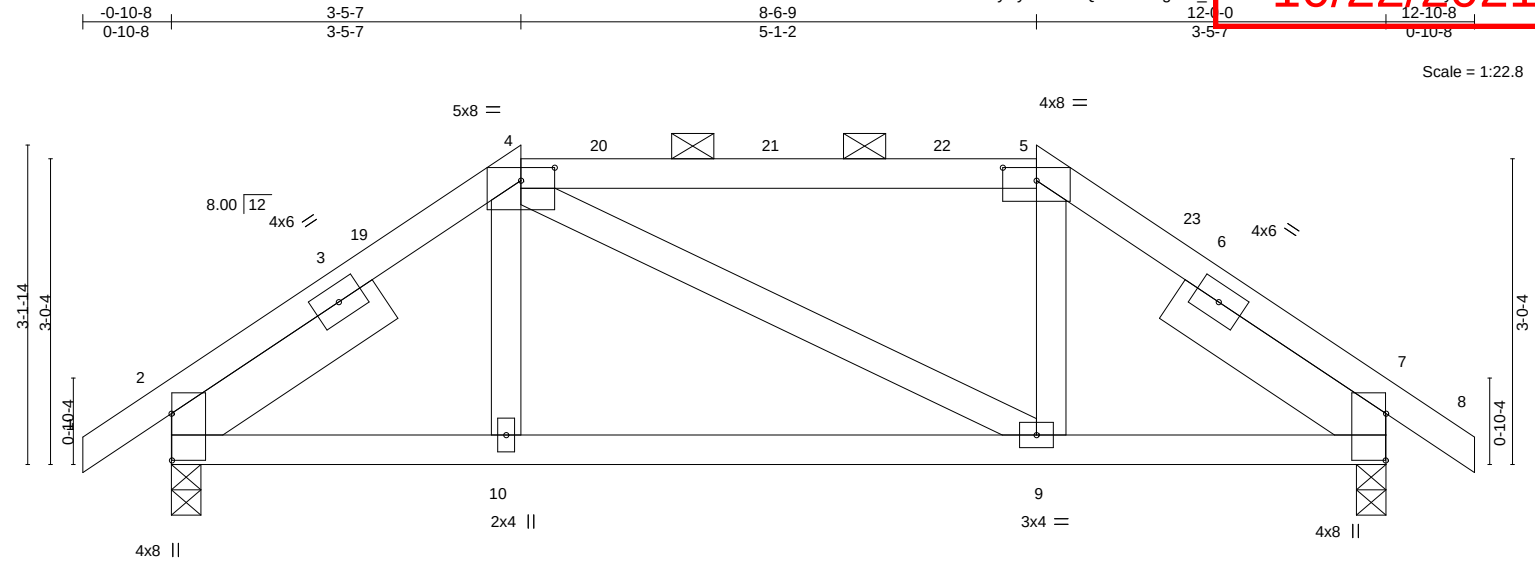


Plate Offsets (X,Y)--		[2:0-5-9,0-0-1], [4:0-4-0,0-1-9], [5:0-4-0,0-1-9], [7:0-5-9,0-0-1]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0	Rep Stress Incr	YES
BCDL 10.0	Code	IRC2018/TPI2014
	CSI.	
	TC	0.36
	BC	0.22
	WB	0.04
	Matrix-AS	
	DEFL.	
	Vert(LL)	-0.02 9-10 >999 240
	Vert(CT)	-0.06 9-10 >999 180
	Horz(CT)	0.01 7 n/a n/a
	PLATES	MT20
	GRIP	197/144
	Weight: 53 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=66(LC 11)
Max Uplift 2=-86(LC 12), 7=-86(LC 13)
Max Grav 2=601(LC 1), 7=601(LC 1)

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

TOP CHORD 2-4=-626/144, 4-5=-505/146, 5-7=-626/141
BOT CHORD 2-10=-64/509, 9-10=-66/505, 7-9=-44/509

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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-5-7, Exterior(2R) 3-5-7 to 7-8-6, Interior(1) 7-8-6 to 8-6-9, Exterior(2E) 8-6-9 to 12-10-8 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.
- 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, 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.
- 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.



October 4, 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	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	D3	Hip	1	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)		

RELEASE FOR CONSTRUCTION

10/22/2021

LEE'S SUMMIT, MISSOURI

10/22/2021

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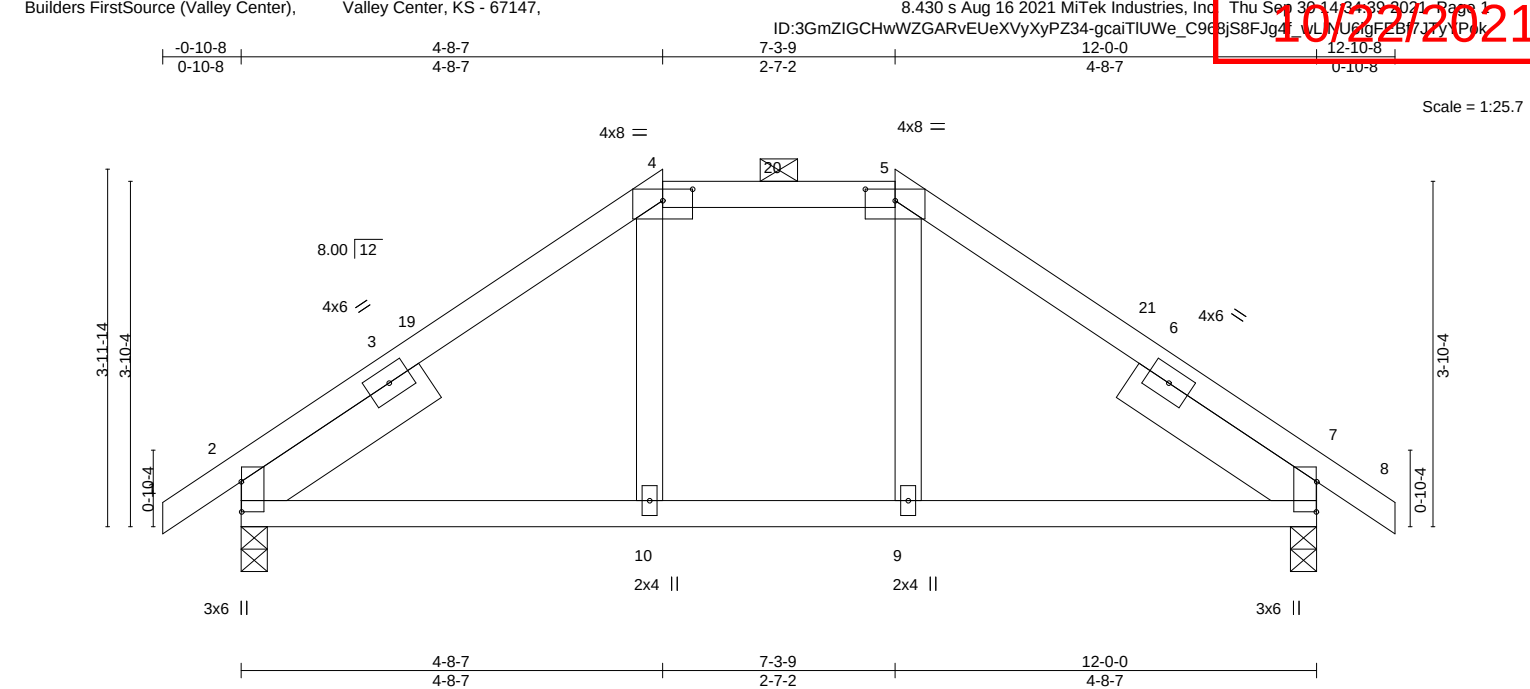


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [4:0-4-0,0-1-9], [5:0-4-0,0-1-9], [7:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18
TCDL 10.0	Lumber DOL	1.15	BC 0.21
BCLL 0.0	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.04 10-13	>999	240
Vert(CT)	-0.05 9-17	>999	180
Horz(CT)	0.02 7	n/a	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 49 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	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=86(LC 11)
	Max Uplift 2=83(LC 12), 7=83(LC 13)
	Max Grav 2=601(LC 1), 7=601(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-560/142, 4-5=-440/157, 5-7=-560/149
BOT CHORD	2-10=-24/443, 9-10=-25/440, 7-9=-25/443

- 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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-8-7, Exterior(2E) 4-8-7 to 7-3-9, Exterior(2R) 7-3-9 to 11-5-14, Interior(1) 11-5-14 to 12-10-8 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.
 - 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, 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.
 - 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.



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	D4	Common	1	1		148164990	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:10 2021 Page 1
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Scale = 1:30.9

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

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 0.31	Vert(LL)	-0.04 8-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.06 8-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.02 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 47 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 2-6-0, Right 2x6 SPF No.2 2-6-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
 Max Horz 2=107(LC 11)
 Max Uplift 2=-78(LC 12), 6=-78(LC 13)
 Max Grav 2=601(LC 1), 6=601(LC 1)

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

TOP CHORD 2-4=-499/155, 4-6=-499/155
 BOT CHORD 2-8=-22/405, 6-8=-22/405

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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 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 100 lb uplift at joint(s) 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.
- 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 4, 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	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	LG1	GABLE	1	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:12 2021 Page 1
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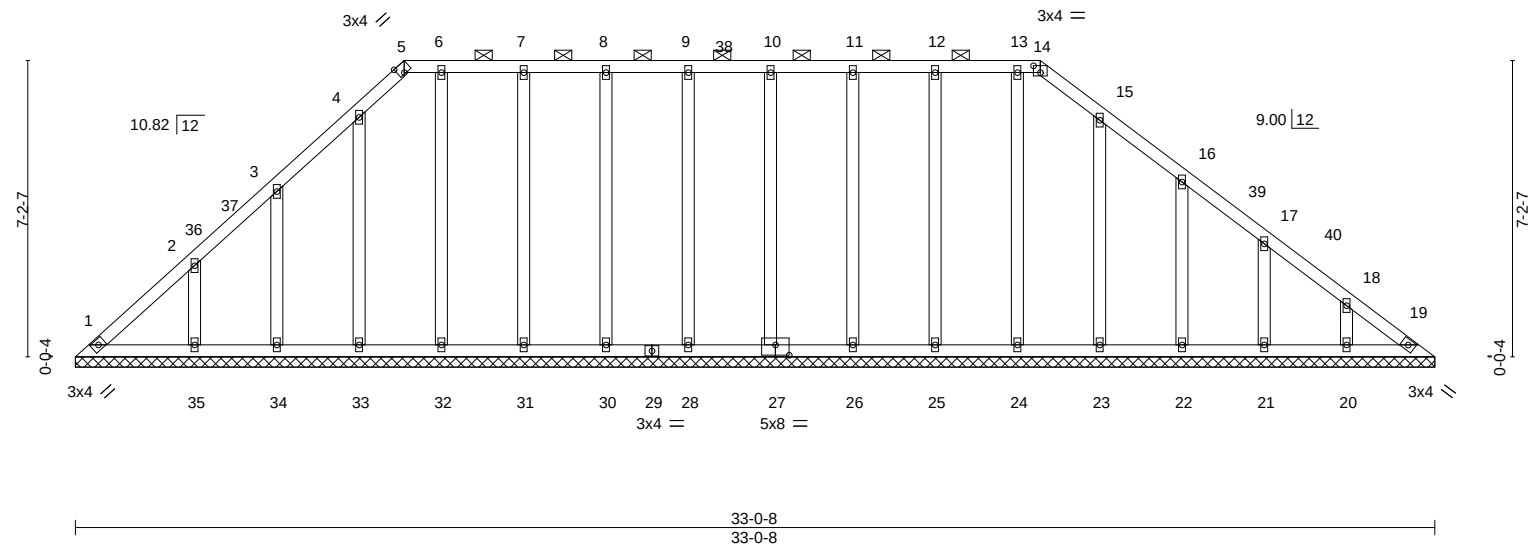


Plate Offsets (X,Y)--		[5:0-1-11,Edge], [14:0-2-0,0-2-0], [27:0-4-0,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.12	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 19 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 169 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 5-14.
OTHERS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 33-0-8.
(lb) - Max Horz 1=-162(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20
except 35=-120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20
except 35=254(LC 19)

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) gable end zone and C-C Exterior(2E) 0-4-9 to 3-8-2, Interior(1) 3-8-2 to 7-11-14, Exterior(2R) 7-11-14 to 12-10-12, Interior(1) 12-10-12 to 23-5-7, Exterior(2R) 23-5-7 to 28-1-7, Interior(1) 28-1-7 to 32-7-4 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.
- 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, 19, 27, 28, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20 except (jt=lb) 35=120.
- This truss 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.



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	LG2	GABLE	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:43:43 2021 Page 1

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10/22/2021

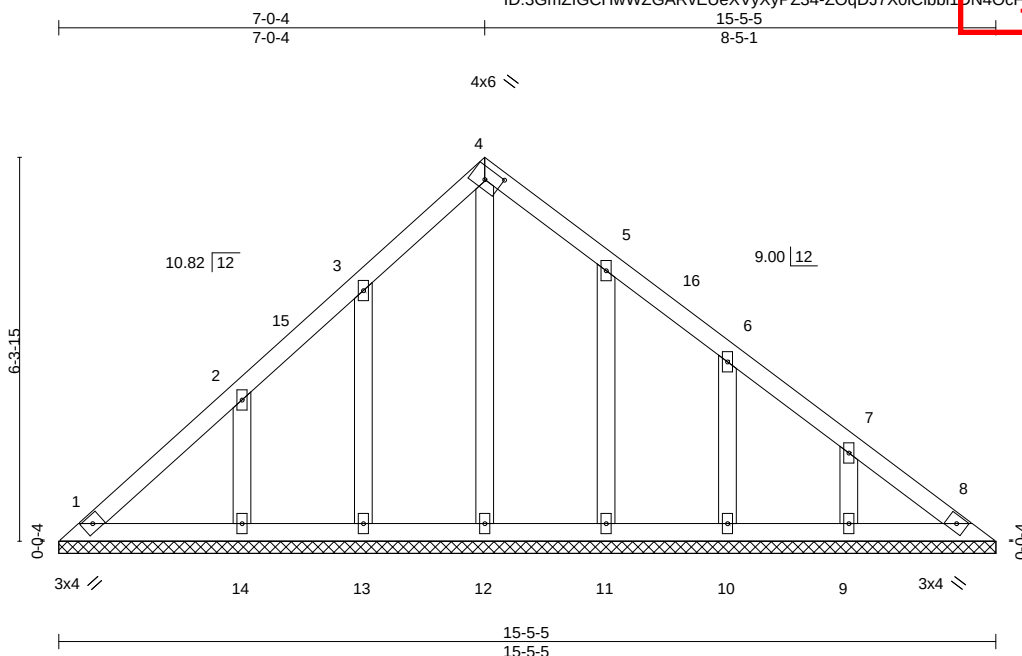


Plate Offsets (X,Y)-- [4:0-3-3,0-2-4]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00 8 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 62 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 15-5-5.
(lb) - Max Horz 1=-141(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 13, 11, 10, 9 except 14=-127(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 12, 13, 11, 10, 9 except 14=262(LC 19)

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) gable end zone and C-C Exterior(2E) 0-4-9 to 3-4-9, Interior(1) 3-4-9 to 7-0-4, Exterior(2R) 7-0-4 to 10-0-4, Interior(1) 10-0-4 to 15-0-1 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 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, 8, 13, 11, 10, 9 except (jt=lb) 14=127.
- This truss 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 4, 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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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	#56/MO
2945168	LG3	GABLE	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:44 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164993



Plate Offsets (X,Y)--		[4:0-3-3,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.13
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a 999
Vert(CT)	n/a	-	n/a 999
Horz(CT)	0.00	8	n/a n/a
PLATES	GRIP		
MT20	197/144		
Weight: 60 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.

