



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/02/2021 4:13:54

MiTek USA, Inc.

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

Re: 2895604

SUMMIT/HAWTHORN RIDGE#156/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: I47385478 thru I47385558

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

Missouri COA: Engineering 001193



August 11, 2021

Sevier, Scott ,Engineer

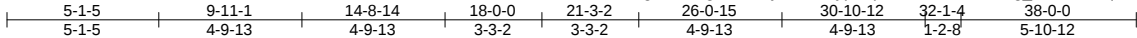
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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/HAWTHORN RIDGE#156/MO	147385478
2895604	A1	Hip Girder	1	2	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:20 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-2ypnZpoYNc1sMnVUWZg_JXwDilxHqRaKRkR?UXypHzL



Scale = 1:77.5

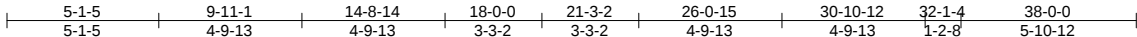
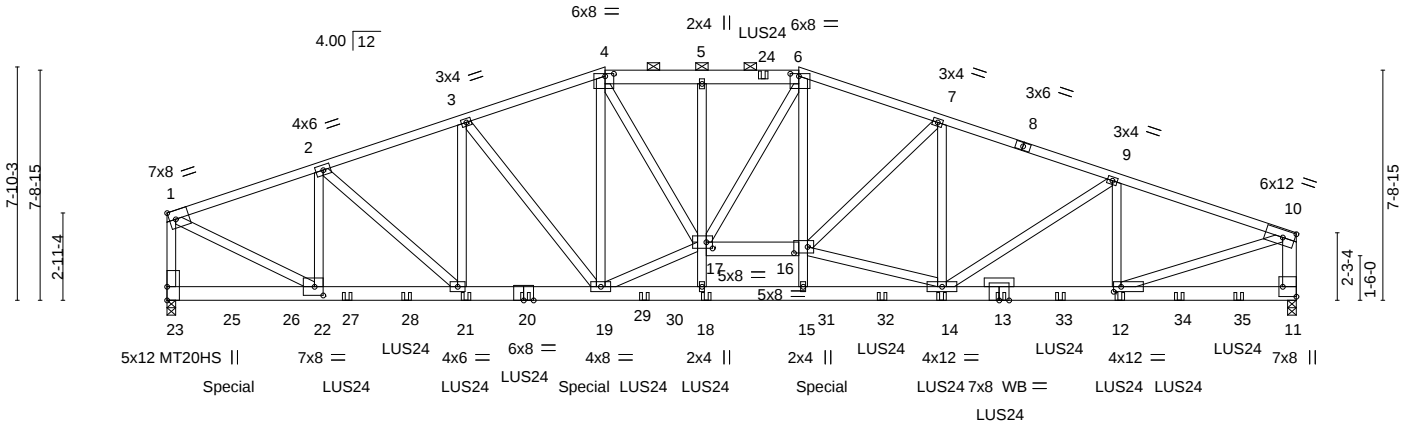


Plate Offsets (X,Y)-- [4:0-3-8,0-1-0], [6:0-3-8,0-1-0], [11:Edge,0-5-8], [12:0-3-0,0-2-0], [16:0-5-8,0-2-8], [17:0-2-8,0-2-8], [22:0-3-8,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.25 14-15 >999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.44 14-15 >999	180	MT20HS 148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.09 11 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 504 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
4-6: 2x6 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except*
13-20,16-17: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
10-11: 2x6 SPF No.2, 10-12: 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 23=0-3-8, 11=0-3-8
Max Horz 23=-55(LC 39)
Max Uplift 23=-1869(LC 4), 11=-1728(LC 5)
Max Grav 23=7427(LC 1), 11=6909(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7733/1968, 2-3=-9329/2466, 3-4=-9089/2427, 4-5=-9517/2524, 5-6=-9497/2517,
6-7=-9758/2585, 7-9=-10487/2753, 9-10=-9701/2458, 1-23=-6362/1637,
10-11=-6206/1595
BOT CHORD 21-22=-1828/7283, 19-21=-2232/8800, 18-19=-1913/7650, 15-18=-1903/7590,
14-15=-1905/7598, 12-14=-2316/9141, 11-12=-121/404, 16-17=-375/1595
WEBS 2-22=-2184/661, 2-21=-569/2025, 4-19=-395/1243, 15-16=-248/844, 6-16=-627/2174,
1-22=-2047/8091, 7-14=-209/589, 9-14=-290/997, 14-16=-636/2379, 7-16=-939/318,
3-19=-407/196, 17-18=-111/631, 5-17=-1104/303, 17-19=-324/1118, 6-17=-230/827,
4-17=-452/1947, 9-12=-1160/402, 10-12=-2317/9222

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc; 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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)
23=1869, 11=1728.



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Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385478
2895604	A1	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.430 s Jun 2 2021 MiTek Industries, Inc.
Tue Aug 10 09:35:20 2021
Page 2
ID:E5coXNwXg6dPCXgLPtio7ky4NV8-2ypnZpoYNc1sMnVUWZg_JXwDilxHqRaKRkR?UXypHzL

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 5-11-0 oc max. starting at 6-0-12 from the left end to 36-0-12 to connect truss(es) to front face of bottom chord.
 - 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 20-0-12 from the left end to connect truss(es) to front face of top chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 599 lb down and 146 lb up at 0-1-12, 588 lb down and 156 lb up at 2-0-12, 588 lb down and 155 lb up at 4-0-12, and 575 lb down and 209 lb up at 14-0-12, and 575 lb down and 209 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-70, 4-6=-70, 6-10=-70, 11-23=-20, 16-17=-20
 - Concentrated Loads (lb)
 - Vert: 23=-599(F) 20=-562(F) 21=-562(F) 14=-562(F) 13=-562(F) 18=-562(F) 12=-588(F) 24=-544(F) 25=-588(F) 26=-588(F) 27=-562(F) 28=-562(F) 29=-575(F) 30=-562(F) 31=-575(F) 32=-562(F) 33=-588(F) 34=-588(F) 35=-588(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	A2	Hip	1	1	147385479

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

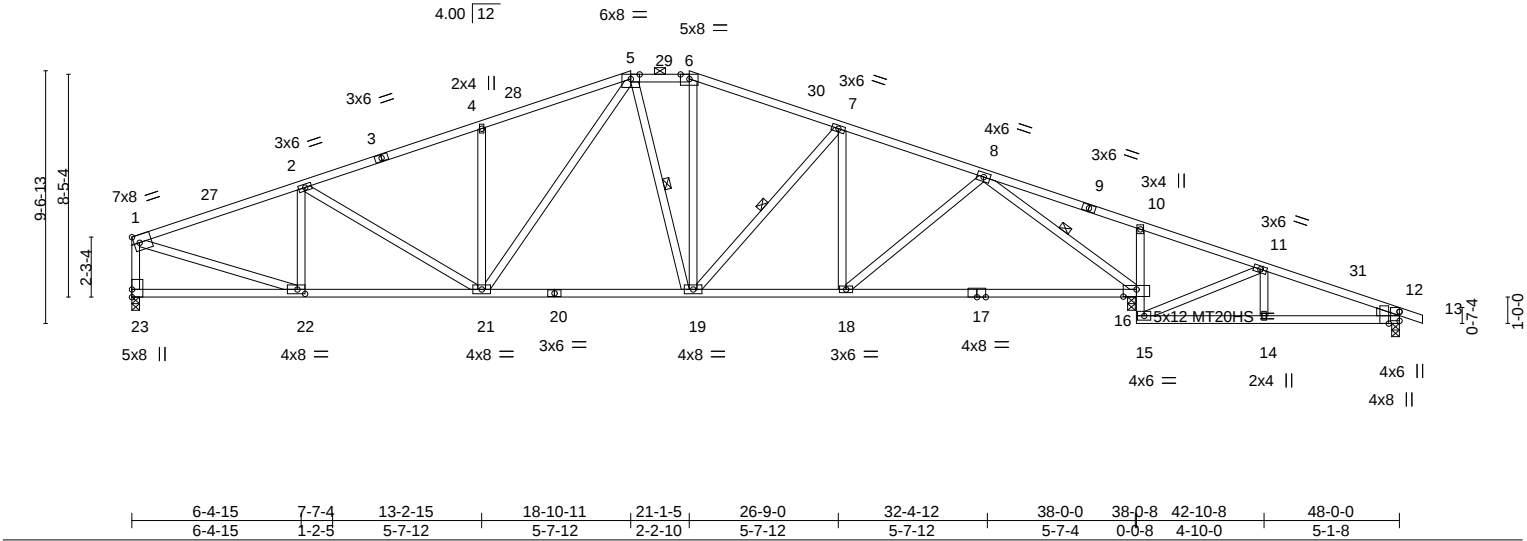
8.430 s Jun 2 2021
MiTek Industries, Inc.
Tue Aug 10 09:35:25 2021
Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-OvcgdWshC8f9SYNSJ7F90bdDxJZuVnV3b09m9lypHzG

6-4-15
7-7-4
13-2-15
18-10-11
21-1-5
26-9-0
32-4-12
38-0-8
42-10-8
48-0-0
48-10-8