All bearings 13-4-13.
 (lb) - Max Horz 15=-168(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 8, 12, 13, 11, 10, 9 except 14=-103(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 15, 8, 12, 13, 14, 11, 10, 9

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-11-1, Interior(1) 2-11-1 to 4-9-5, Exterior(2R) 4-9-5 to 7-9-5, Interior(1) 7-9-5 to 12-11-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8, 12, 13, 11, 10, 9 except (jt=lb) 14=103.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 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	#56/MO
2945168	LG4	GABLE	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:16 2021 Page 1						LEE'S SUMMIT, MISSOURI
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-zyVMx9Zv?75ASDlo2DxJ58m5290fF5Hms737YYPd						148164994

10/22/2021

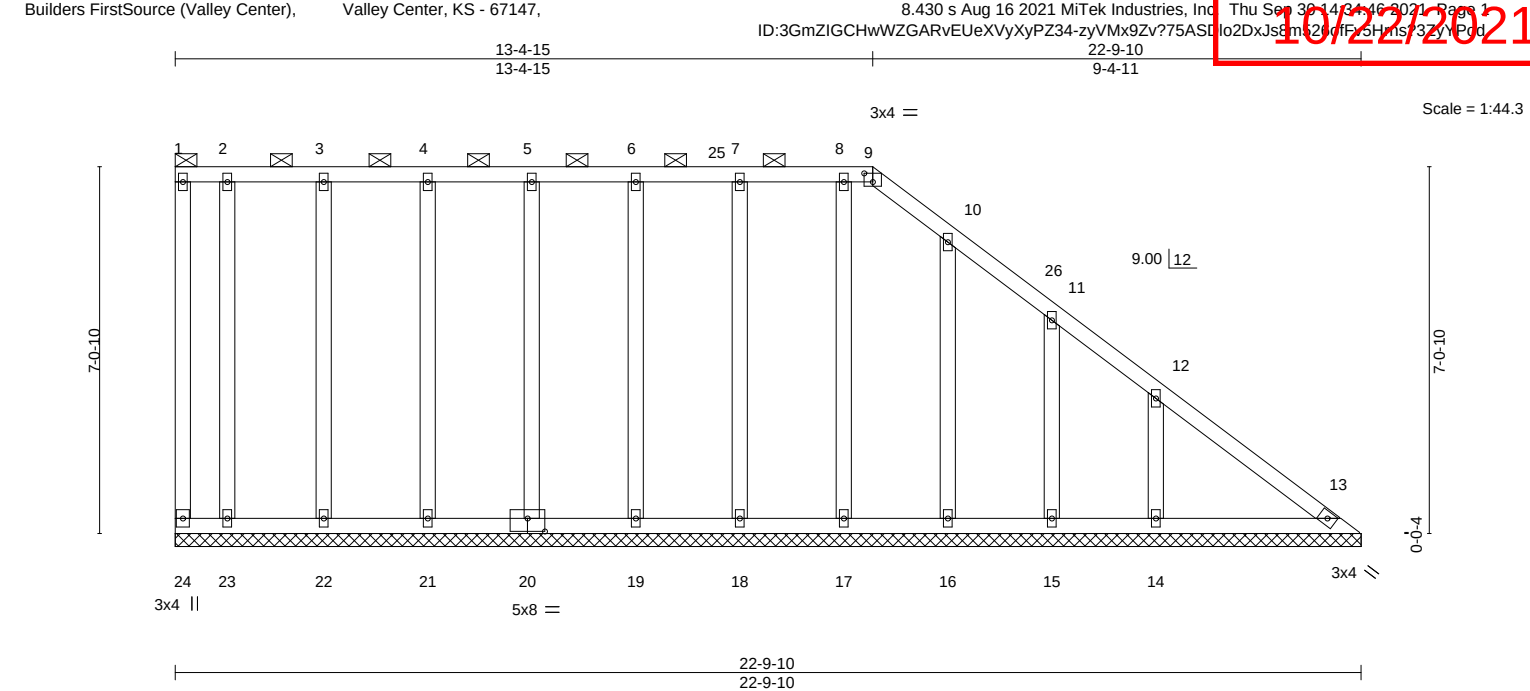


Plate Offsets (X,Y)-- [9:0-2-0,0-2-0], [20:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a - n/a	999	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a - n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01 13 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 126 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-9.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	All bearings 22-9-10.
(lb) - Max Horz	24=-242(LC 8)
Max Uplift	All uplift 100 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15 except 14=-131(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15 except 14=332(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	12-13=-300/248
BOT CHORD	23-24=-203/266, 22-23=-203/266, 21-22=-203/266, 20-21=-203/266, 19-20=-202/266, 18-19=-202/266, 17-18=-202/266, 16-17=-202/266, 15-16=-202/266, 14-15=-202/266, 13-14=-202/266

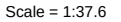
- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-10-4, Interior(1) 2-10-4 to 13-4-15, Exterior(2R) 13-4-15 to 16-4-15, Interior(1) 16-4-15 to 22-4-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15 except (jt=lb) 14=131.
 - This truss 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.



October 4, 2021

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

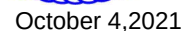
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:47 2021 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-331/348, 4-6=-331/348

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) gable end zone and C-C Corner(3) 0-3-0 to 3-3-0, Exterior(2) 3-3-0 to 4-1-10, Corner(3) 4-1-10 to 7-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 5 except (jt=lb) 1=109, 8=274, 6=274.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING – verify design parameters and NOTES ON THIS AND INCLUDED W/ITER REFERENCE TAGS MH-1413 (REV. 3/25/2020) BEFORE USE.
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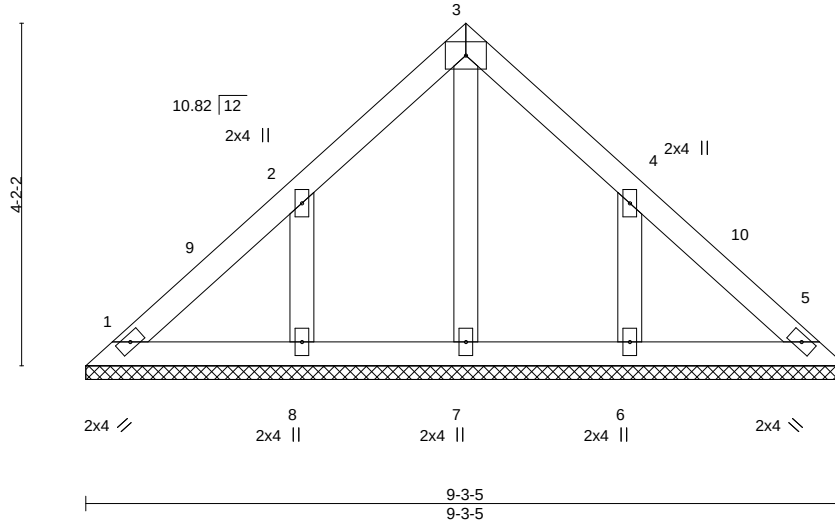


Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	LG6	GABLE	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:48 2021 Page 1						LEE'S SUMMIT, MISSOURI
ID:3GmZIGChwWZGARvEUEXVyXyPZ34-vLd6Mqa9XlLuhKvBAe_nZTouVjdraSL688yV Pub						10/22/2021

4-7-10 4-7-10 9-3-5 4-7-10

4x6 =

Scale = 1:28.1



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
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
									Weight: 32 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 9-3-5.
(lb) - Max Horz 1=-90(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-118(LC 12), 6=-118(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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) gable end zone and C-C Exterior(2E) 0-4-9 to 3-4-9, Interior(1) 3-4-9 to 4-7-10, Exterior(2R) 4-7-10 to 7-7-10, Interior(1) 7-7-10 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 except (jt=lb) 8=118, 6=118.
- This truss 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 4, 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	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	M1	Half Hip Girder	2	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						Job Reference (optional)	LEE'S SUMMIT, MISSOURI

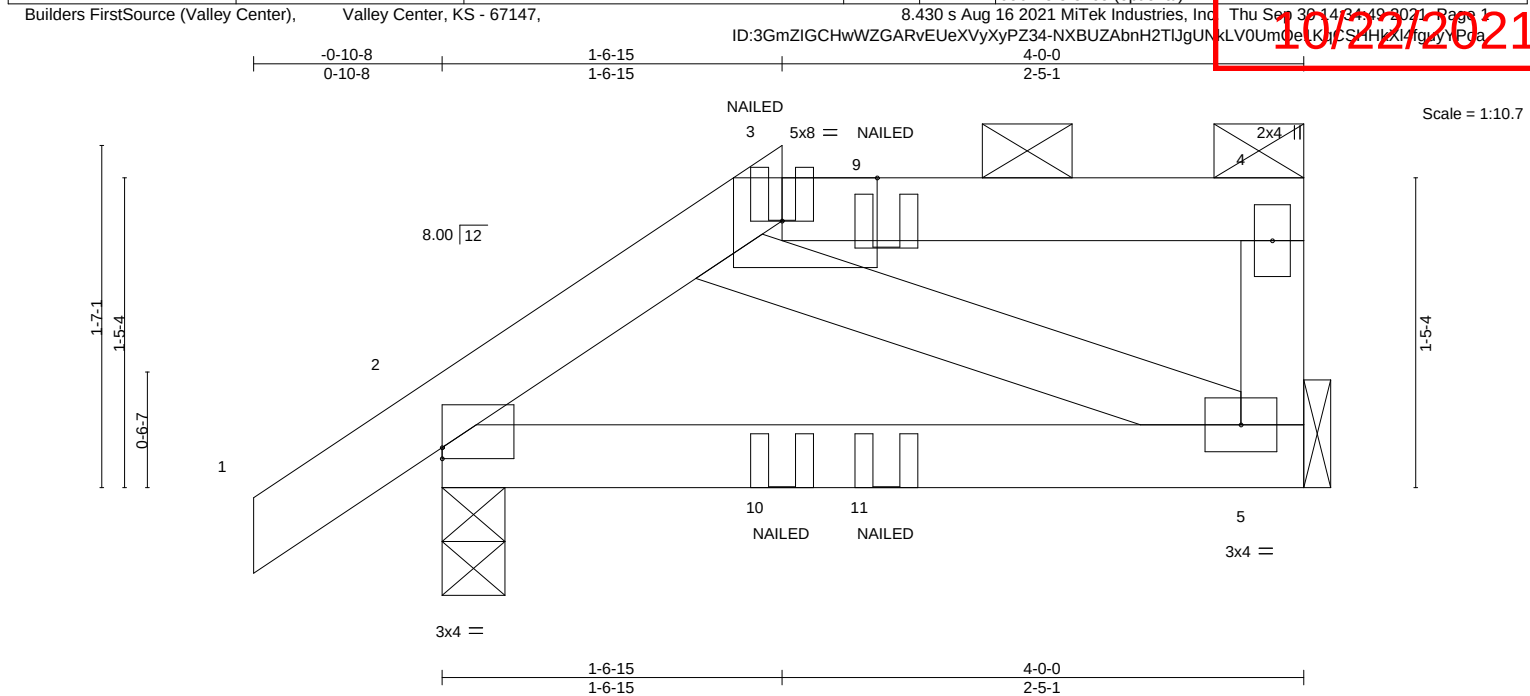


Plate Offsets (X,Y)-- [2:0-0-0,0-0-10], [3:0-5-5,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	5-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 5=Mechanical
	Max Horz 2=47(LC 7)
	Max Uplift 2=45(LC 8), 5=36(LC 5)
	Max Grav 2=246(LC 1), 5=172(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) 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) 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.
 - 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 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

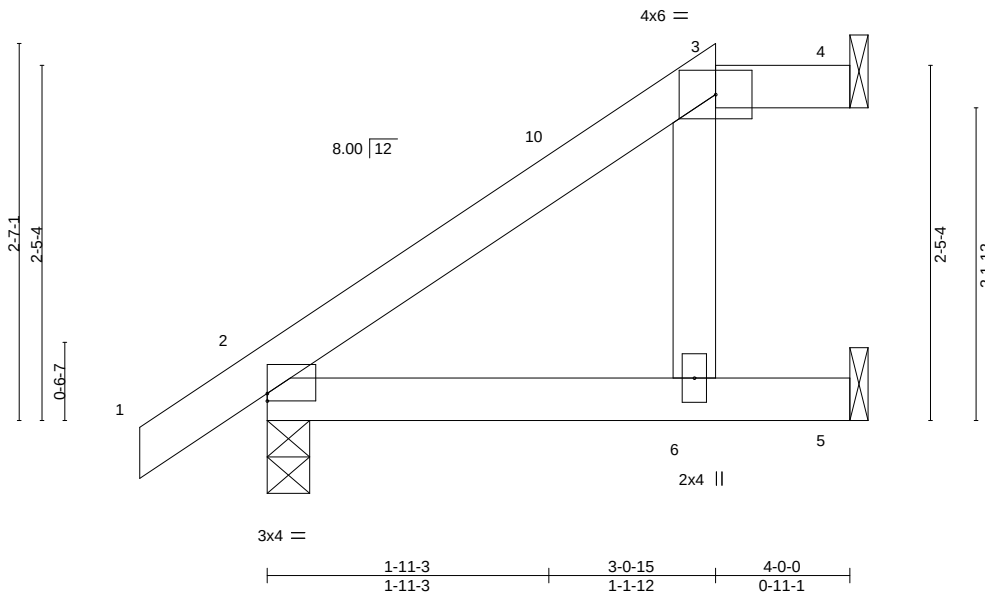
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-6=-20
Concentrated Loads (lb)
Vert: 9=-2(B) 10=2(B) 11=-11(B)



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M2	Jack-Open	2	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 00 2021 Page 1					148164998
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

0-10-8 3-0-15 4-0-0
0-10-8 3-0-15 0-11-1



Scale = 1:15.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-10]									
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	0.14	Vert(LL)	-0.02 6-9 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04 6-9 >999	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.03 4 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 13 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, except
2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 4=-11(LC 8), 2=-28(LC 12), 5=-35(LC 12)
Max Grav 4=30(LC 1), 2=245(LC 1), 5=140(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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-15, Exterior(2E) 3-0-15 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
- 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) 4, 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.
- 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M3	Jack-Open	5	1	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

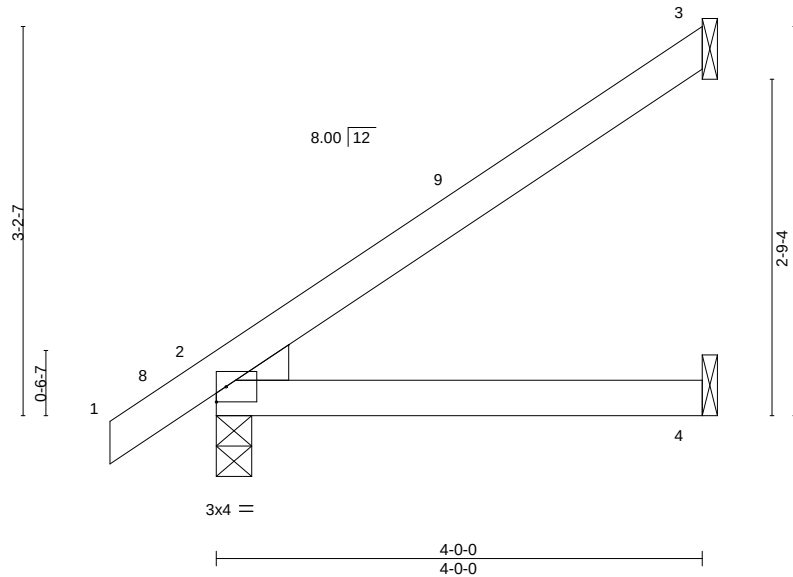
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:07 2021 Page 1

ID:3GmZIGChWZGARvEUeXVyXyPZ34-s?GILKp42akBTRm7pEDZ3hzaNg24NdyRcJyVPl

10/22/2021

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

Scale = 1:19.0



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)	-0.01	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-7	>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-AS						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

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=114(LC 12)

Max Uplift 3=69(LC 12), 2=14(LC 12)

Max Grav 3=124(LC 19), 2=245(LC 1), 4=73(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 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.
- 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.



October 4, 2021

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

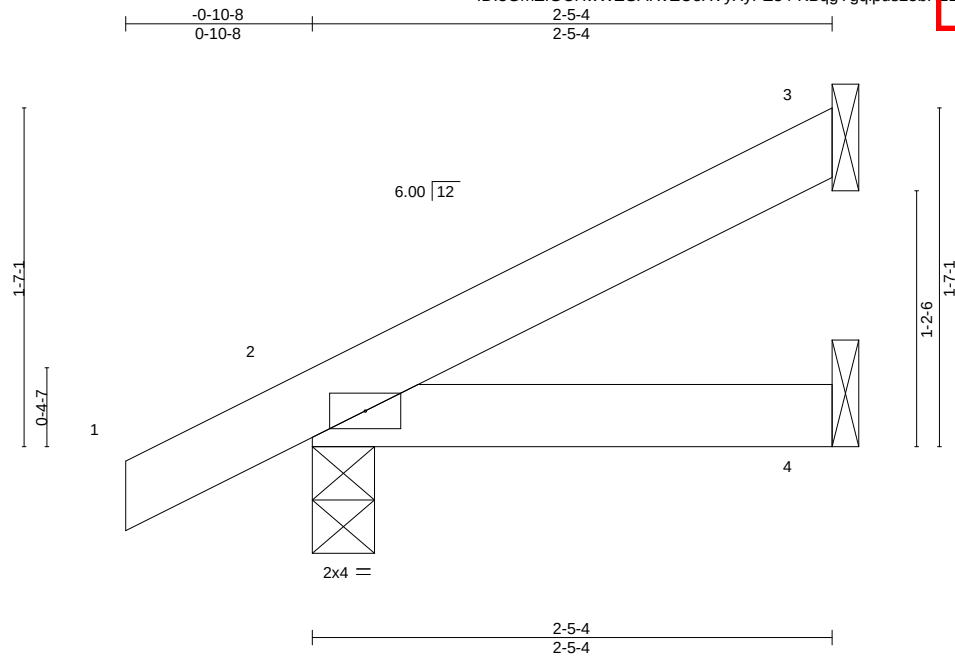
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M4	Jack-Open	2	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 08 2021 Page 1					LEE'S SUMMIT, MISSOURI
Job Reference (optional)					148164930

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10/22/2021



Scale = 1:10.8

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 0.06	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	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: 7 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 2-5-4 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=57(LC 12)
Max Uplift 3=-29(LC 12), 2=-28(LC 12)
Max Grav 3=65(LC 1), 2=179(LC 1), 4=42(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 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

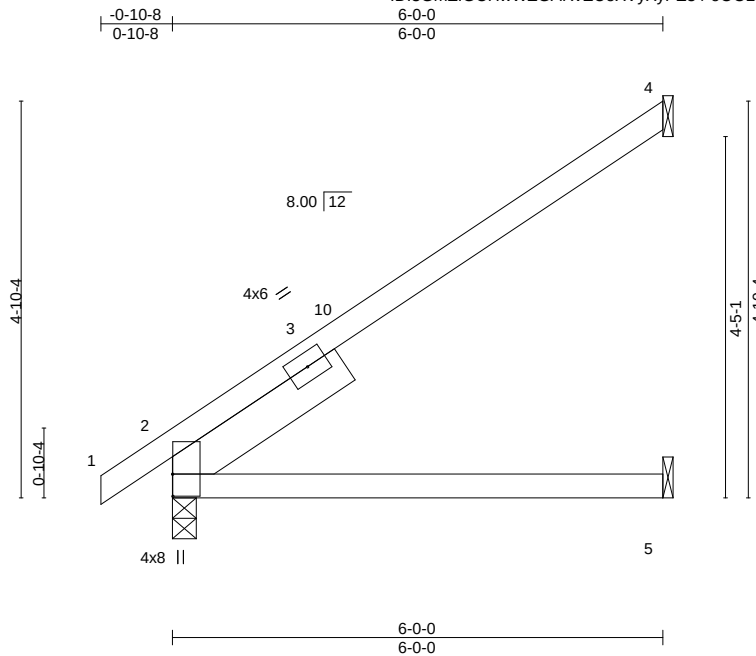
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M5	Jack-Open	13	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

ID:3GmZIGCHwWZGARvEueXVyXyPZ34-oOO2m0rKaC_vioDvYsil_0zEC08kag7swNk7YPG
 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:09 2021 Page 1
 10/22/2021



Scale = 1:28.2

Plate Offsets (X,Y)-- [2:0-3-4,0-0-1]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.08	5-8	>849	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	5-8	>551	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	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
 SLIDER Left 2x6 SPF No.2 2-6-0

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=163(LC 12)
 Max Uplift 4=-107(LC 12), 2=-4(LC 12), 5=-2(LC 12)
 Max Grav 4=192(LC 19), 2=333(LC 1), 5=105(LC 3)

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

TOP CHORD 2-4=-319/89

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5 except (jt=lb) 4=107.
- 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.



October 4, 2021

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

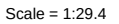
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

8.430 s Aug 16 2021 MiTek Industries, Inc

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-GayRzMsyLV6mKvbQSFNxrCm5Bn_1trppMWgGwAyYPoF



Weight: 27 lb FT = 20%

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

(size) 2=0-3-8, 6=Mechanical, 4=Mechanical
 Max Horz 2=158(LC 12)
 Max Uplift 2=-4(LC 12), 4=-120(LC 12)
 Max Grav 2=323(LC 1), 6=83(LC 3), 4=226(LC 19)

NOTES-

-

WARNING – verify design parameters and NOTES ON THIS AND INCLUDED WITHIN REFERENCE T-PLATE WITH F413 (REV. 3/25/2020) BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



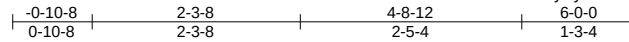
Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	M8	Jack-Open	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:11 2021 Page 1

ID:3GmZIGCHWZGARvEUEXyXyPZ34-kmWpBisb6pEdy3Ac0zuANPJG3bED8cDNzaAPcSdYp0E

10/22/2021



Scale = 1:25.4

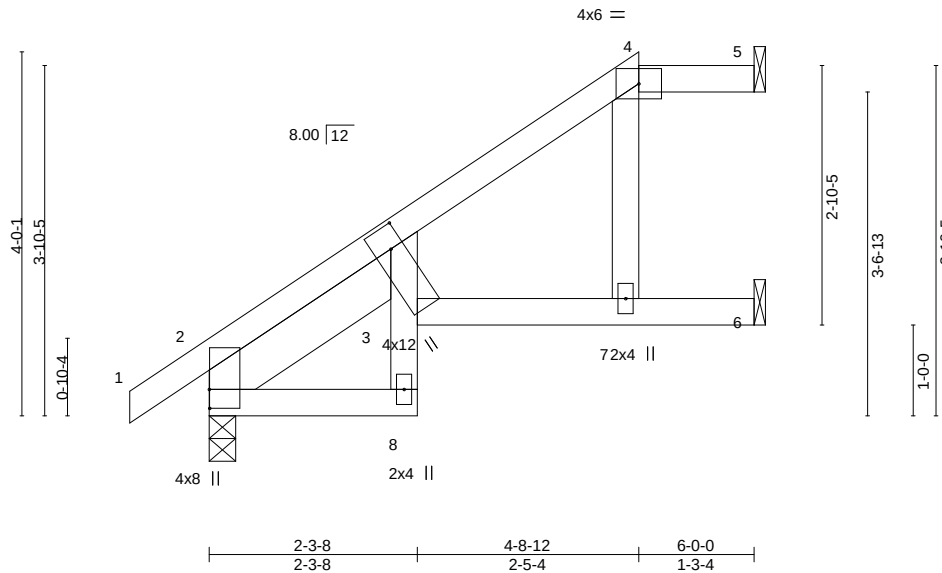


Plate Offsets (X,Y)-- [2:0-2-8,0-0-1], [3:0-3-0,0-1-12]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.16 8 >453	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.24 8 >301	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.25 6 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-4

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=130(LC 12)
Max Uplift 5=-15(LC 8), 2=-25(LC 12), 6=-64(LC 12)
Max Grav 5=42(LC 1), 2=333(LC 1), 6=220(LC 1)

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

TOP CHORD 3-10=-577/392
WEBS 4-7=-278/203

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=15ft; 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 4-8-12, Exterior(2E) 4-8-12 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M9	Jack-Open	1	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:12 2021 Page 1					LEE'S SUMMIT, MISSOURI
Job Reference (optional)					148164035

-0-10-8	2-3-8	3-5-12	6-0-0
0-10-8	2-3-8	1-2-4	2-6-4

10/22/2021

Scale = 1:20.3

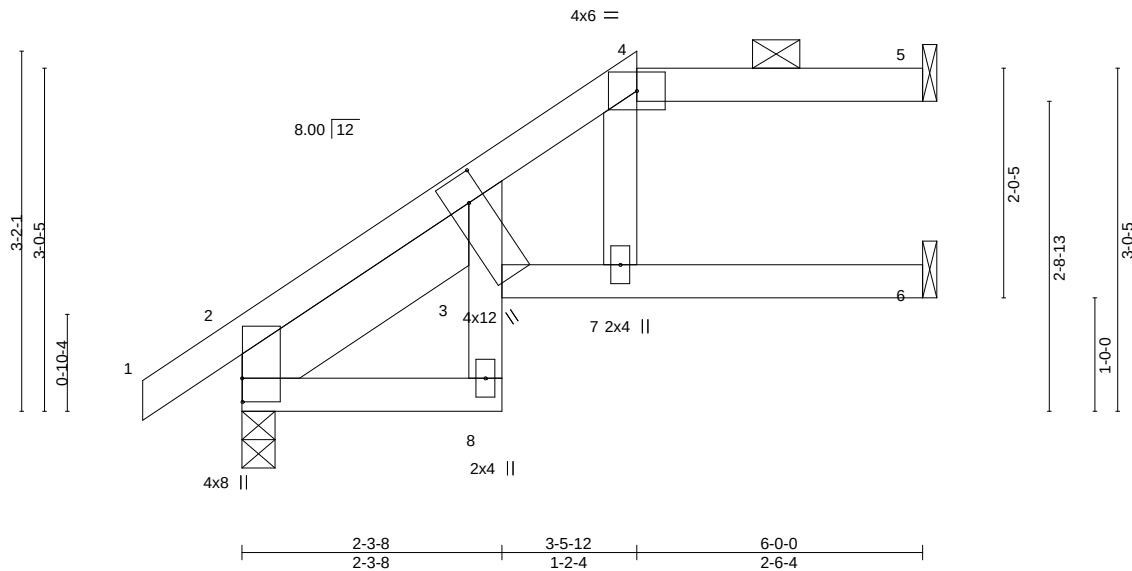


Plate Offsets (X,Y)-- [2:0-2-8,0-0-1], [3:0-3-0,0-1-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.15 3-7 >460	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.28 3-7 >255	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.25 5 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
 SLIDER Left 2x6 SPF No.2 2-6-4

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical
 Max Horz 2=100(LC 12)
 Max Uplift 5=-30(LC 8), 2=-35(LC 12), 6=-29(LC 12)
 Max Grav 5=86(LC 1), 2=333(LC 1), 6=177(LC 1)

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

TOP CHORD 3-10=-562/359
 WEBS 4-7=-416/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 3-5-12, Exterior(2E) 3-5-12 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4, 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	#56/MO
2945168	M10	Jack-Open	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

0-10-8 2-2-12 6-0-0 3-9-4

5x12 MT20HS =

Scale = 1:16.9

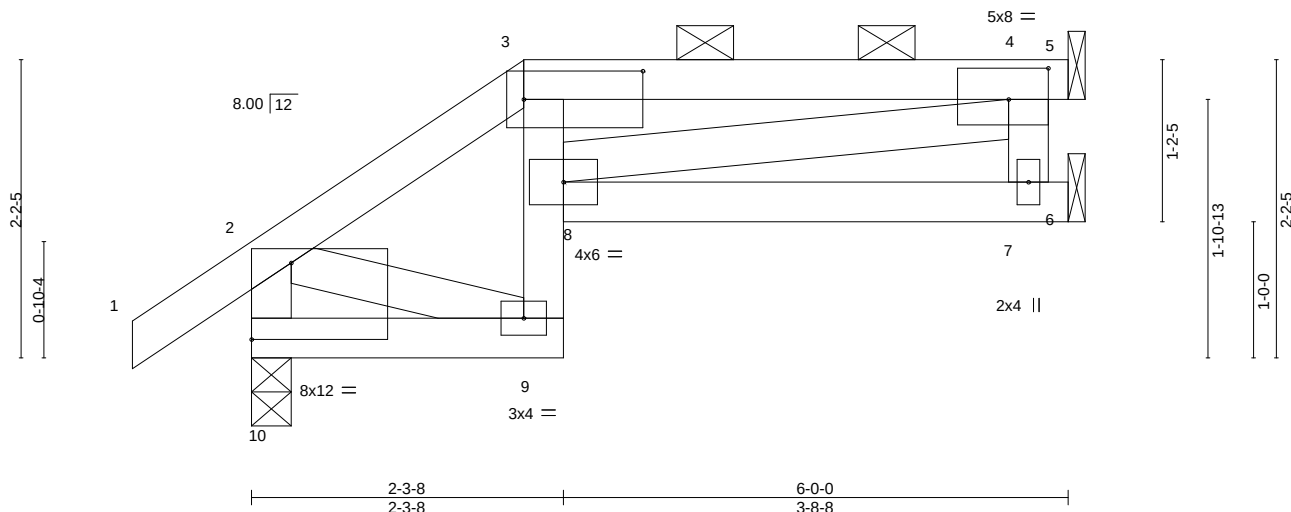


Plate Offsets (X,Y)--	[3:0-10-8,0-2-8], [4:0-3-8,0-2-12], [10:Edge,0-6-12]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.02 9	>999 240
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.03 7-8	>999 180
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.03 7	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS			
				PLATES	GRIP	
				MT20	197/144	
				MT20HS	148/108	
				Weight: 24 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	2-0-0 oc purlins (6-0-0 max.): 3-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 10=0-3-8, 4=Mechanical, 7=Mechanical
Max Horz 10=68(LC 12)
Max Uplift 10=-36(LC 12), 4=-67(LC 9)
Max Grav 10=328(LC 1), 4=214(LC 1), 7=83(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-375/193
WEBS 4-8=-198/383, 2-10=-308/133

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) 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
- 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) 10, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