6-4-15
1-2-5
5-7-12
5-7-12
2-2-10
5-7-12
5-7-12
5-7-12
4-10-0
5-1-8
0-10-8

Scale = 1:87.2



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 0.44	Vert(LL)	-0.31 16-18	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.65 16-18	>706	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.09 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2 *Except*	2-0-0 oc purlins (4-0-15 max.): 5-6.
16-17: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-19, 7-19, 8-16
WEDGE	
Right: 2x4 SPF No.2	

REACTIONS. (size) 23=0-3-8, 12=0-3-8, 16=0-3-8
Max Horz 23=-190(LC 13)
Max Uplift 23=-332(LC 8), 12=-149(LC 9), 16=-403(LC 9)
Max Grav 23=1678(LC 1), 12=395(LC 26), 16=2314(LC 1)

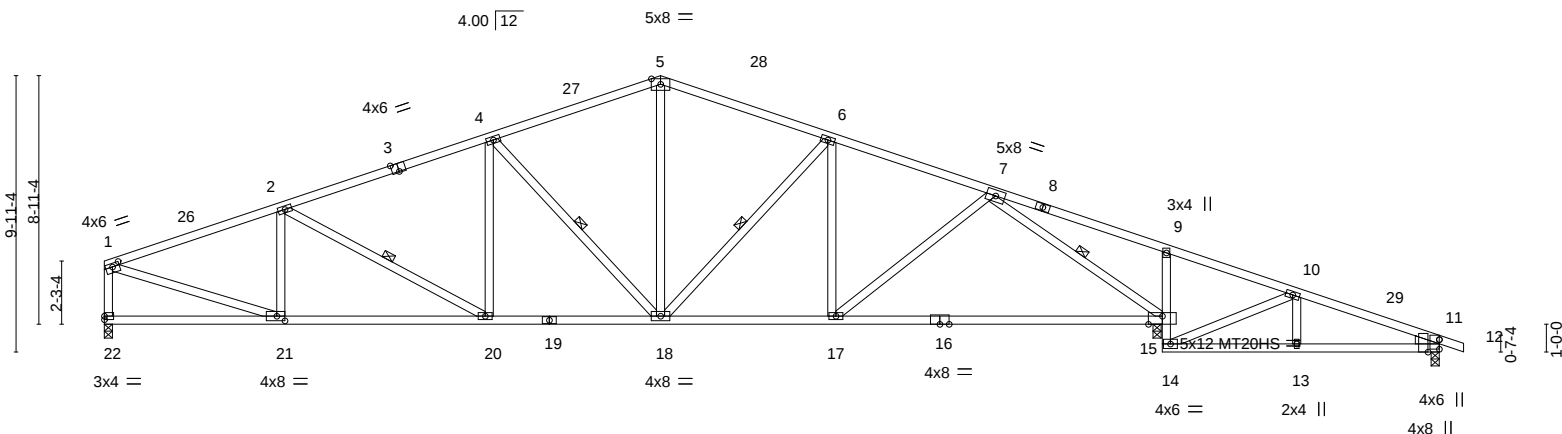
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2387/583, 2-4=-2488/665, 4-5=-2472/752, 5-6=-1897/624, 6-7=-2066/632,
7-8=-2223/624, 8-10=0/395, 10-11=0/382, 11-12=-402/197, 1-23=-1612/408
BOT CHORD 21-22=-400/2204, 19-21=-274/1910, 18-19=-327/2055, 16-18=-323/1651, 15-16=-41/283,
10-16=-402/180, 14-15=-130/343, 12-14=-130/343
WEBS 4-21=-440/214, 5-19=-275/225, 6-19=-84/349, 7-19=-344/171, 8-18=-6/530,
11-15=-657/162, 8-16=-2480/498, 5-21=-228/739, 2-22=-559/209, 1-22=-490/2210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 18-10-11, Exterior(2E) 18-10-11 to 21-1-5, Exterior(2R) 21-1-5 to 25-4-3, Interior(1) 25-4-3 to 48-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=332, 12=149, 16=403.
 - This truss 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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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:27 2021 Page 1
 ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-LikR2CtXklwthsXqRYId50iYU7DJzfkM2KetEdyPhzE
 6-4-2 7-11-11 13-11-13 20-0-0 26-0-3 32-0-5 38-0-8 42-10-8 48-0-0 48-10-8
 6-4-2 1-7-8 6-0-3 6-0-3 6-0-3 6-0-3 6-0-3 4-10-0 5-1-8 0-10-8
 Scale = 1:82.8



	6-4-2	7-11-11	13-11-13	20-0-0	26-0-3	32-0-5	38-0-0	38-0-8	42-10-8	48-0-0	
	6-4-2	1-7-8	6-0-3	6-0-3	6-0-3	6-0-3	5-11-11	0-0-8	4-10-0	5-1-8	
Plate Offsets (X,Y)--	[1:0-3-0,0-1-8], [3:0-3-0,Edge], [11:0-5-6,Edge], [15:0-6-0,Edge], [21:0-3-8,0-2-0]										
LOADING (psf)	SPACING 2-0-0			CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15			TC 0.51		Vert(LL) -0.36 15-17 >999 240				MT20	197/144
TCDL 10.0	Lumber DOL 1.15			BC 0.91		Vert(CT) -0.75 15-17 >611 180				MT20HS	148/108
BCLL 0.0	Rep Stress Incr YES			WB 0.74		Horz(CT) 0.10 15 n/a n/a					
BCDL 10.0	Code IRC2018/TPI2014			Matrix-AS						Weight: 212 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	15-16: 2x4 SP 2400F 2.0E	WEBS	1 Row at midpt 2-20, 4-18, 6-18, 7-15
WEBS	2x4 SPF No.2		
WEDGE			
Right: 2x4 SPF No.2			

REACTIONS. (size) 22=0-3-8, 11=0-3-8, 15=0-3-8
 Max Horz 22=-197(LC 13)
 Max Uplift 22=-324(LC 8), 11=-151(LC 9), 15=-392(LC 9)
 Max Grav 22=1678(LC 1), 11=397(LC 26), 15=2314(LC 1)

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

TOP CHORD
1-2=-2390/554, 2-4=-2471/628, 4-5=-1999/589, 5-6=-1995/593, 6-7=-2237/599,
7-9=0/388, 9-10=0/380, 10-11=-404/200, 1-22=-1617/397

BOT CHORD
20-21=-404/2210, 18-20=-335/2266, 17-18=-297/2063, 15-17=-319/1693, 14-15=-40/282,
9-15=-414/185, 13-14=-133/345, 11-13=-133/345

WEBS
4-20=0/276, 4-18=-726/233, 5-18=-193/819, 6-18=-480/197, 7-17=0/474,
10-14=-655/160, 7-15=-2495/474, 2-21=-555/214, 1-21=-479/2228

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 3x6 MT20 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) 22=324, 11=151, 15=392.
- 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.



August 11, 2021



WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	147385481
2895604	A4	Roof Special	3	1	Job Reference (optional)	

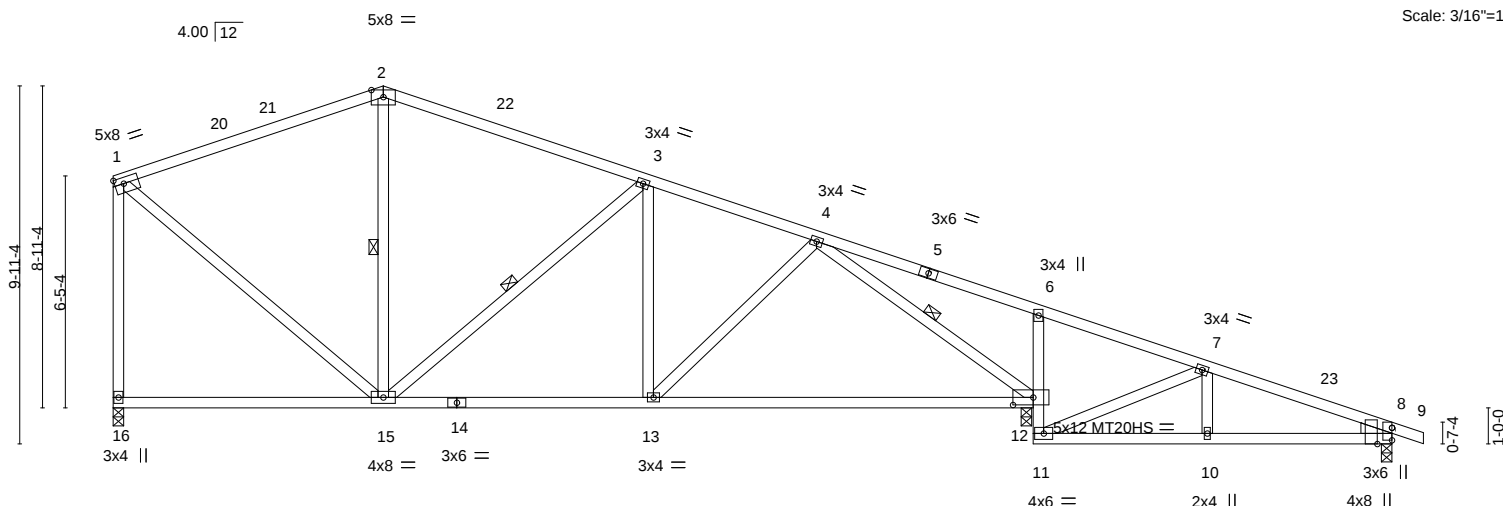
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-pUlpFYuaV32kJO61_FpseDFduXcjjBQVH_NQm4ypHzD

7-6-0	13-6-2	14-8-8	19-6-5	25-6-8	30-4-8	35-6-0	36-4-8
7-6-0	6-0-3	1-2-5	4-9-13	6-0-3	4-10-0	5-1-8	0-10-8

Scale: 3/16"=1'



7-6-0	14-8-8	17-1-8	25-6-0	25-6-8	30-4-8	35-6-0
7-6-0	7-2-8	2-5-0	8-4-8	0-0-8	4-10-0	5-1-8

Plate Offsets (X,Y)-- [1:Edge,0-2-0], [8:0-5-6,Edge], [12:0-6-12,0-2-8]

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 0.85	Vert(LL)	-0.30	12-13	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.60	12-13	>510	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.03	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Right: 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 2-15, 3-15, 4-12

REACTIONS.