October 4, 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	#56/MO
2945168	M11	Jack-Open Girder	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:52 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164037

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10/22/2021

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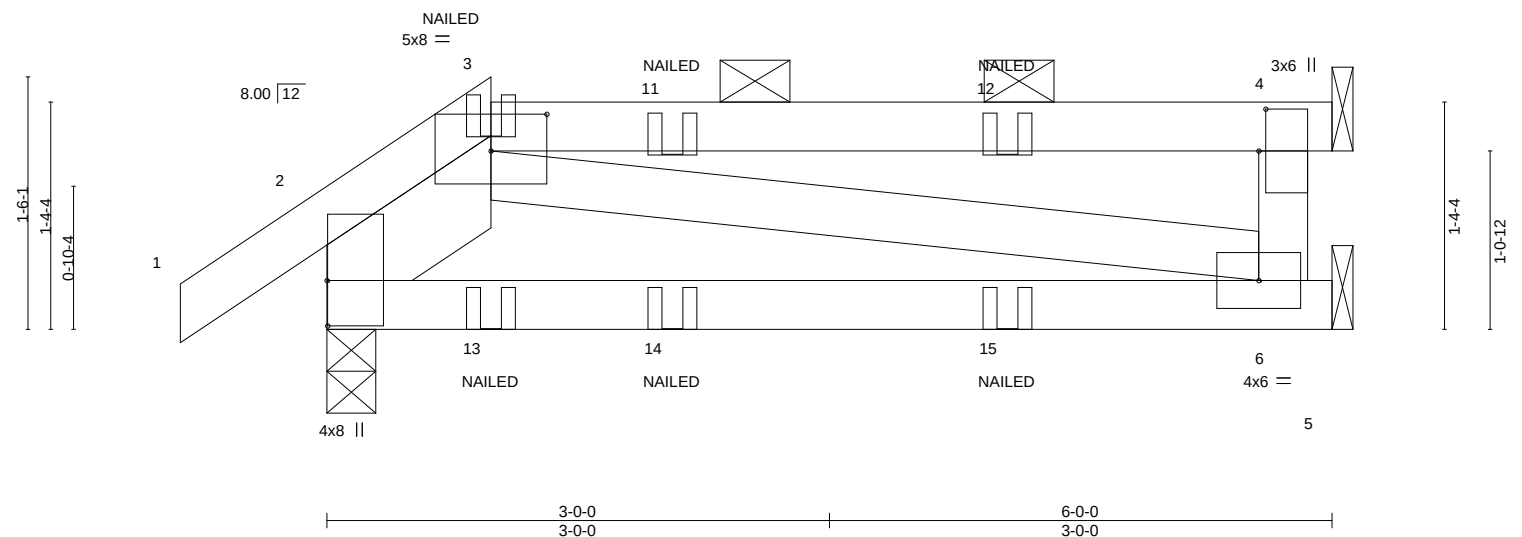


Plate Offsets (X, Y)--		[2:0-3-4,0-0-1], [3:0-4-0,0-2-10], [4:0-3-0,0-0-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.02	6-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.04	6-9	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 1-3-9

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=Mechanical, 6=Mechanical
 Max Horz 2=38(LC 8)
 Max Uplift 2=-69(LC 8), 4=-58(LC 4)
 Max Grav 2=333(LC 1), 4=166(LC 1), 6=138(LC 3)

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

TOP CHORD 2-3=-268/51
 BOT CHORD 2-6=-53/256
 WEBS 3-6=-261/54

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=-70, 3-4=-70, 5-7=-20
- Concentrated Loads (lb)
 Vert: 14=-11(F) 15=-11(F)



October 4, 2021

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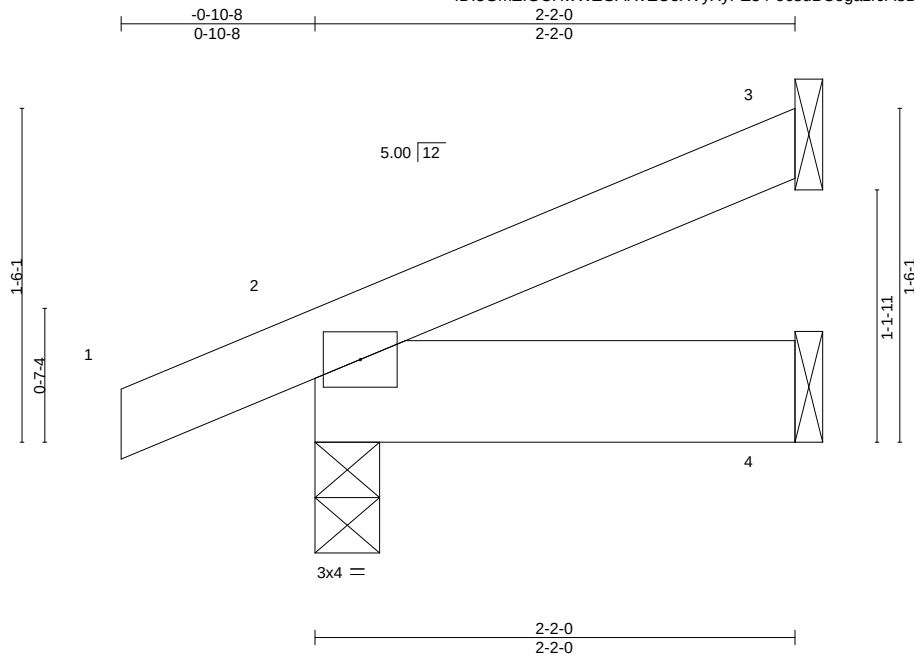


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	M12	Jack-Open	2	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:52 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						48164038

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10/22/2021



Scale = 1:10.4

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 0.05	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 10.0	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: 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 2-2-0 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=44(LC 12)
Max Uplift 3=-22(LC 12), 2=-27(LC 12), 4=-1(LC 12)
Max Grav 3=51(LC 1), 2=169(LC 1), 4=42(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 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	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	M13	Jack-Open Girder	2	1			DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Aug 16 2021 MiTek Industries, Inc.	Lee's Summit, Missouri
Job Reference (optional)						Thu Sep 30 14:34:54 2021 Page 1	

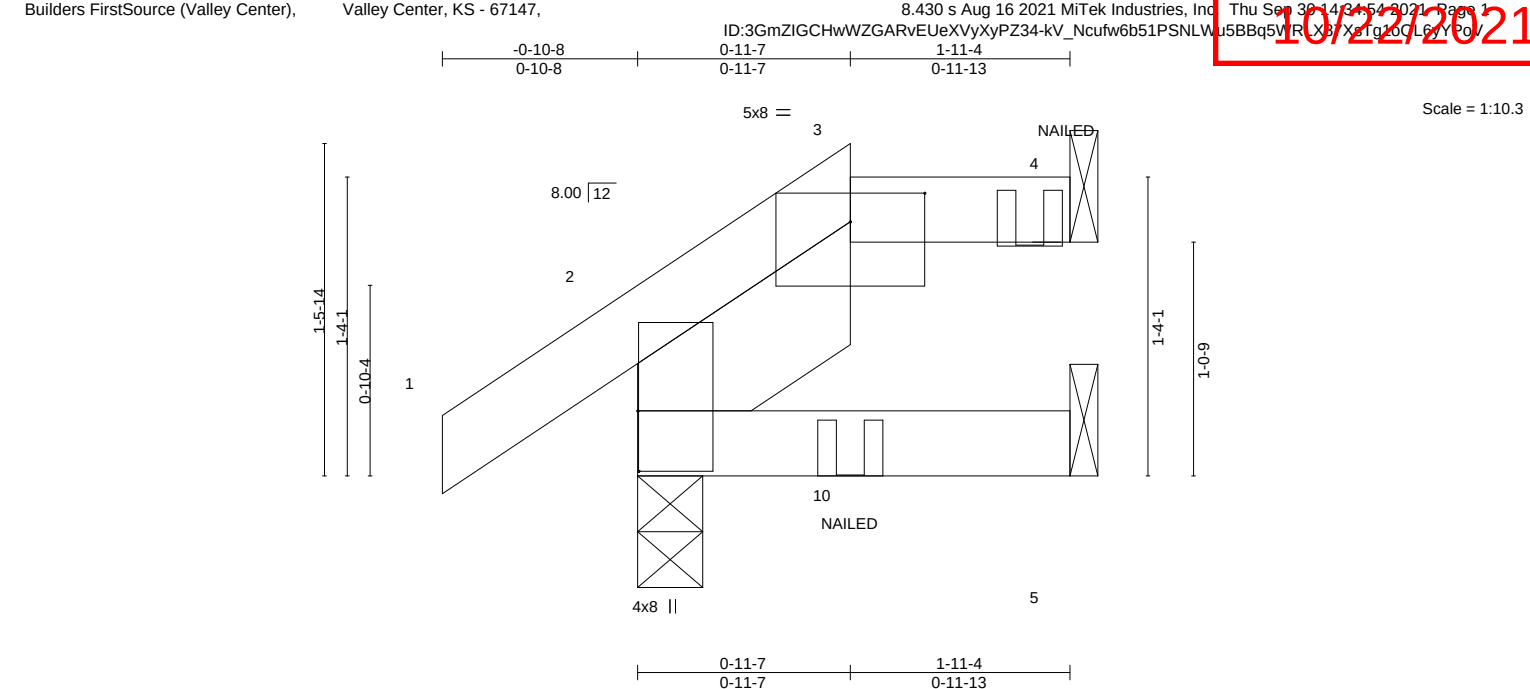


Plate Offsets (X,Y)-- [2:0-3-4,0-0-1], [3:0-4-0,0-1-9]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00 8	>999	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00 8	>999	
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00 4	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 8 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins: 3-4.
SLIDER Left 2x6 SPF No.2 1-3-3	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=37(LC 8)	
Max Uplift 4=-24(LC 15), 2=-22(LC 8), 5=-5(LC 8)	
Max Grav 4=29(LC 45), 2=162(LC 1), 5=44(LC 3)	

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) 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) 4, 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.
 - 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 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 5-6=-20
Concentrated Loads (lb)
Vert: 4=12(B)

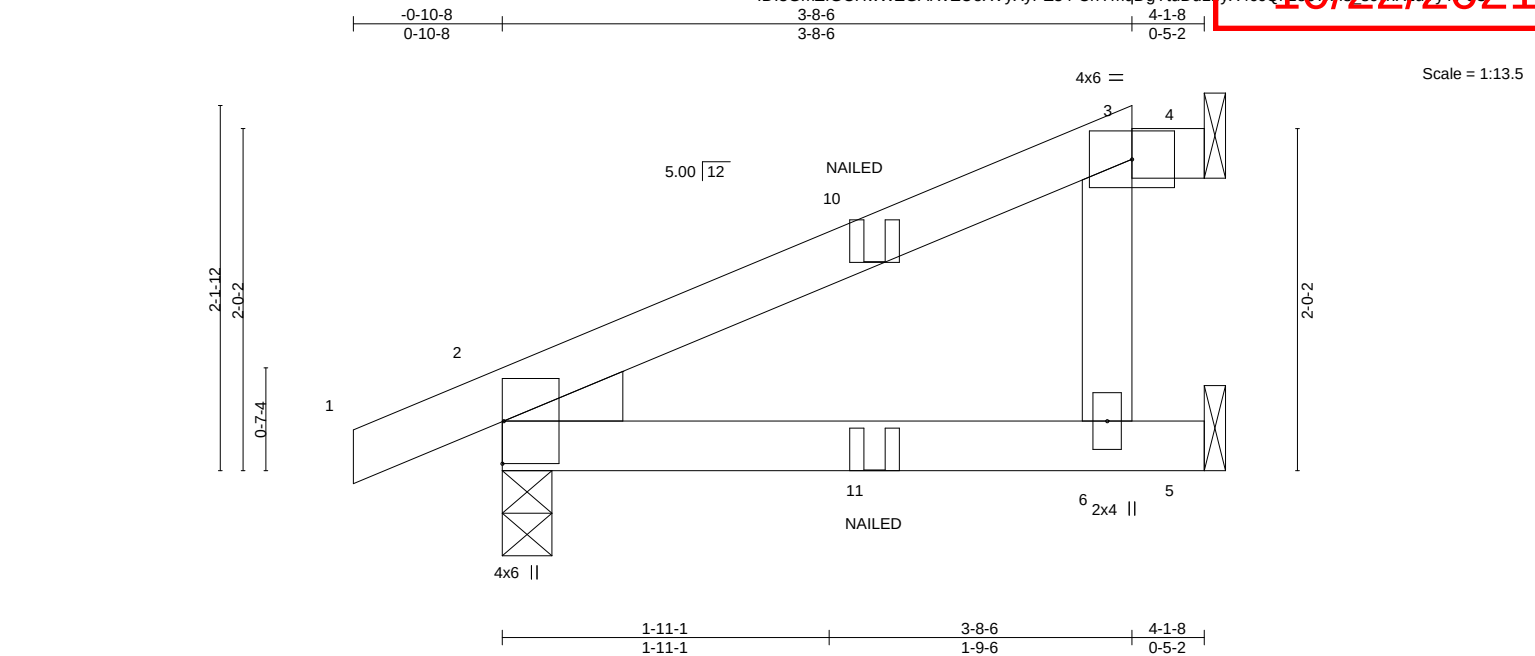


October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	M14	Jack-Open Girder	2	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164930

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:55 2021 Page 1
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10/22/2021



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)	-0.02	6-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.04	6-9	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.02	4	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
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except 2-0-0 oc purlins: 3-4.
 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=64(LC 8)
 Max Uplift 4=5(LC 4), 2=51(LC 8), 5=53(LC 8)
 Max Grav 4=13(LC 1), 2=249(LC 1), 5=162(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=-70, 3-4=-70, 5-7=-20
- Concentrated Loads (lb)
 Vert: 10=22(F) 11=-19(F)



October 4, 2021

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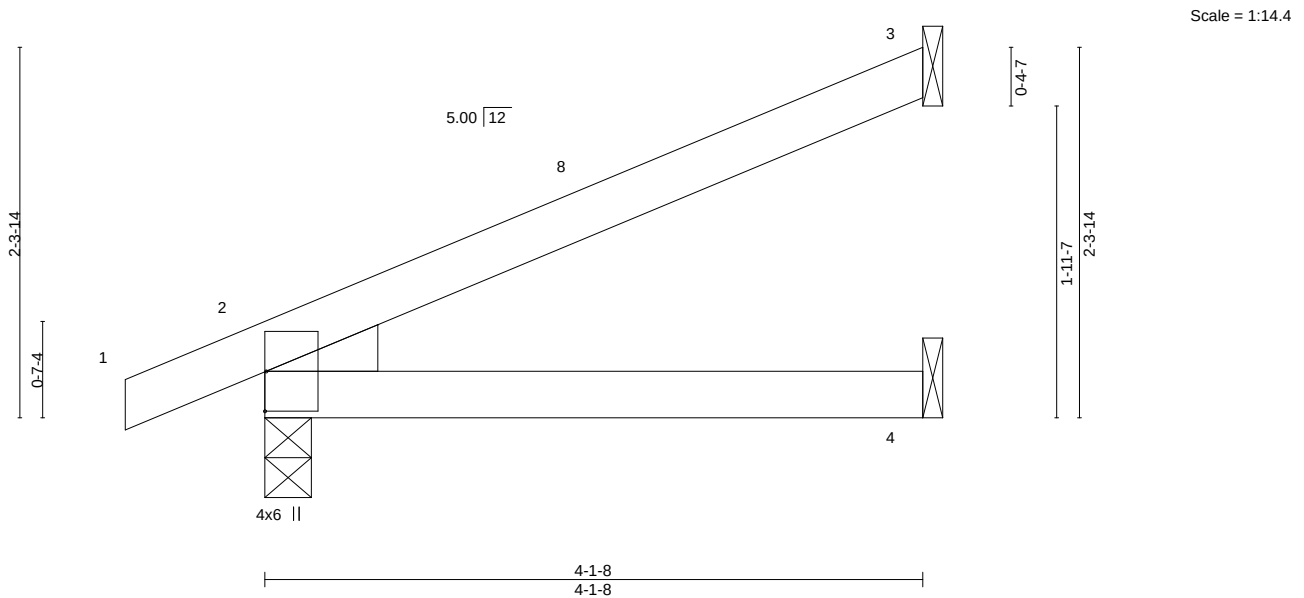


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	M15	Jack-Open	3	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:56 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164021

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10/22/2021



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)	0.02	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	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=73(LC 12)
Max Uplift 3=-50(LC 12), 2=-34(LC 12)
Max Grav 3=120(LC 1), 2=251(LC 1), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-12 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) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M16	Monopitch	1	1	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
Job Reference (optional)					

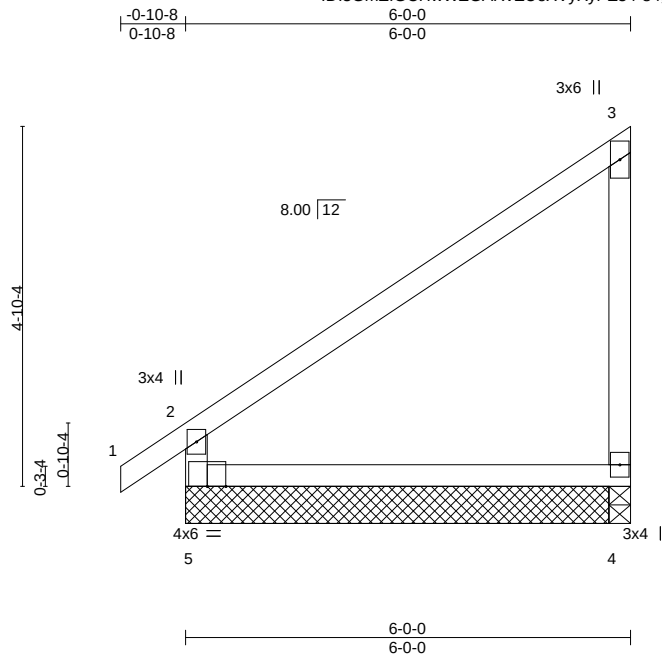
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:57 2021 Page 1

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10/22/2021



Scale = 1:31.1

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)	-0.04	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.07	4-5	>919	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	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
 WEBS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 4=5-8-8, 4=5-8-8, 5=5-8-8
 Max Horz 5=168(LC 11)
 Max Uplift 4=-76(LC 12), 5=-36(LC 12)
 Max Grav 4=273(LC 19), 4=250(LC 1), 5=335(LC 1)

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

TOP CHORD 2-5=-296/182

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 4, 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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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 #56/MO
2945168	M17	Jack-Open	1	1	AS NOTED FOR PLAN REVIEW
					DEVELOPMENT SERVICES
					LEE'S SUMMIT, MISSOURI
					10/22/2021

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:57 2021 Page 1

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-84gWFvhoPWTcGv5wC1eupSjxJYUJku2VM204/BYYPos

0-10-8 2-3-0 6-0-0
0-10-8 2-3-0 3-9-0

Scale = 1:28.7

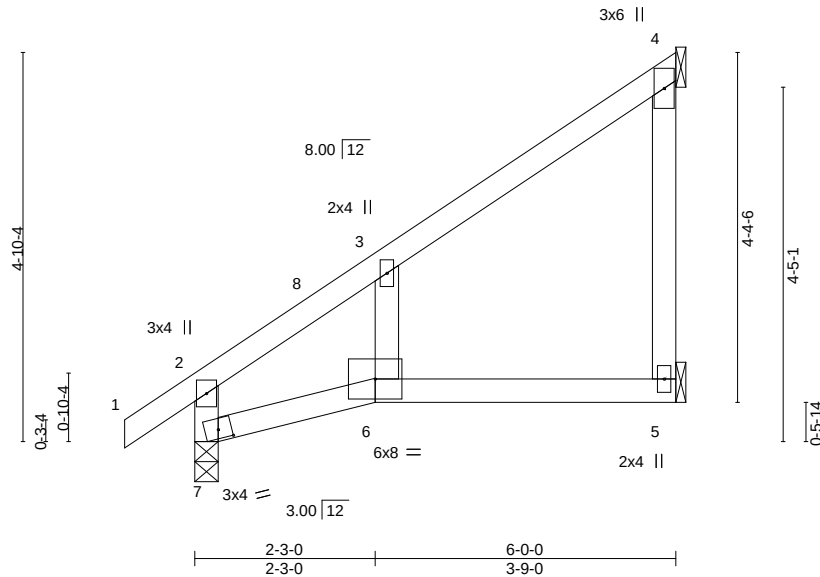


Plate Offsets (X,Y)--	[7:0-2-0,0-1-6]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL) 0.11	6 >598 240
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT) -0.15	5-6 >466 180
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT) 0.06	4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS		
					PLATES MT20 GRIP 197/144
					Weight: 23 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 5=Mechanical, 4=Mechanical, 7=0-3-8
Max Horz 7=152(LC 12)
Max Uplift 5=-14(LC 12), 4=-94(LC 12), 7=-5(LC 12)
Max Grav 5=96(LC 3), 4=176(LC 19), 7=335(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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-4-12, Interior(1) 2-4-12 to 5-10-4 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
- 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) 7 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) 5, 4, 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.
- 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 4, 2021

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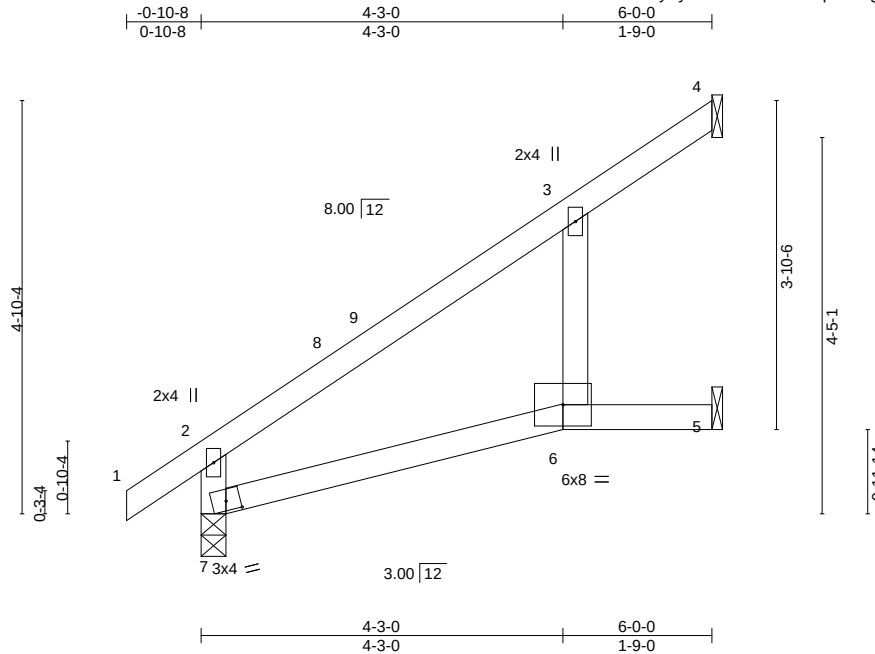


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M18	Jack-Open	1	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:58 2021 Page 1					48164024
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

ID:3GmZIGCHwWZGARvEueXVyXyPZ34-cGEuSFirApbTu3g6lk97MgC66ydr3L72bimeUkYPCr

10/22/2021



Scale = 1:27.1

Plate Offsets (X,Y)-- [7:0-2-0,0-1-6]												
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	0.40	Vert(LL)	0.11	6-7	>655	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	6-7	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.05	4	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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
 Max Horz 7=154(LC 12)
 Max Uplift 4=-62(LC 12), 5=-48(LC 12), 7=-5(LC 12)
 Max Grav 4=143(LC 19), 5=122(LC 19), 7=338(LC 1)

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

TOP CHORD 2-7=-262/73

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 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.



October 4, 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	#56/MO
2945168	M19	Jack-Open	8	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:34:59 2021 Page 1						148164035
ID:3GmZIGCHwWZGARvEueXVyXyPZ34-5TnGfbj3x7kKWDFDRgMupltsMAZoonCqV61JyY2o2						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						

10/22/2021

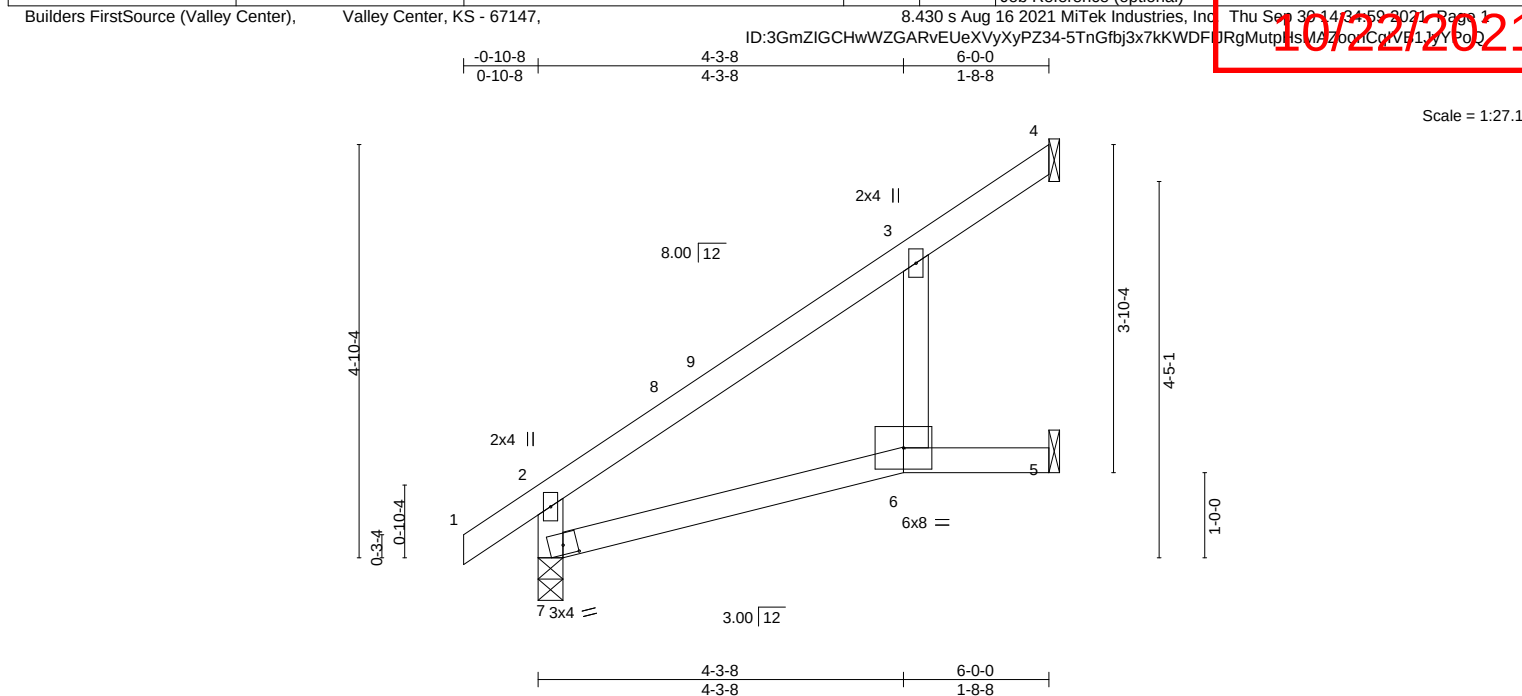


Plate Offsets (X,Y)--	[7:0-2-0,0-1-6]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	0.11	6-7 >658
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.14	6-7 >495
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.05	4 n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS			n/a
						PLATES
						MT20
						GRIP
						197/144
						Weight: 20 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
 Max Horz 7=154(LC 12)
 Max Uplift 4=-60(LC 12), 5=-49(LC 12), 7=-5(LC 12)
 Max Grav 4=142(LC 19), 5=123(LC 19), 7=338(LC 1)

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

TOP CHORD 2-7=-263/73

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 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.



October 4, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	M20	Jack-Open	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 01 2021 Page 1						LEE'S SUMMIT, MISSOURI
ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-1rv14HIJTk_2WPhRsjqzljba9NjGieVHC_50CYPOD						10/22/2021

0-10-8 5-6-12 6-0-0
0-10-8 5-6-12 0-5-4

Scale = 1:29.3

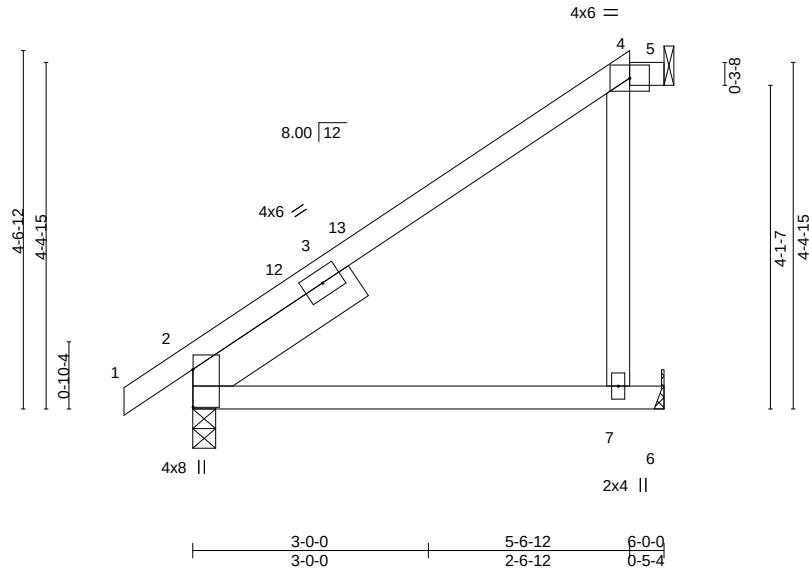


Plate Offsets (X,Y)-- [2:0-5-13,0-0-1]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.10 7-10	>730	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.15 7-10	>460	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.09 5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=150(LC 12)
Max Uplift 5=-5(LC 8), 2=-13(LC 12), 6=-92(LC 12)
Max Grav 5=13(LC 1), 2=333(LC 1), 6=253(LC 19)

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

TOP CHORD 2-4=-346/95

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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-12, Exterior(2E) 5-6-12 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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) 5, 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.
- 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	M21	Jack-Open	1	1		DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.430 s Aug 16 2021 MiTek Industries, Inc	Lee's Summit, Missouri
Job Reference (optional)					Thu Sep 30 14 35 02 2021 Page 1	

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-V1TPldxE26vNg_t3E3WWRggZB79FwWskdeYPol