(size) 16=0-3-8, 8=0-3-8, 12=0-3-8
Max Horz 16=-269(LC 8)
Max Uplift 16=-208(LC 9), 8=-154(LC 9), 12=-301(LC 9)
Max Grav 16=1122(LC 1), 8=436(LC 26), 12=1686(LC 1)

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

TOP CHORD 1-2=-827/307, 2-3=-832/315, 3-4=-1266/375, 7-8=-504/205, 1-16=-1050/335
BOT CHORD 15-16=-154/325, 13-15=-91/1159, 12-13=-150/1049, 11-12=-41/281, 6-12=-427/192,
10-11=-136/439, 8-10=-136/439
WEBS 1-15=-265/889, 3-15=-629/237, 7-11=-626/159, 4-12=-1447/225

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 36-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=208, 8=154, 12=301.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO
2895604	A5	Hip	1	1	147385482

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:29 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-HgsBSuvCGNAbx9hDYyk5BRosRw_vRZHeWe7_IWypHzC

6-4-11	8-7-4	14-3-0	17-0-0	19-10-12	21-11-7	25-6-8	30-4-8	35-6-0	36-4-8
6-4-11	2-2-10	5-7-12	2-9-0	2-10-12	2-0-11	3-7-1	4-10-0	5-1-8	0-10-8

Scale: 3/16"=1'

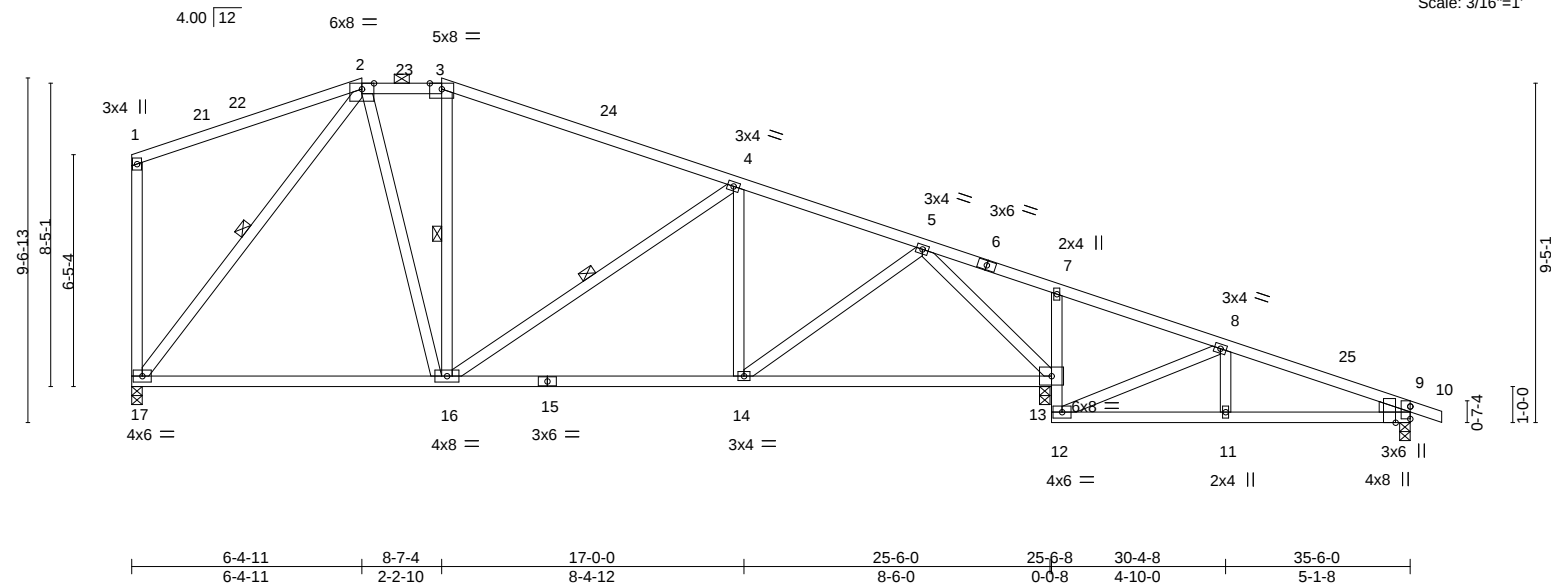


Plate Offsets (X, Y)--	[9:0-5-6, Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.14 16-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.28 16-17	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 162 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-9 max.): 2-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 2-17, 4-16

REACTIONS.

(size) 13=0-3-8, 9=0-3-8, 17=0-3-8
Max Horz 17=-275(LC 8)
Max Uplift 13=-315(LC 9), 9=-148(LC 9), 17=-216(LC 8)
Max Grav 13=1696(LC 1), 9=429(LC 26), 17=1119(LC 1)

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

TOP CHORD 2-3=-812/355, 3-4=-946/335, 4-5=-1300/385, 5-7=0/253, 8-9=-492/193
BOT CHORD 16-17=0/651, 14-16=-133/1198, 13-14=-116/780, 12-13=-46/288, 7-13=-313/140, 11-12=-126/428, 9-11=-126/428
WEBS 2-16=-173/678, 2-17=-1024/340, 4-16=-491/226, 8-12=-651/173, 5-14=-22/523, 5-13=-1407/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-4-11, Exterior(2E) 6-4-11 to 8-7-4, Exterior(2R) 8-7-4 to 12-10-3, Interior(1) 12-10-3 to 36-4-8 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) except (jt=lb) 13=315, 9=148, 17=216.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO	147385483
2895604	A6	Hip	1	1	Job Reference (optional)	

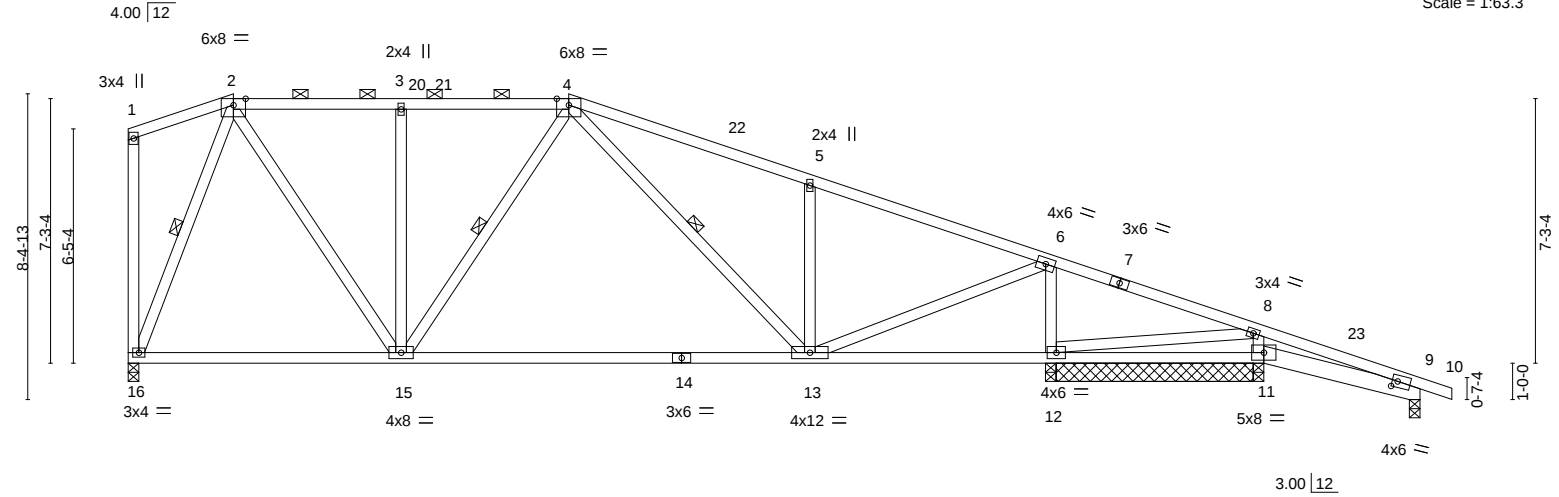
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:32 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-hFXK5vx4YIY9odQoD5too3QQS8yge0d5CcLevrypHz9

2-10-11	7-6-0	12-1-4	18-8-13	25-4-5	31-2-8	35-6-0	36-4-8
2-10-11	4-7-5	4-7-5	6-7-8	6-7-8	5-10-3	4-3-8	0-10-8

Scale = 1:63.3



2-10-11	7-6-0	12-1-4	18-8-13	25-2-8	25-4-5	30-11-0	31-2-8	35-6-0
2-10-11	4-7-5	4-7-5	6-7-8	6-5-11	0-1-13	5-6-11	0-3-8	4-3-8

Plate Offsets (X,Y)-- [9:0-1-12,0-2-0]

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 0.43	Vert(LL)	-0.32 13-15	>944	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.66 13-15	>458	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 161 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-15, 2-16, 4-13

REACTIONS.