10/22/2021

Scale = 1:22.5

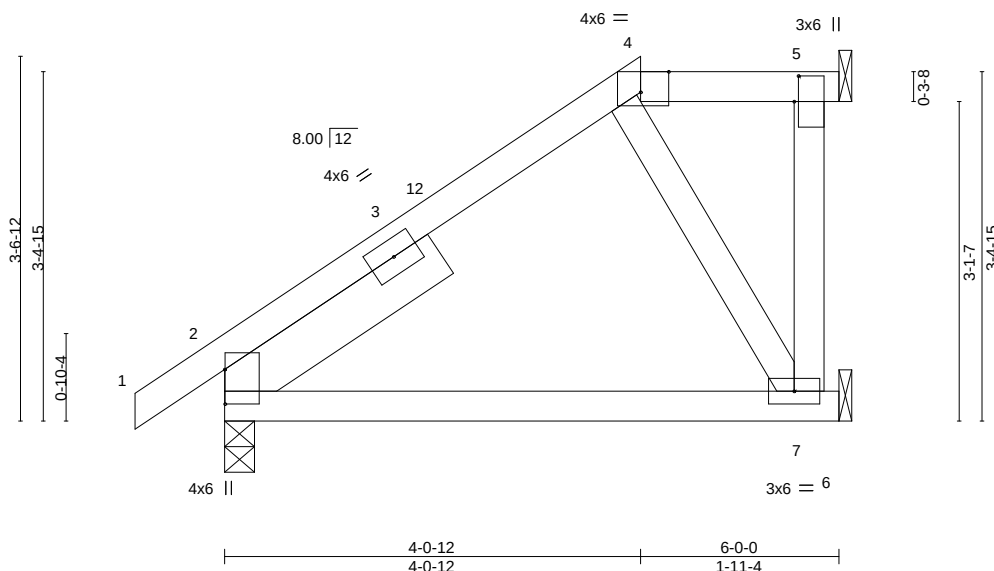


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [4:0-3-5,Edge], [5:0-3-0,0-0-8]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.03	7-10	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.07	7-10	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 27 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	2-0-0 oc purlins: 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 7=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 2=-29(LC 12), 5=-20(LC 8), 7=-45(LC 12)
Max Grav 2=323(LC 1), 5=58(LC 1), 7=201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-373/95

- 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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-12, Exterior(2E) 4-0-12 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
 - 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) 2, 5, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



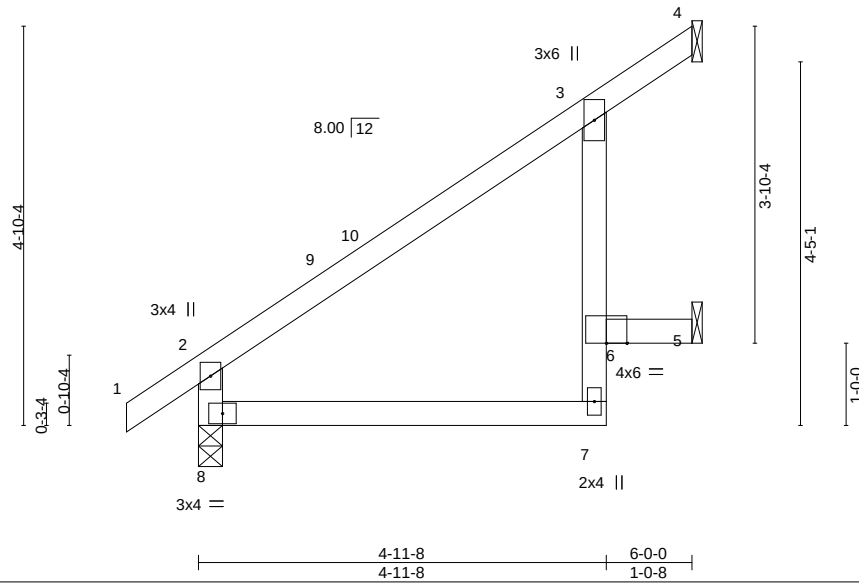
October 4,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M22	Jack-Open	3	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 03 2021 Page 1
Job Reference (optional)					DEVELOPMENT SERVICES
					LEE'S SUMMIT, MISSOURI

0-10-8 4-11-8 6-0-0
0-10-8 4-11-8 1-0-8



Scale = 1:28.0

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 0.19	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.04	7-8	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	4	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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 8=0-3-8
Max Horz 8=155(LC 12)
Max Uplift 4=-24(LC 12), 5=-84(LC 12), 8=-5(LC 12)
Max Grav 4=83(LC 19), 5=182(LC 19), 8=338(LC 1)

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

TOP CHORD 2-8=-298/98

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 8.
- 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 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

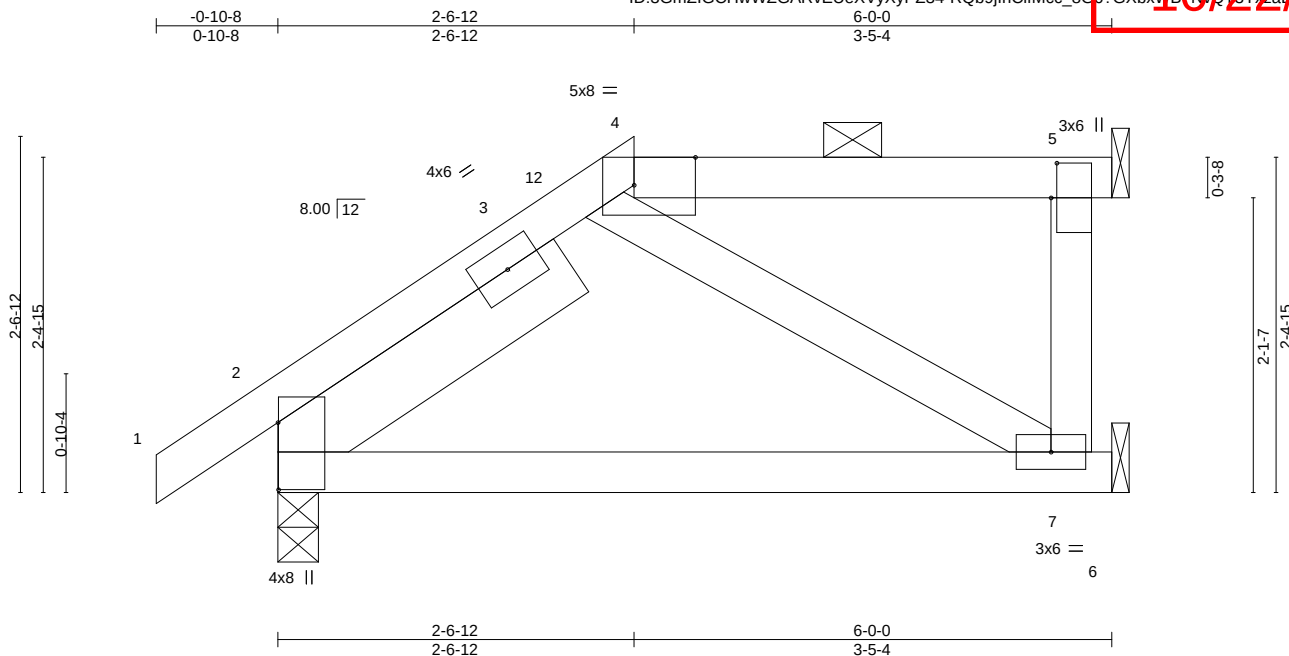
Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	M23	Jack-Open	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:04 2021 Page 1

ID:3GmZIGCHwWZGARvEUeXVYxYPZ34-RQb9JnClfMcc_8G6?GXbxvBPN0T8yza0yikxyTPU

10/22/2021



Scale = 1:16.6

Plate Offsets (X,Y)-- [2:0-5-13,0-0-1], [4:0-5-5,Edge], [5:0-3-0,0-0-8]												
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	0.18	Vert(LL)	-0.02	7-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	7-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 27 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	2-0-0 oc purlins: 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 7=Mechanical
Max Horz 2=77(LC 12)
Max Uplift 2=-36(LC 12), 5=-39(LC 8), 7=-7(LC 12)
Max Grav 2=323(LC 1), 5=110(LC 1), 7=150(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-364/76

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-6-12, Exterior(2E) 2-6-12 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



October 4, 2021

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	M24	Jack-Open Girder	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:05 2021 Page 1

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10/22/2021

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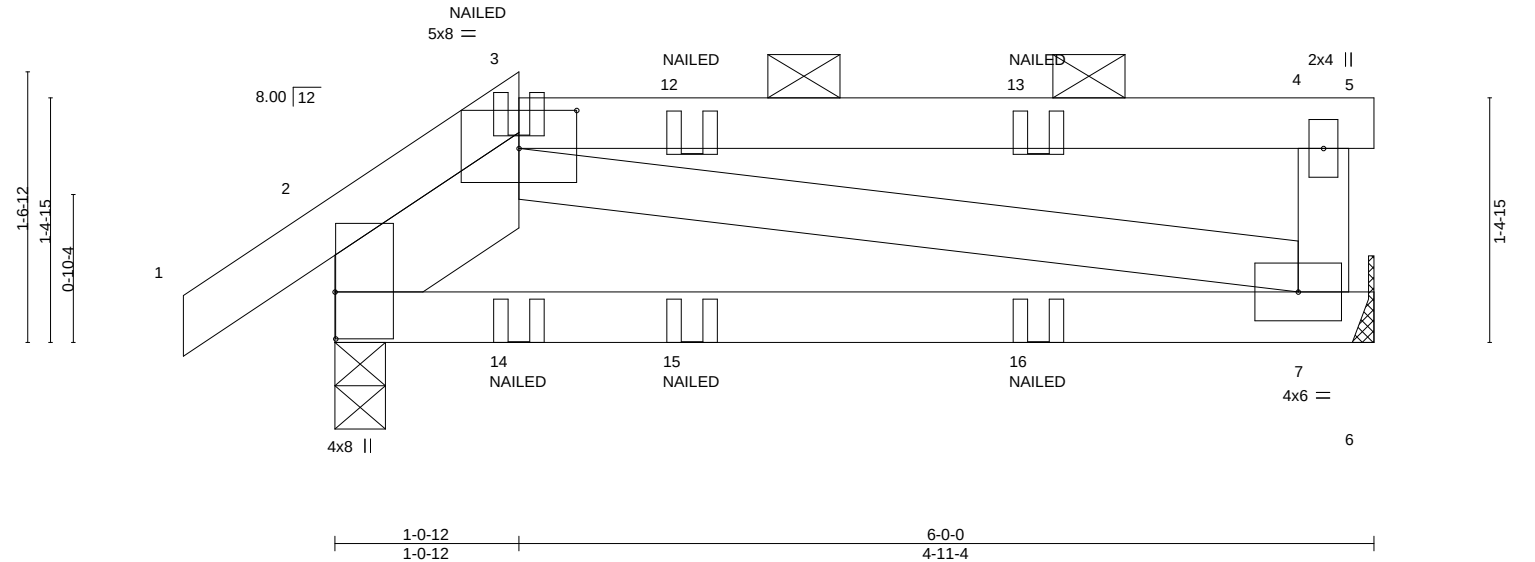


Plate Offsets (X,Y)--		[2:0-3-4,0-0-1], [3:0-4-0,0-2-10]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.02	7-10	>999	240	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.04	7-10	>999	180			
BCLL 0.0	Rep Stress Incr	NO	WB 0.09	Horz(CT)	0.00	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP								
									Weight: 24 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 1-4-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
 Max Horz 2=40(LC 8)
 Max Uplift 2=-61(LC 8), 7=-48(LC 8)
 Max Grav 2=314(LC 1), 7=262(LC 25)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=-70, 3-4=-70, 4-5=-20, 6-8=-20
- Concentrated Loads (lb)
 Vert: 14=8(F) 15=2(F) 16=2(F)



October 4, 2021

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

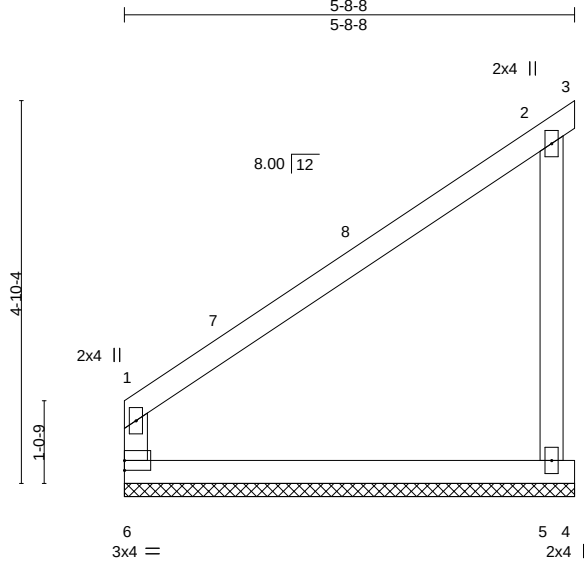
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	#56/MO
2945168	M25	Jack-Open	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:05 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164031

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Scale = 1:29.2

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 0.49	Vert(LL)	0.00	2	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	0.00	2	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 20 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 5-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=5-8-8, 5=5-8-8
 Max Horz 6=124(LC 12)
 Max Uplift 5=113(LC 12)
 Max Grav 6=237(LC 1), 5=263(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 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) except (jt=lb) 5=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.



October 4, 2021

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

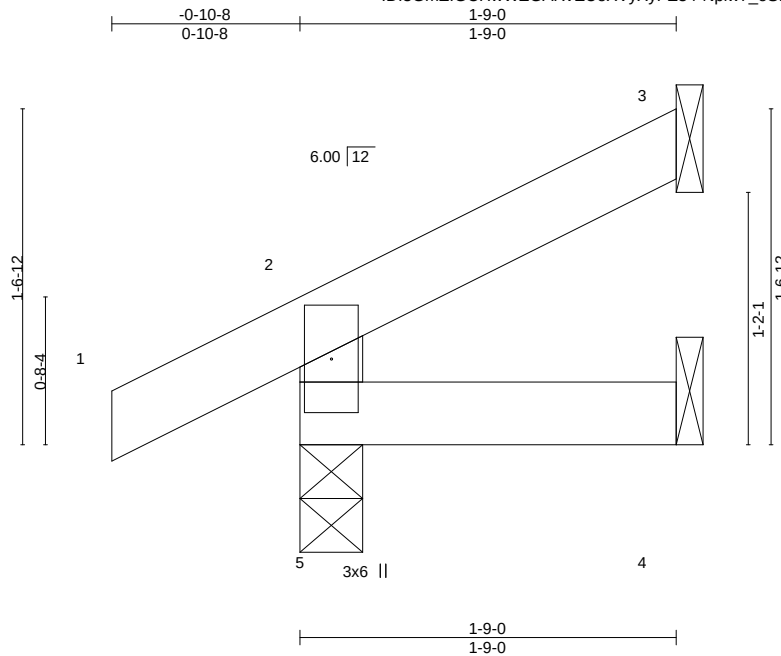


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE #56/MO
2945168	M26	Jack-Open	2	1	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 06 2021 Page 1					LEE'S SUMMIT, MISSOURI
Job Reference (optional)					148164032

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10/22/2021



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	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	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 1-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=39(LC 12)
 Max Uplift 5=22(LC 12), 3=24(LC 12)
 Max Grav 5=166(LC 1), 3=38(LC 1), 4=28(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) 5, 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.



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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 #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	PB1	Piggyback	3	1	Job Reference (optional)	48164933

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 13 2021 Page 1

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10-10-2
10-10-2

10/22/2021

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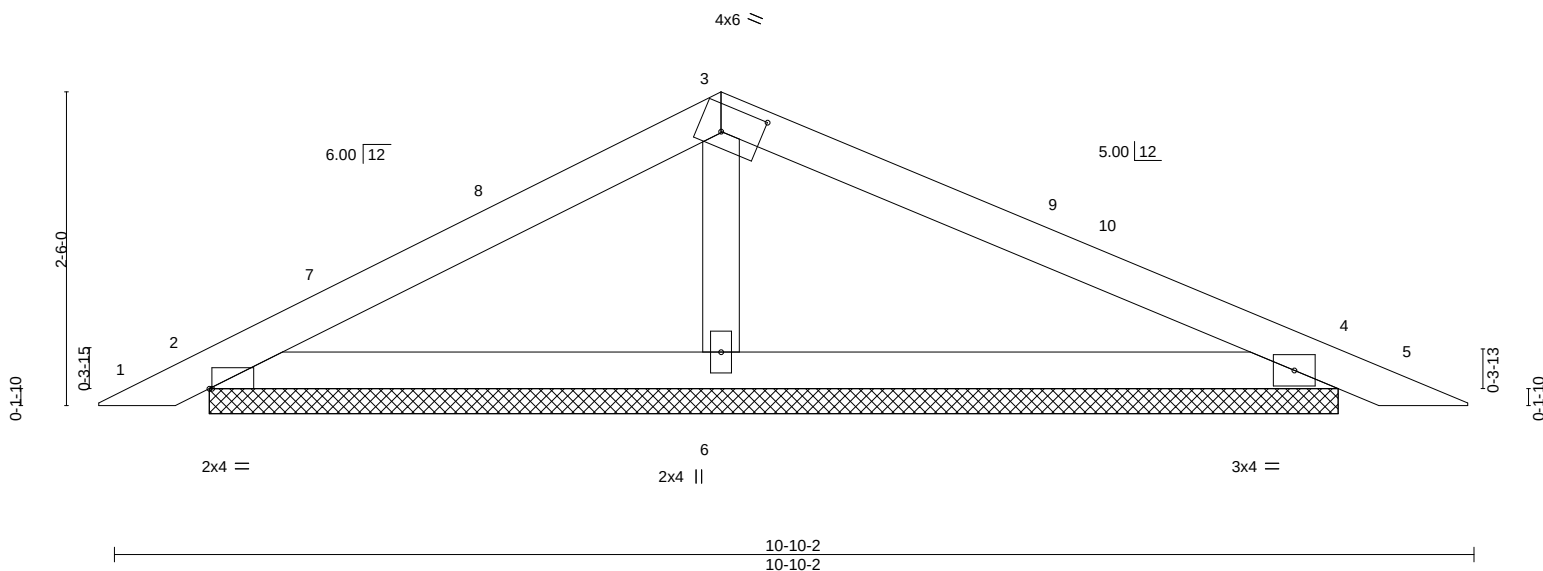


Plate Offsets (X,Y)-- [2:0-0-4,0-0-0], [3:0-3-12,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.01	5	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	0.03	5	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 26 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 10-0-0 oc bracing.

REACTIONS.

(size) 4=9-0-0, 2=9-0-0, 6=9-0-0
Max Horz 2=37(LC 12)
Max Uplift 4=-59(LC 13), 2=-45(LC 12), 6=-27(LC 12)
Max Grav 4=254(LC 26), 2=209(LC 25), 6=444(LC 1)

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

WEBS 3-6=-303/161

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-3 to 3-2-3, Interior(1) 3-2-3 to 4-10-1, Exterior(2R) 4-10-1 to 7-10-1, Interior(1) 7-10-1 to 10-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 4, 2021

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



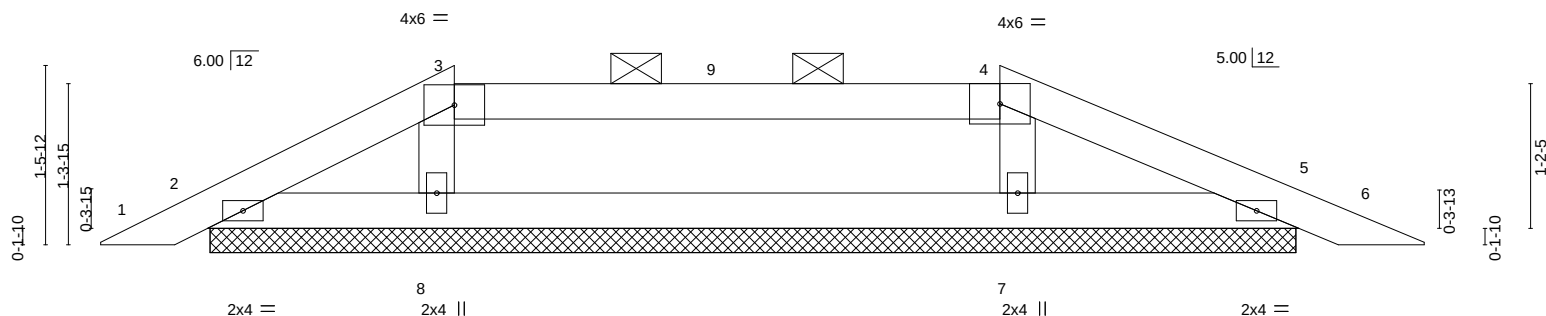
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	PB2	Piggyback	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

ID:3GmZIGChWZGARvEueXVyXyPZ34-8LBxpjvTPkcCpWuBh5St?2wt3FMtLakPHbel3y7Y203

10/22/2021

Scale = 1:19.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.00				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 25 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 10-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 8-11-8.
(lb) - Max Horz 2=-20(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 5, 2 except 8=343(LC 25), 7=352(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-261/148, 4-7=-268/155

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) 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
- 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) 5, 2, 8, 7.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4, 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 #56/MO	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
2945168	PB3	Piggyback	1	1	Job Reference (optional)	10/22/2021

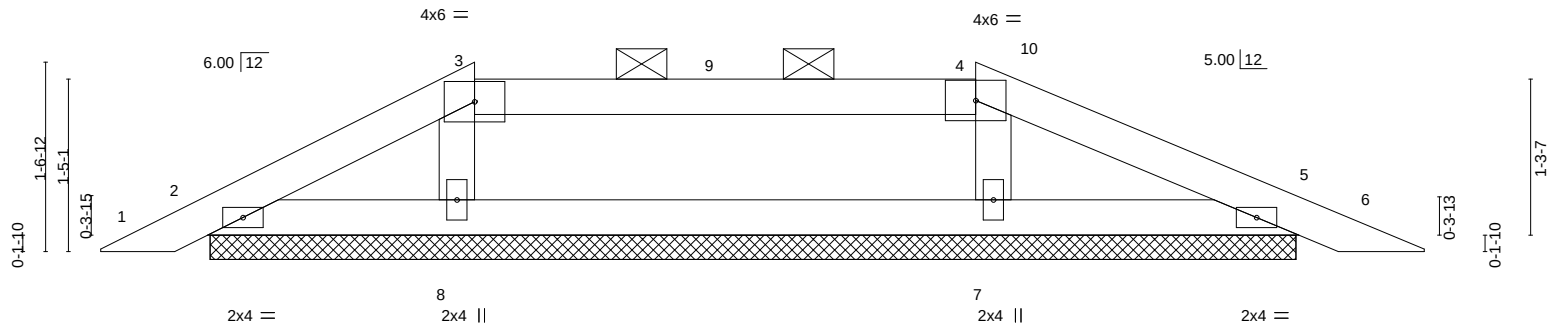
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:15 2021 Page 1

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11-0-2
11-0-2

Scale = 1:19.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 25 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 10-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 8-11-8.
(lb) - Max Horz 2=21(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 5, 2 except 7=338(LC 26), 8=323(LC 25)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-255/146

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) 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
- 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) 5, 2, 7, 8.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 4, 2021

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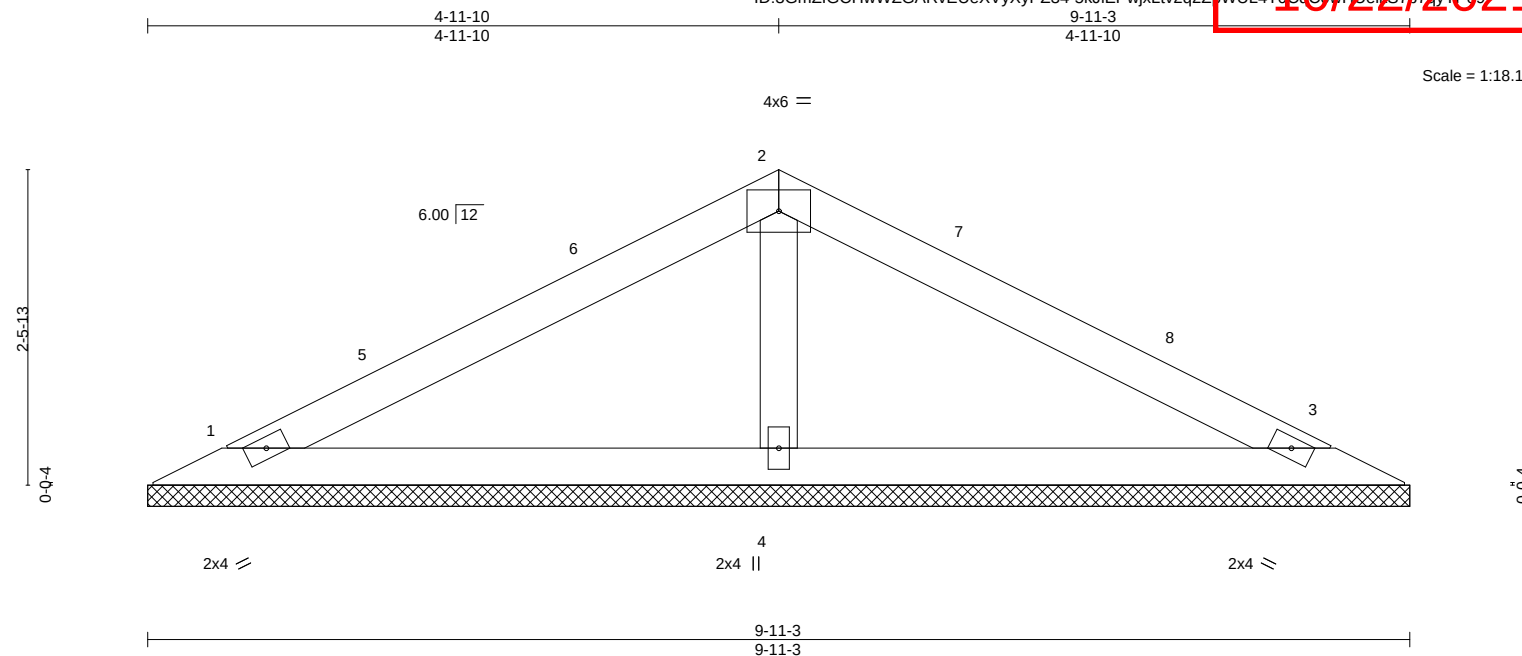


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO AS NOTED FOR PLAN REVIEW
2945168	V1	Valley	1	1	Job Reference (optional)	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI

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10/22/2021



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 0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 24 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=9-11-3, 3=9-11-3, 4=9-11-3
Max Horz 1=34(LC 12)
Max Uplift 1=34(LC 12), 3=40(LC 13), 4=30(LC 12)
Max Grav 1=180(LC 25), 3=180(LC 26), 4=425(LC 1)

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

WEBS 2-4=-294/160

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-11-10, Exterior(2R) 4-11-10 to 7-11-10, Interior(1) 7-11-10 to 9-3-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



October 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	V2	Valley	1	1		48164937	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						LEE'S SUMMIT, MISSOURI	

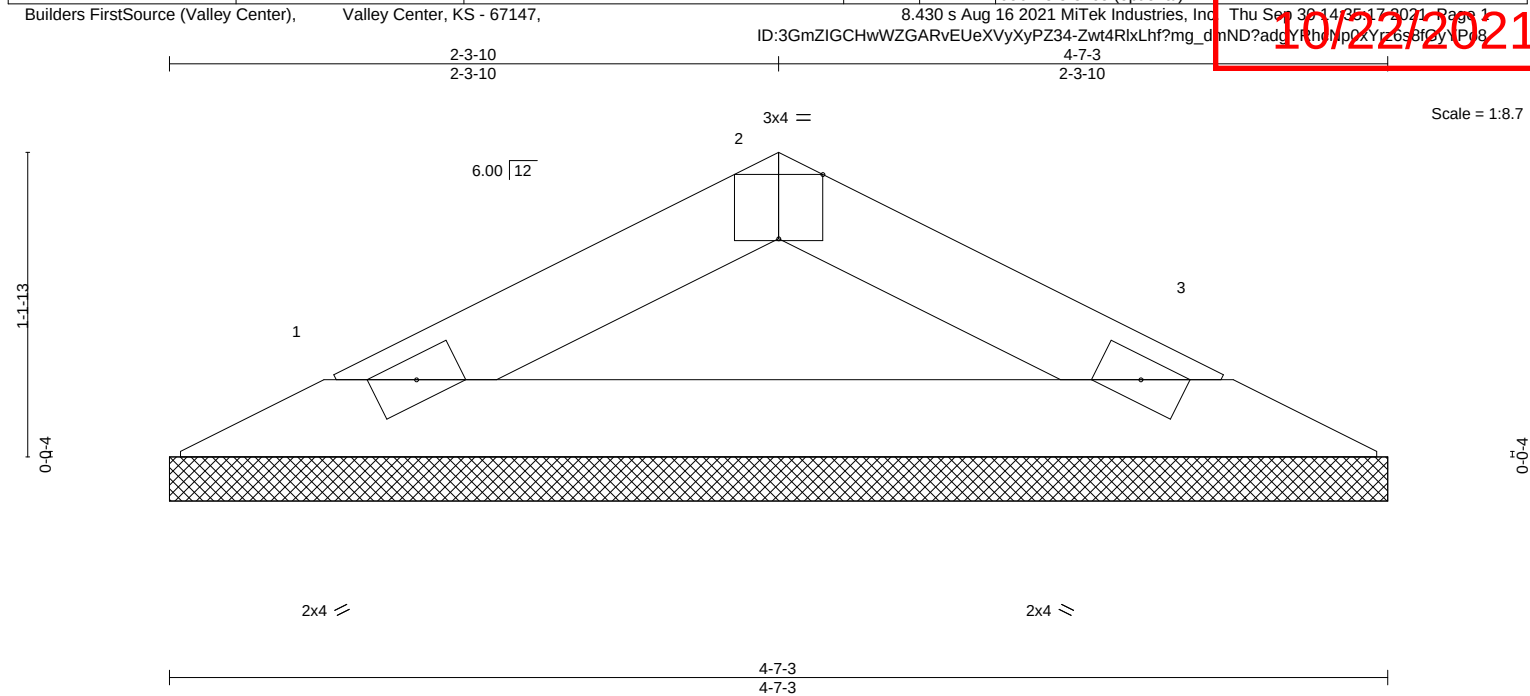


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.12
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 9 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 1=4-7-3, 3=4-7-3
	Max Horz 1=13(LC 12)
	Max Uplift 1=-19(LC 12), 3=-19(LC 13)
	Max Grav 1=150(LC 1), 3=150(LC 1)

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

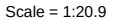
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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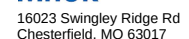
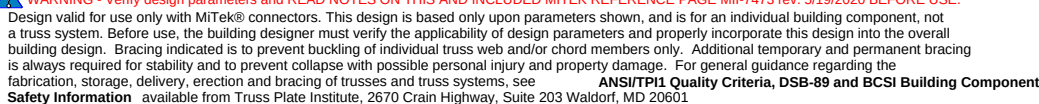
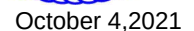
Weight: 18 lb FT = 20%

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.