All bearings 5-5-0 except (jt=length) 9=0-3-8, 16=0-3-8.
(lb) - Max Horz 16=-290(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11, 9 except 12=-332(LC 9), 16=-239(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 9 except 11=379(LC 26), 11=378(LC 1), 12=1554(LC 1), 12=1554(LC 1), 16=1098(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-855/321, 3-4=-855/322, 4-5=-1217/400, 5-6=-1215/310, 6-8=-45/309
BOT CHORD 15-16=0/409, 13-15=-52/954
WEBS 2-15=-216/869, 3-15=-372/156, 5-13=-479/232, 6-13=-239/1416, 6-12=-1414/360, 8-11=-258/124, 2-16=-1039/370

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-10-11, Exterior(2R) 2-10-11 to 7-1-10, Interior(1) 7-1-10 to 12-1-4, Exterior(2R) 12-1-4 to 16-4-3, Interior(1) 16-4-3 to 36-4-8 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.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 9 except (jt=lb) 12=332, 16=239.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO	147385484
2895604	A7	Half Hip	1	1	Job Reference (optional)	

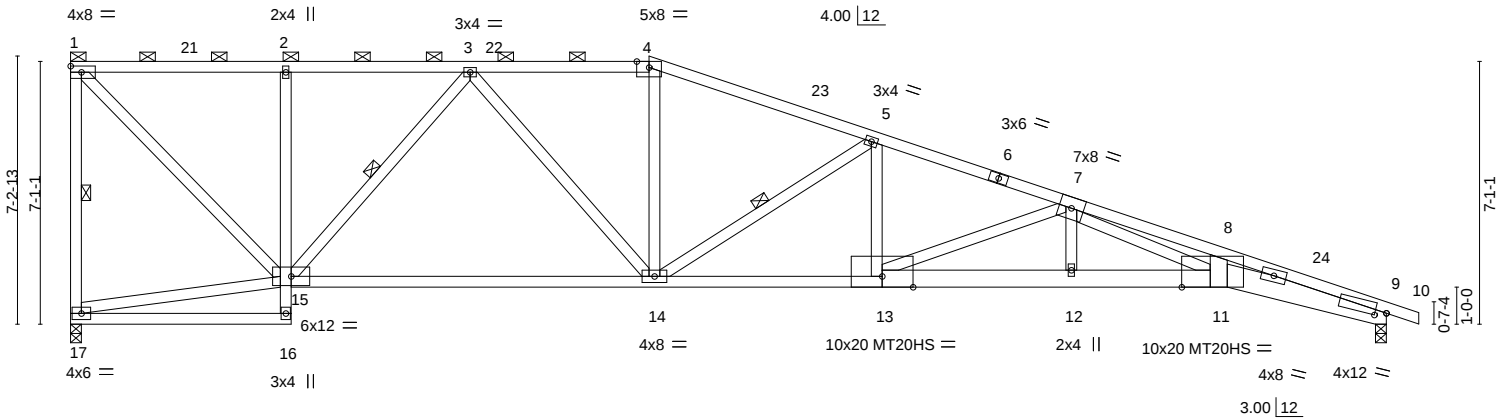
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:34 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-def4WbzK4vot1xZALWwGuUVfFxbn6naOfwql_jypHz7

5-11-7	10-9-6	15-7-5	21-9-0	27-0-0	31-2-8	35-6-0	36-4-8
5-11-7	4-9-15	4-9-15	6-1-11	5-3-0	4-2-8	4-3-8	0-10-8

Scale = 1:62.2



5-11-7	15-7-5	21-9-0	27-0-0	30-8-15	31-2-8	35-6-0
5-11-7	9-7-14	6-1-11	5-3-0	3-8-15	0-5-9	4-3-8

Plate Offsets (X,Y)-- [9:0-3-10,0-1-8], [11:5-6-4,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 0.86	Vert(LL)	-0.45 11-12	>951	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.80 11-12	>528	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.29 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-6-15 max.): 1-4.
6-10: 2x4 SPF 1650F 1.5E	
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
9-11: 2x8 SP 2400F 2.0E, 11-13: 2x6 SPF 2100F 1.8E	WEBS 1 Row at midpt 1-17, 3-15, 5-14
WEBS 2x4 SPF No.2 *Except*	
8-11: 2x6 SPF No.2	

REACTIONS. (size) 17=0-3-8, 9=0-3-8
Max Horz 17=303(LC 10)
Max Uplift 17=373(LC 9), 9=386(LC 9)
Max Grav 17=1590(LC 1), 9=1653(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1541/361, 1-2=-1349/375, 2-3=-1355/373, 3-4=-2419/624, 4-5=-2618/630,
5-7=-3746/846, 7-8=-6985/1523, 8-9=-7049/1495
BOT CHORD 2-15=-407/178, 14-15=-292/2039, 13-14=-624/3476, 12-13=-1005/5123,
11-12=-1006/5138, 9-11=-1360/6720
WEBS 15-17=-125/328, 1-15=-393/1906, 3-15=-1050/321, 3-14=-159/580, 4-14=-38/438,
5-14=-1250/353, 5-13=-99/659, 7-13=-1763/411, 7-12=-54/552, 7-11=-376/1669

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-7-5, Exterior(2R) 15-7-5 to 19-10-3, Interior(1) 19-10-3 to 36-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=373, 9=386.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	A8	Half Hip	1	1	147385485

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:37 2021 Page 1
ID:E5coXNwXg6dPCXgLPtio7ky4NV8-2DLD8d?DNqASuOI0eTzV778L9dJJESqLu3Pb2ypHz4

5-11-7

5-11-7

12-6-6

6-6-15

19-1-5

6-6-15

25-1-14

6-0-10

31-2-8

6-0-10

35-6-0

4-3-8

36-4-8

0-10-8

Scale = 1:63.0

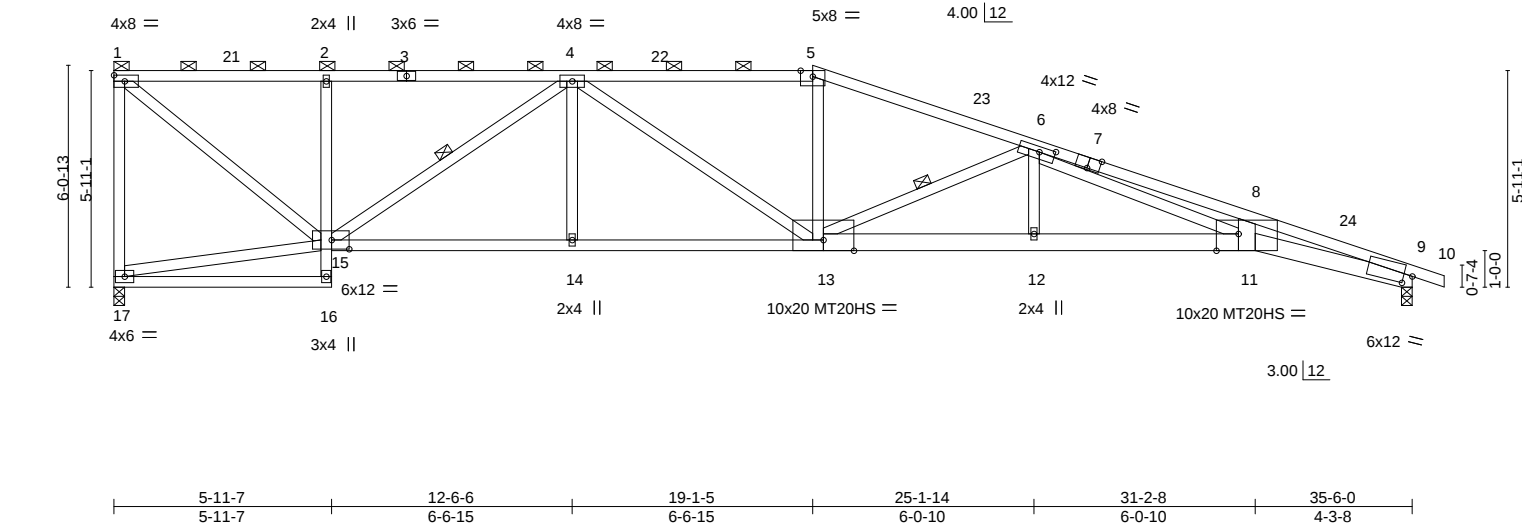


Plate Offsets (X,Y)-- [6:0-5-2,0-1-12], [7:0-4-0,Edge], [9:0-2-12,0-2-14], [11:0-7-4,Edge], [15:0-5-12,0-3-0]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.52	11-12	>816	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.94	11-12	>451	180	MT20HS	148/108	
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.33	9	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 169 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-7: 2x4 SPF 1650F 1.5E, 7-10: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-5-11 max.): 1-5.
BOT CHORD 2x4 SPF No.2 *Except* 9-11,11-13: 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 8-11: 2x6 SPF No.2	WEBS 1 Row at midpt 4-15, 6-13