(size) 1=6-8-7, 3=6-8-7
Max Horz 1=111(LC 9)
Max Uplift 1=-32(LC 12), 3=-58(LC 12)
Max Grav 1=267(LC 1), 3=267(LC 1)

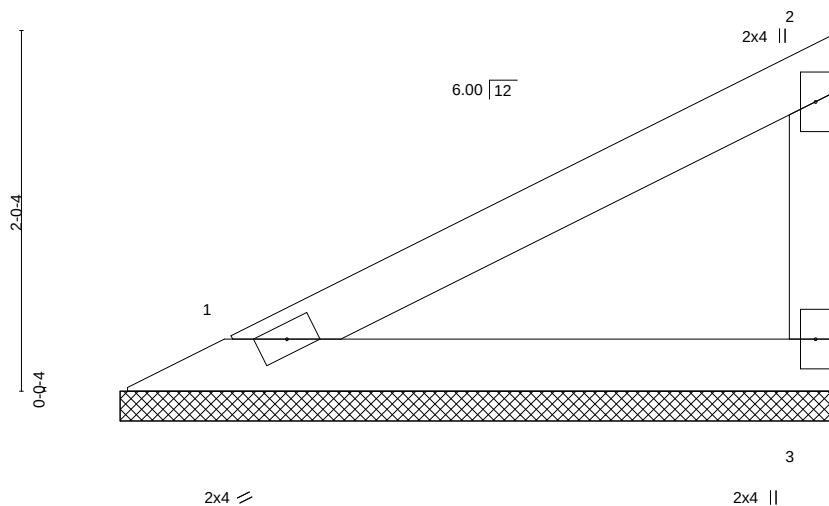
NOTES-

- 1) 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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.



Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO	AS NOTED FOR PLAN REVIEW
2945168	V4	Valley	1	1	Job Reference (optional)	48164039	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 19 2021 Page 1				

ID:3GmZIGCHwWZGARvEueXVyXyPZ34-VJ?qsRzcDGFUVHr8Ue12i5e1503TUr28QQLFk9YYP66 10/22/2021



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 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	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: 11 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 4-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-0-7, 3=4-0-7
Max Horz 1=61(LC 11)
Max Uplift 1=-19(LC 12), 3=-34(LC 12)
Max Grav 1=147(LC 1), 3=147(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

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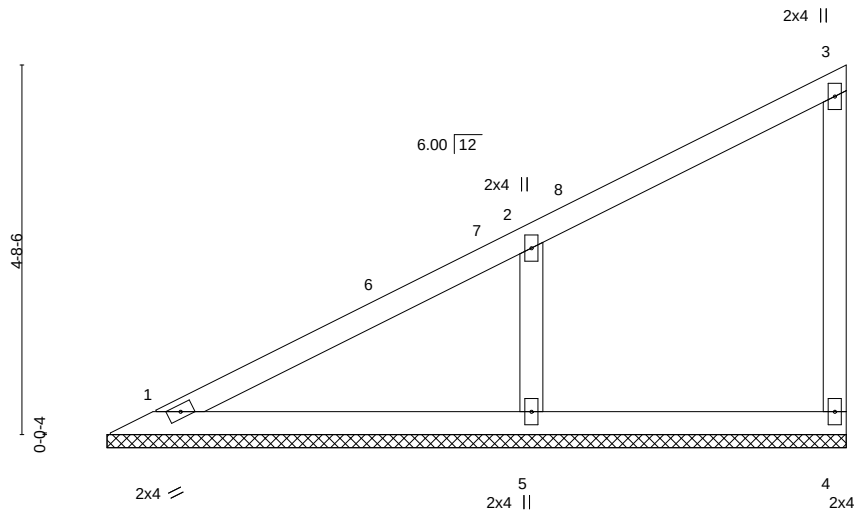


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V5	Valley	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:20 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164940

ID:3GmZIGCHwWZGARvEueXvYxYPZ34-zVZC4nzE_aNLXRML2MYHFJAUpCwDRIIf45GkyVPr5

10/22/2021



Scale = 1:29.3

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 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 29 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=9-4-11, 4=9-4-11, 5=9-4-11
 Max Horz 1=161(LC 9)
 Max Uplift 4=-27(LC 9), 5=-115(LC 12)
 Max Grav 1=173(LC 1), 4=122(LC 1), 5=481(LC 1)

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

WEBS 2-5=-364/237

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=115.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 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

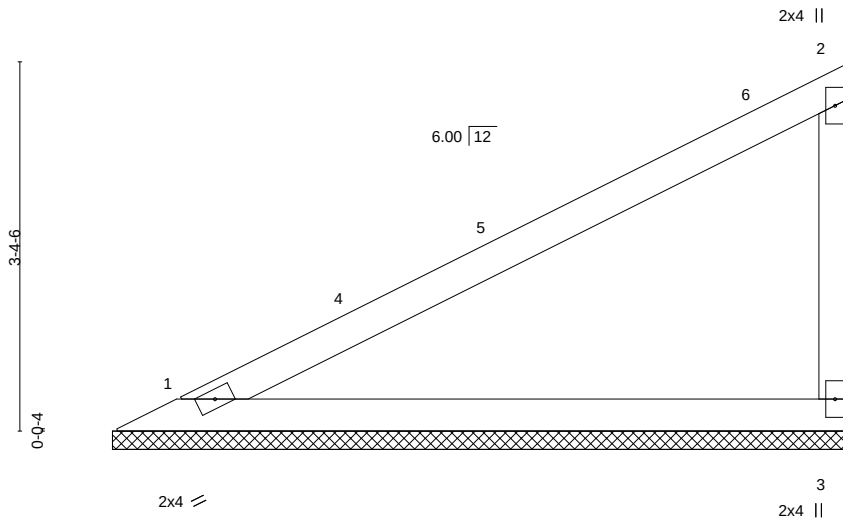


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V6	Valley	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 20 2021 Page 1
Job Reference (optional)						AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

ID:3GmZIGChWZGARvEueXVyXyPZ34-zVZC4nzE_aNLXRML2MYHF1AmpLNDIII450GkyVPr5

10/22/2021



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)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.38	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: 19 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-8-11, 3=6-8-11
Max Horz 1=111(LC 9)
Max Uplift 1=-32(LC 12), 3=-58(LC 12)
Max Grav 1=268(LC 1), 3=268(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-6-15 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

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

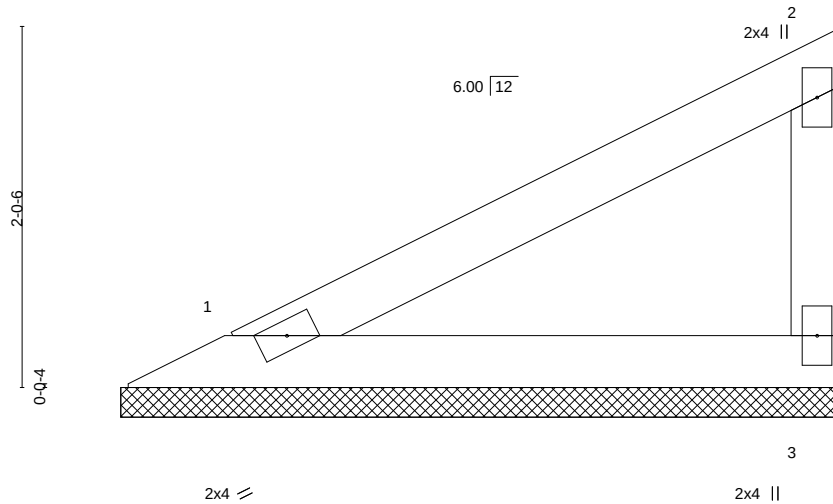


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V7	Valley	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14 35 21 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164942

ID:3GmZIGCHwWZGARvEUeXVyXyPZ34-Rh7bH6_sluVC9bXc34WnUj4YDlWwYRkkQo2YVYP4

10/22/2021



Scale = 1:12.9

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 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	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: 11 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 4-0-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-0-11, 3=4-0-11
 Max Horz 1=62(LC 11)
 Max Uplift 1=-19(LC 12), 3=-34(LC 12)
 Max Grav 1=148(LC 1), 3=148(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

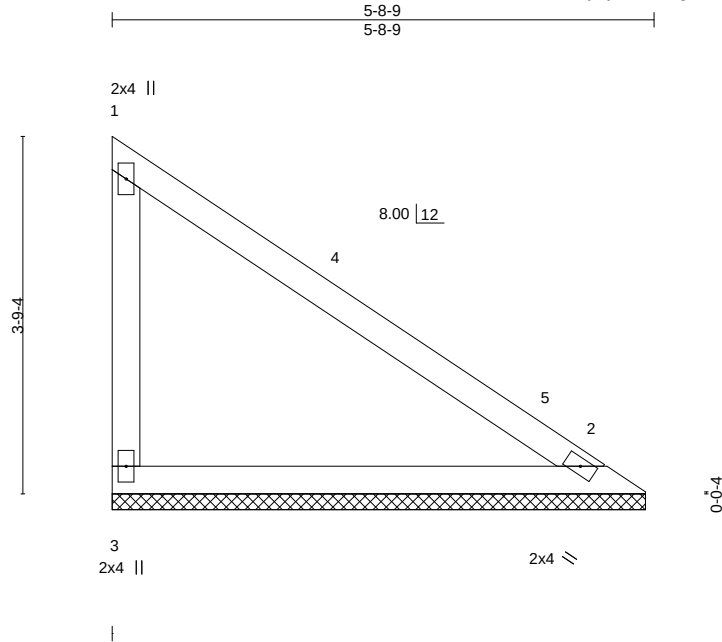
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V8	Valley	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:22 2021 Page 1						LEE'S SUMMIT, MISSOURI
ID:3GmZIGChwWZGARvEUeXVyXyPZ34-vugzUS?UWBd3mVj9nblKkGBld1f/Caa62ayLU7Yp3						10/22/2021



Scale = 1:24.3

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 0.50	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 17 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 5-8-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=5-7-8, 2=5-7-8
 Max Horz 3=-120(LC 8)
 Max Uplift 3=-62(LC 13), 2=-20(LC 13)
 Max Grav 3=238(LC 20), 2=226(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-2-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 4, 2021

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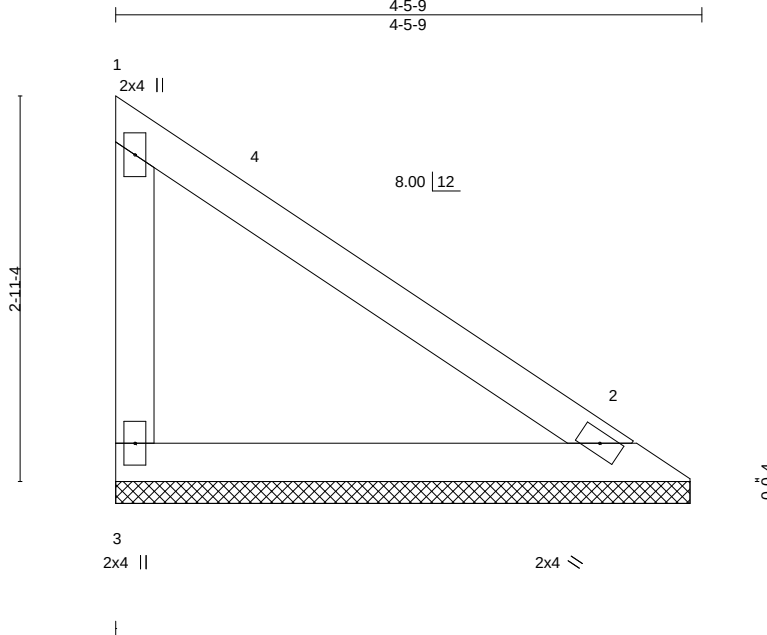
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Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V9	Valley	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:23 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						148164944

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Scale = 1:17.5

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	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 13 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 4-5-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=4-4-8, 2=4-4-8
Max Horz 3=-90(LC 8)
Max Uplift 3=-46(LC 13), 2=-15(LC 13)
Max Grav 3=179(LC 20), 2=170(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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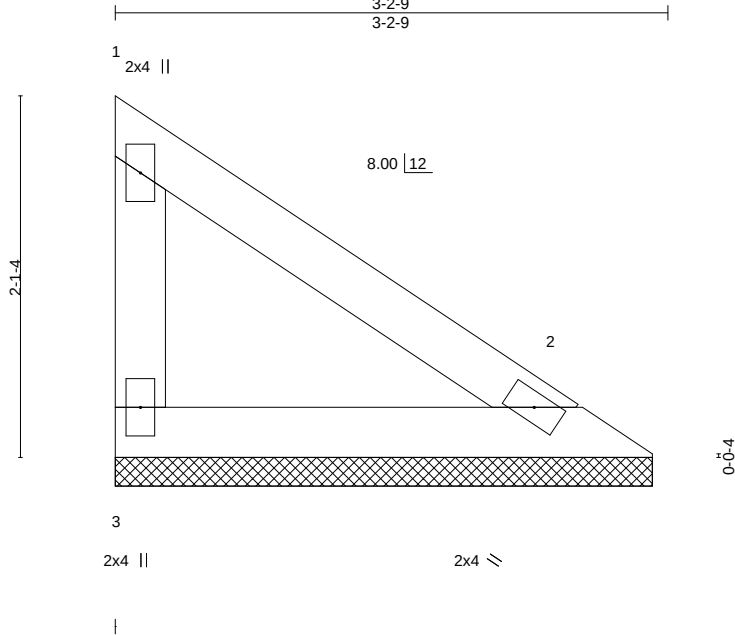


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Job	Truss	Truss Type	Qty	Ply	Summit/WOODSIDE RIDGE	#56/MO
2945168	V10	Valley	1	1		AS NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						DEVELOPMENT SERVICES
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 30 14:35:17 2021 Page 1						LEE'S SUMMIT, MISSOURI
Job Reference (optional)						

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10/22/2021



Scale = 1:13.4

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 0.11	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	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
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=3-1-8, 2=3-1-8
 Max Horz 3=-60(LC 8)
 Max Uplift 3=-31(LC 13), 2=-10(LC 13)
 Max Grav 3=120(LC 20), 2=114(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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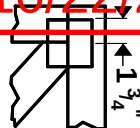


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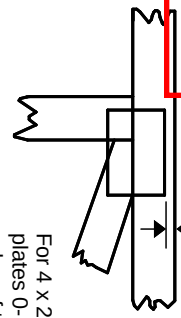
10/22/2021

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 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

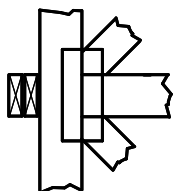
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

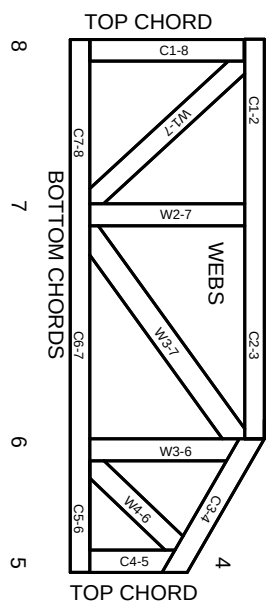


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: 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



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

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