REACTIONS.	(size) 17=0-3-8, 9=0-3-8 Max Horz 17=251(LC 10) Max Uplift 17=369(LC 9), 9=390(LC 9) Max Grav 17=1590(LC 1), 9=1653(LC 1)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-17=-1527/364, 1-2=-1678/431, 2-4=-1695/433, 4-5=-3023/753, 5-6=-3285/770, 6-8=-7032/1581, 8-9=-7106/1526
BOT CHORD	2-15=-457/195, 14-15=-472/2836, 13-14=-472/2836, 12-13=-891/4550, 11-12=-891/4558, 9-11=-1395/6730
WEBS	15-17=-147/257, 1-15=-457/2140, 4-15=-1386/347, 4-14=0/289, 5-13=-71/618, 6-13=-1657/420, 6-12=-24/456, 6-11=-537/2305

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 19-1-5, Exterior(2R) 19-1-5 to 23-4-3, Interior(1) 23-4-3 to 36-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 11 = 0%, joint 11 = 0%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=369, 9=390.
 - This truss 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.



August 11,2021

Job Reference (optional)

Scale = 1:62.0

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385487
2895604	A10	Half Hip Girder	1	2	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:23 2021 Page 2
ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-SXVwCqRgXPRDED3CiDhxAYnHWwz1sCm7igf5syphZl

NOTES-

- 9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=1248, 11=932.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-4-3 from the left end to 3-4-3 to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 5-4-3 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 511 lb down and 244 lb up at 26-1-5 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, 20-22=-20, 13-19=-20, 13-23=-20

Concentrated Loads (lb)

Vert: 6=-138(F) 7=-138(F) 14=-511(F) 27=-75(F) 28=-138(F) 29=-138(F) 30=-138(F) 31=-138(F) 32=-138(F) 33=-138(F) 34=-138(F) 35=-554(F) 36=-554(F)
37=-751(F) 38=-35(F)

 **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 2895604	Truss B1	Truss Type Roof Special	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385488
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:40 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-So0Lme15glY1ls1Khm1g7lIdMgeWcWG1rH3BNypHz1

4-10-4	5-7-12	11-0-0	17-1-12	25-1-12	30-0-0	30-10-8
4-10-4	0-9-8	5-4-4	6-1-12	8-0-0	4-10-5	0-10-8

Scale = 1:55.2

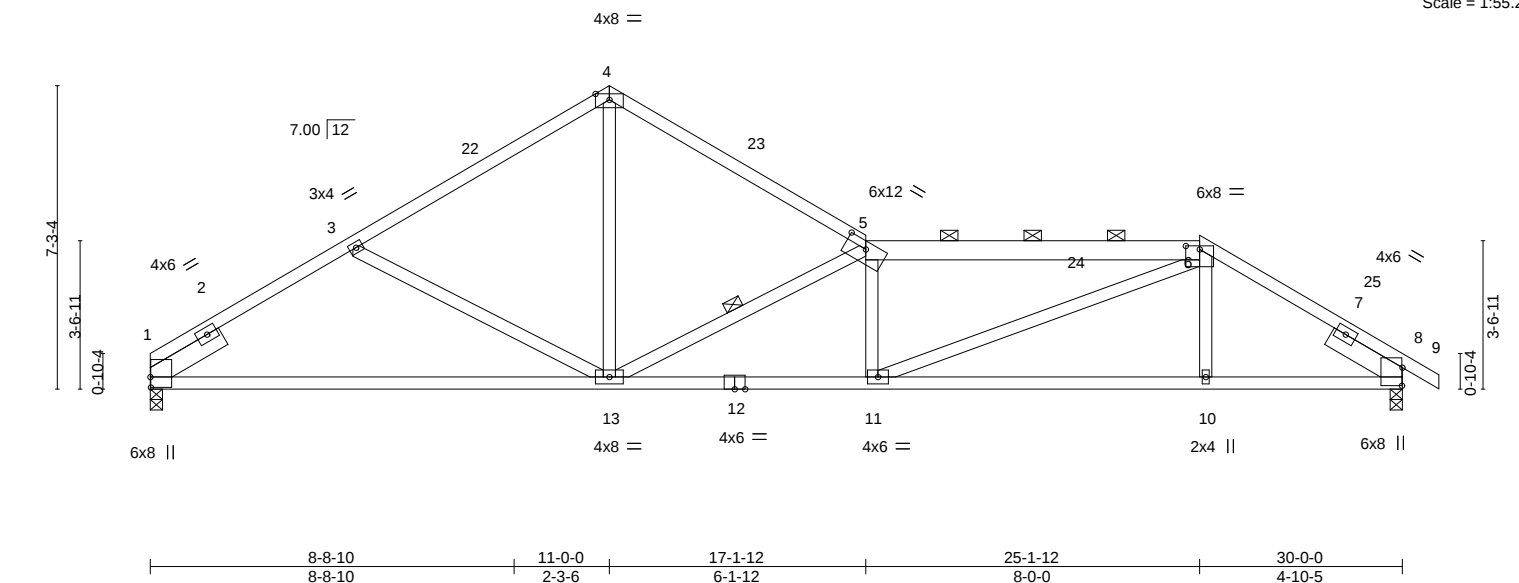


Plate Offsets (X,Y)-- [1:0-3-0,0-0-2], [5:0-6-0,0-2-2], [6:0-4-0,0-1-0], [8:0-5-3,0-0-2]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.25 13-16 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.52 13-16 >697 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.11 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
5-6: 2x6 SPF No.2	2-0-0 oc purlins (3-0-12 max.): 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-13
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0	

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=-176(LC 8)
Max Uplift 1=-186(LC 12), 8=-277(LC 13)
Max Grav 1=1349(LC 1), 8=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1973/344, 3-4=-1713/328, 4-5=-1729/319, 5-6=-3053/572, 6-8=-2019/389
BOT CHORD 1-13=-297/1633, 11-13=-447/3072, 10-11=-247/1668, 8-10=-244/1671
WEBS 5-11=-437/137, 6-11=-214/1502, 4-13=-171/1187, 5-13=-1907/468, 3-13=-349/220

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 25-1-12, Exterior(2R) 25-1-12 to 28-1-12, Interior(1) 28-1-12 to 30-10-8 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) except (jt=lb) 1=186, 8=277.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO	147385489
2895604	B2	Roof Special	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:43 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-tNiUOg4_zgxbcJlvNvaNIONCyaizjxMikpWjoiyphz_

5-0-14	9-10-5	12-1-12	16-0-0	24-0-0	30-0-0	30-10-8
5-0-14	4-9-6	2-3-7	3-10-5	8-0-0	6-0-0	0-10-8

Scale = 1:53.3

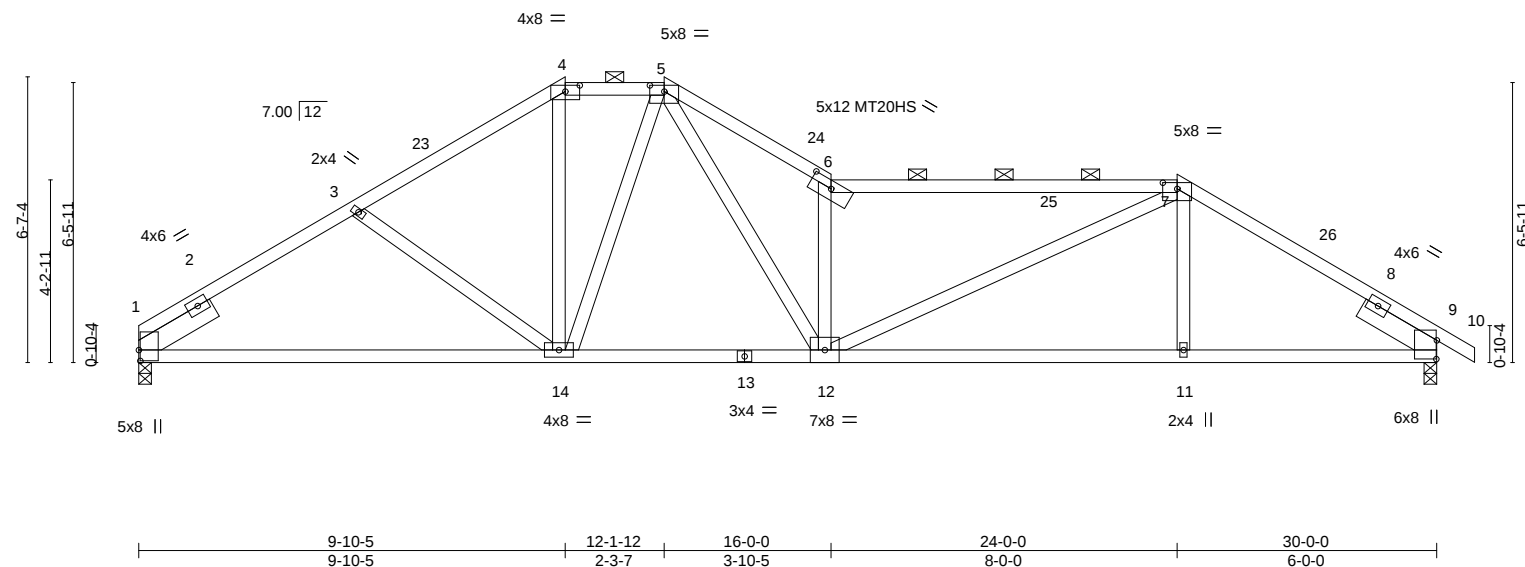


Plate Offsets (X,Y)--										[1:0-3-0,0-0-6], [4:0-4-0,0-1-11], [5:0-4-0,0-1-11], [6:0-6-0,0-2-2], [7:0-4-0,0-1-11], [9:0-5-3,0-0-2]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES		GRIP							
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.19 11-12	>999	240	MT20	197/144								
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.43 11-12	>831	180	MT20HS	148/108								
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.10 9	n/a	n/a										
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS															
										Weight: 131 lb	FT = 20%								

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
6-7: 2x4 SP 2400F 2.0E	2-0-0 oc purlins (3-4-2 max.): 4-5, 6-7.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-157(LC 8)
Max Uplift 1=-176(LC 12), 9=-272(LC 13)
Max Grav 1=1349(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1965/353, 3-4=-1748/334, 4-5=-1455/329, 5-6=-3047/607, 6-7=-2623/477,
7-9=-2021/383
BOT CHORD 1-14=-255/1616, 12-14=-139/1567, 11-12=-227/1670, 9-11=-225/1673
WEBS 4-14=-91/526, 6-12=-1961/483, 7-12=-157/1061, 7-11=0/259, 5-14=-422/137,
5-12=-440/1921

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-10-5, Exterior(2E) 9-10-5 to 12-1-12, Exterior(2R) 12-1-12 to 15-1-12, Interior(1) 15-1-12 to 24-0-0, Exterior(2R) 24-0-0 to 27-0-0, Interior(1) 27-0-0 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=176, 9=272.
- This truss 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:44 2021 Page 1

ID: F5cpXNwXq6dPCXql Ptl07ky4NV8-l 7Gsc05ck 3SETK5wc5cIhvyMiz26SNVsyTEH.18vpHvz

22-10-5	30-0-0	30-10-8
8-0-0	7-1-11	0-10-8

Scale = 1:53.4

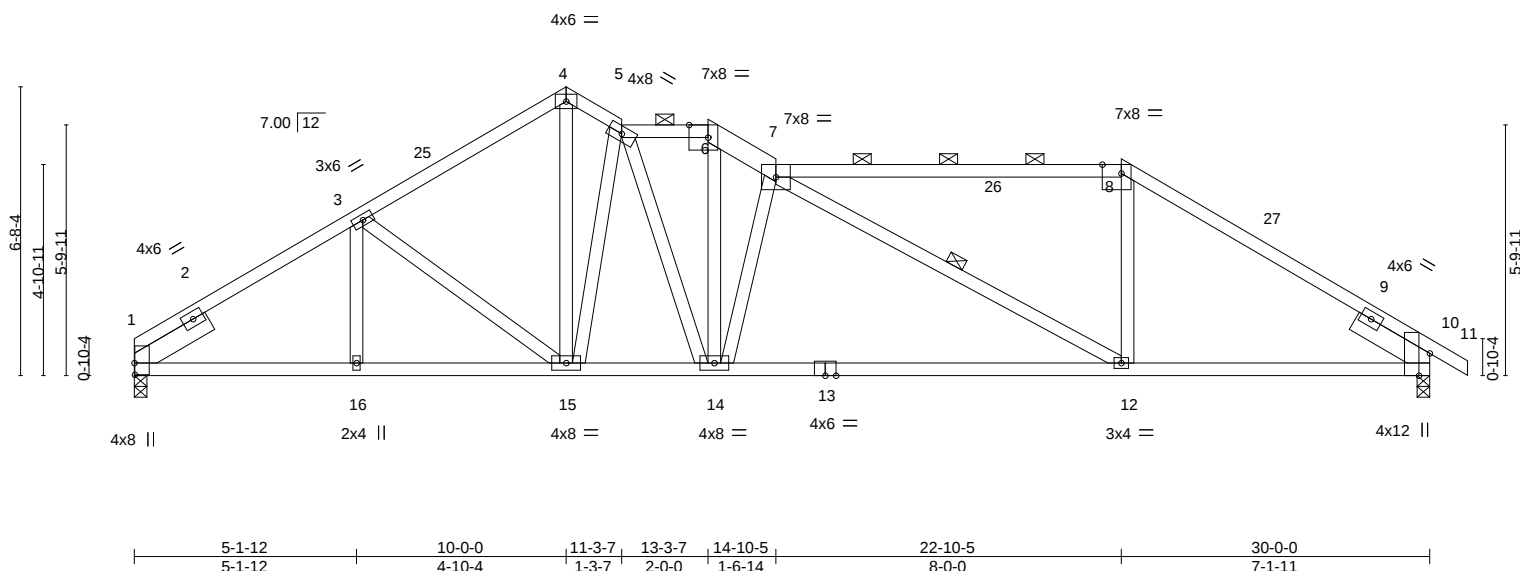


Plate Offsets (X,Y)-- [1:0-3-4,0-0-2], [6:0-5-5,Edge], [8:0-5-5,Edge], [10:0-6-3,Edge]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.24	12-14	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.54	12-14	>664	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	10	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 139 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x6 SPF No.2, 7-8: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0

BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-4-13 max.): 5-6, 7-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-12

REACTIONS. (size) 1=0-3-8, 10=0-3-8
 Max Horz 1=-161(LC 8)
 Max Uplift 1=-177(LC 12), 10=-285(LC 13)
 Max Gray 1=1349(LC 1), 10=1412(LC 1)

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

TOP CHORD 1-3=-197/325, 3-4=-1719/352, 4-5=-1627/357, 5-6=-1860/394, 6-7=-2277/473,
7-8=-1626/405, 8-10=-1998/399

BOT CHORD 1-16=-243/1617, 15-16=-243/1617, 14-15=-168/1699, 12-14=-295/2265, 10-12=-220/1640

WEBS 5-14=-106/504, 6-14=-204/987, 7-14=-1290/396, 7-12=-736/155, 8-12-0/543,
4-15=-279/1319, 5-15=-1153/285, 3-15=-306/165

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2E) 10-0-0 to 11-3-7, Interior(1) 11-3-7 to 13-3-7, Exterior(2E) 13-3-7 to 14-10-5, Interior(1) 14-10-5 to 22-10-5, Exterior(2R) 22-10-5 to 25-10-5, Interior(1) 25-10-5 to 30-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=177, 10=285.
- 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/TP1 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2021

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

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	147385491
2895604	B4	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

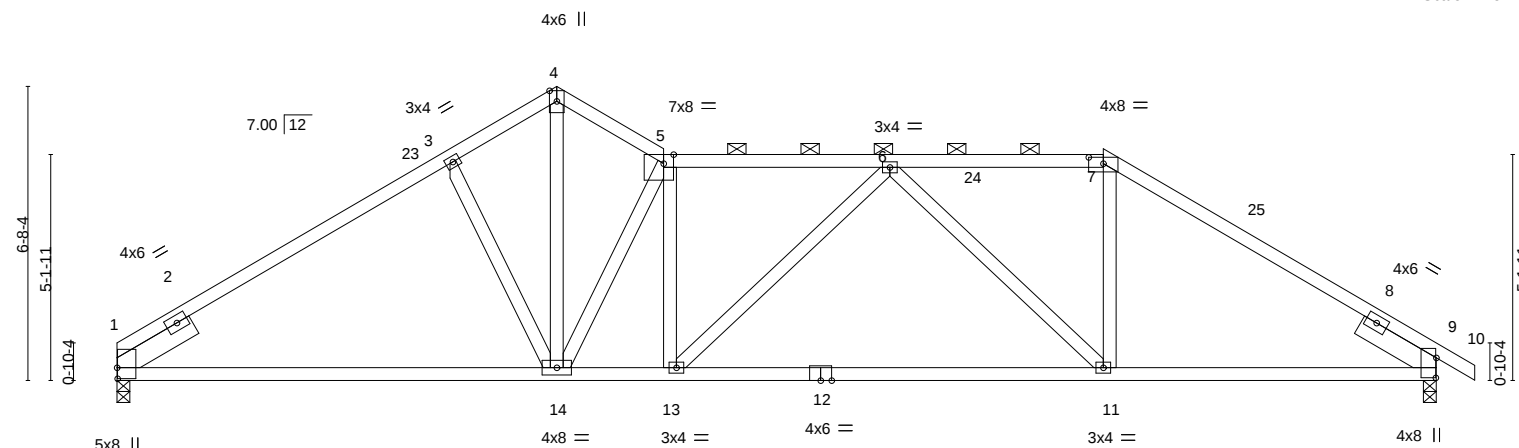
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:46 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-HyOc1i6sFbJATnUU2184N0?i?nkTwF59QnkNO1ypHx

5-1-12	7-6-14	10-0-0	12-5-3	17-6-15	22-5-3	30-0-0	30-10-8
5-1-12	2-5-2	2-5-2	2-5-2	5-1-12	4-10-4	7-6-14	0-10-8

Scale = 1:52.4



6-4-5	10-0-0	12-5-3	22-5-3	30-0-0
6-4-5	3-7-11	2-5-2	10-0-0	7-6-14

Plate Offsets (X,Y)-- [1:0-3-0,0-0-2], [5:0-2-11,Edge], [7:0-4-0,0-1-11], [9:0-5-7,0-0-2]

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 0.87	Vert(LL)	-0.26 11-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.58 11-13	>620	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 125 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 (3-9-2 max.): 5-7.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-161(LC 10)
Max Uplift 1=-177(LC 12), 9=-285(LC 13)
Max Grav 1=1349(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1916/335, 3-4=-1718/354, 4-5=-1725/348, 5-6=-2051/400, 6-7=-1586/398, 7-9=-1972/390
BOT CHORD 1-14=-203/1556, 13-14=-205/2045, 11-13=-280/2033, 9-11=-204/1602
WEBS 6-11=-625/205, 7-11=-46/600, 4-14=-323/1582, 5-14=-1382/329, 3-14=-348/232

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2E) 10-0-0 to 12-5-3, Interior(1) 12-5-3 to 22-5-3, Exterior(2R) 22-5-3 to 25-5-3, Interior(1) 25-5-3 to 30-10-8 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) except (jt=lb) 1=177, 9=285.
 - This truss 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.



August 11,2021

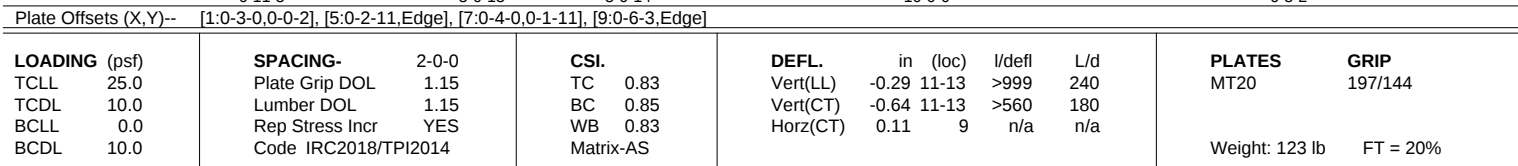
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:48 2021 Page 1
 ID:E5coXNwXg6dPCXgLptio7ky4NV8-DKVNSN87nCZuj4et9SAYSr438bP6O83Rt5DUSvypHyv
 5-1-12 6-5-2 10-0-0 13-6-14 18-8-10 23-6-14 30-0-0 30-10-8
 5-1-12 1-3-6 3-6-14 3-6-14 5-1-12 4-10-4 6-5-2 0-10-8



REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-161(LC 8)
 Max Uplift 1=-177(LC 12), 9=-285(LC 13)
 Max Grav 1=1349(LC 1), 9=1412(LC 1)

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

TOP CHORD	1-3=-1935/333, 3-4=-1720/346, 4-5=-1735/336, 5-6=-2421/458, 6-7=-1619/389, 7-9=-2004/393
BOT CHORD	1-14=-227/1582, 13-14=-291/2417, 11-13=-347/2279, 9-11=-223/1641
WEBS	6-13=-29/252, 6-11=-862/200, 7-11=-40/693, 4-14=-259/1437, 5-14=-1526/356, 3-14=-294/194

- NOTES:**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 23-6-14, Exterior(2R) 23-6-14 to 26-6-14, Interior(1) 26-6-14 to 30-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=177, 9=285.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2021

Job 2895604	Truss B6	Truss Type Roof Special	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385493
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:50 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-9jd7s39NJqpcyOoFhtC0Xs9PHO3is3YkLPibXoyphYt

Job Reference (optional)

Scale = 1:52.3

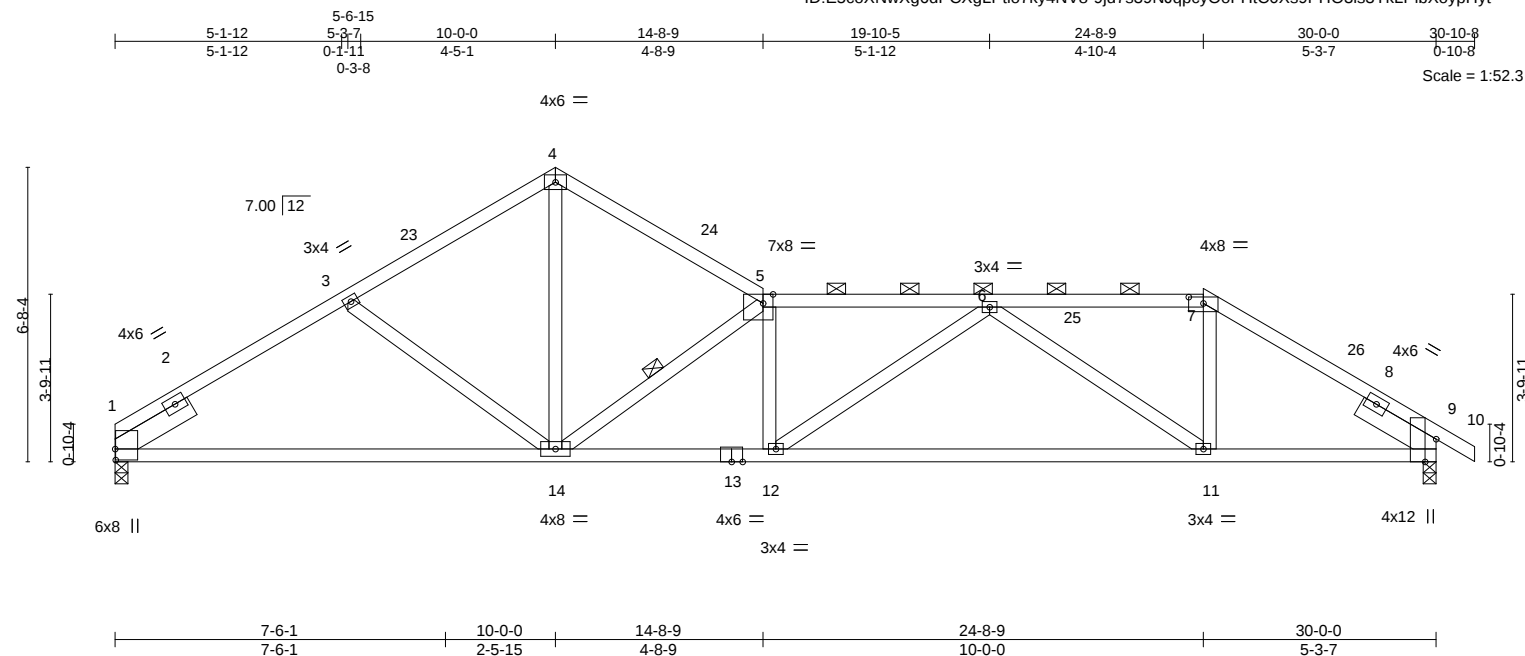


Plate Offsets (X,Y)--		[1:0-3-0,0-0-2], [5:0-2-11,Edge], [7:0-4-0,0-1-11], [9:0-6-3,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.79	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.30 11-12 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.69 11-12 >524 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.12 9 n/a n/a
	Code IRC2018/TPI2014		
		Weight: 121 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 (3-1-5 max.): 5-7.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0	WEBS 1 Row at midpt 5-14

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-161(LC 8)
Max Uplift 1=-177(LC 12), 9=-285(LC 13)
Max Grav 1=1349(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1956/336, 3-4=-1723/342, 4-5=-1756/327, 5-6=-2896/537, 6-7=-1639/375, 7-9=-2027/391
BOT CHORD 1-14=-253/1608, 12-14=-398/2897, 11-12=-427/2583, 9-11=-238/1669
WEBS 6-12=-40/387, 6-11=-1157/234, 7-11=-62/779, 4-14=-218/1334, 5-14=-1825/417, 3-14=-283/187

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 24-8-9, Exterior(2R) 24-8-9 to 27-8-9, Interior(1) 27-8-9 to 30-10-8 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) except (jt=lb) 1=177, 9=285.
 - This truss 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.



August 11,2021

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/HAWTHORN RIDGE#156/MO	147385494
2895604	B7	Roof Special	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:51 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-evBV4PA?47xTaYMRajF44ianoOkbTQuZ3S83EypHys

4-1-11	5-1-12	10-0-0	15-10-5	21-0-1	25-10-5	30-0-0	30-10-8
4-1-11	1-0-1	4-10-4	5-10-5	5-1-12	4-10-4	4-1-11	0-10-8

Scale = 1:52.3

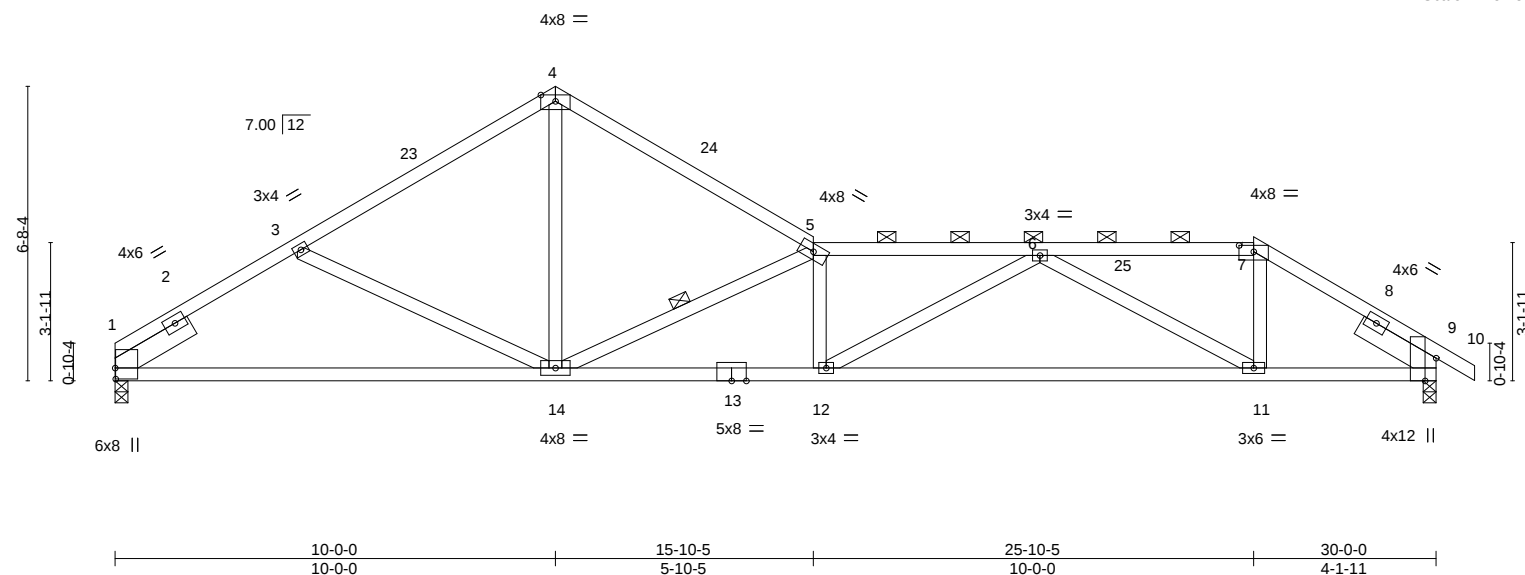


Plate Offsets (X,Y)-- [1:0-3-0,0-0-2], [7:0-4-0,0-1-11], [9:0-6-3,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.31 11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.72 11-12	>497	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.12 9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 121 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 (2-8-13 max.): 5-7.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SPF No.2 2-0-0, Right 2x6 SPF No.2 2-0-0	WEBS 1 Row at midpt 5-14

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-161(LC 8)
Max Uplift 1=-177(LC 12), 9=-285(LC 13)
Max Grav 1=1349(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1974/340, 3-4=-1751/341, 4-5=-1785/320, 5-6=-3550/649, 6-7=-1639/357, 7-9=-2035/383
BOT CHORD 1-14=-284/1629, 12-14=-539/3556, 11-12=-526/2988, 9-11=-247/1680
WEBS 3-14=-294/197, 4-14=-183/1253, 5-14=-2347/524, 6-12=-55/646, 6-11=-1554/325, 7-11=-78/859

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 25-10-5, Exterior(2R) 25-10-5 to 28-10-5, Interior(1) 28-10-5 to 30-10-8 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) except (jt=lb) 1=177, 9=285.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO	147385495
2895604	B8	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:53 2021 Page 1
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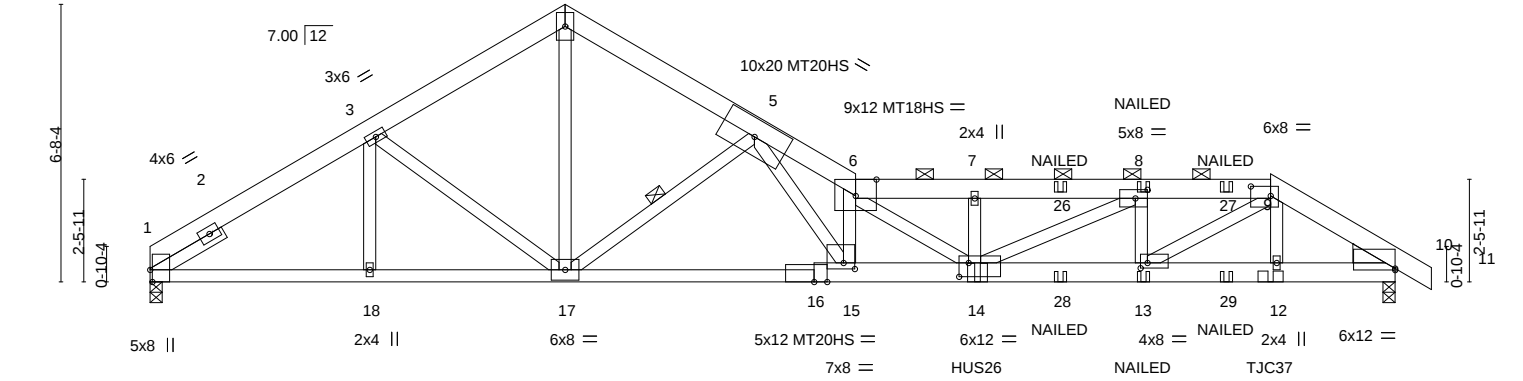
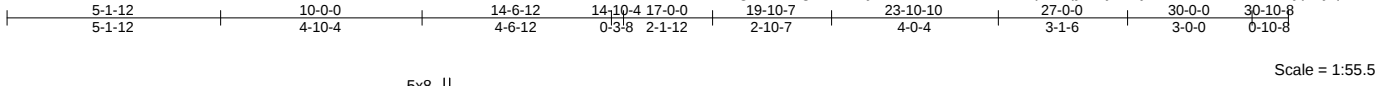


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [6:0-6-0,Edge], [8:0-3-8,0-2-8], [9:0-5-12,0-2-12], [10:0-0-0,0-0-7], [13:0-2-0,0-1-8], [14:0-2-12,0-4-0], [15:0-3-4,0-1-12], [16:0-3-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.45 14-15	>802	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.80 15-17	>450	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.12 10	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 165 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins, except
4-6,6-9: 2x6 SPF 2100F 1.8E	2-0-0 oc purlins (2-9-12 max.): 6-9.
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied or 7-6-15 oc bracing.
10-16: 2x6 SP 2400F 2.0E	WEBS 1 Row at midpt 5-17
WEBS 2x4 SPF No.2 *Except*	
5-15: 2x4 SP 2400F 2.0E	
WEDGE	
Right: 2x6 SP No.2	
SLIDER Left 2x4 SPF No.2 2-0-0	

REACTIONS.	(size) 1=0-3-8, 10=0-3-8
	Max Horz 1=-161(LC 4)
	Max Uplift 1=-311(LC 8), 10=-662(LC 9)
	Max Grav 1=1874(LC 1), 10=2800(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-2921/522, 3-4=-2706/577, 4-5=-2746/559, 5-6=-9884/2035, 6-7=-9416/2025, 7-8=-9414/2024, 8-9=-6975/1592, 9-10=-4314/1018
BOT CHORD	1-18=-437/2405, 17-18=-437/2405, 15-17=-902/4926, 14-15=-1725/8868, 13-14=-1506/6973, 12-13=-811/3655, 10-12=-810/3645
WEBS	3-17=-316/239, 4-17=-463/2299, 6-15=-5410/1203, 5-17=-3344/811, 5-15=-1355/6535, 7-14=-409/153, 8-13=-1773/439, 9-13=-831/3969, 6-14=-587/788, 8-14=-484/2731

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=311, 10=662.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 19-11-4 from the left end to connect truss(es) to front face of bottom chord.
 - 10) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 27-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 29.7 deg.to the right, sloping 0.0 deg. down.
- Continued on page 2 where hanger is in contact with lumber.



August 11, 2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385495
2895604	B8	Roof Special Girder	1	1	Job Reference (optional)	

- NOTES-**
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 6-9=-70, 9-11=-70, 19-23=-20

Concentrated Loads (lb)

Vert: 12=-211(F) 14=-1184(F) 8=-93(F) 13=-80(F) 26=-93(F) 27=-93(F) 28=-80(F) 29=-80(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	147385496
2895604	B9	Common	2	1		

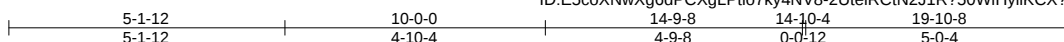
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:54 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-2UteiRCtN2J1R?50WiHyiiKCX?VTo?HKF1gogZypHyp

Job Reference (optional)



4x6 =

Scale = 1:42.9

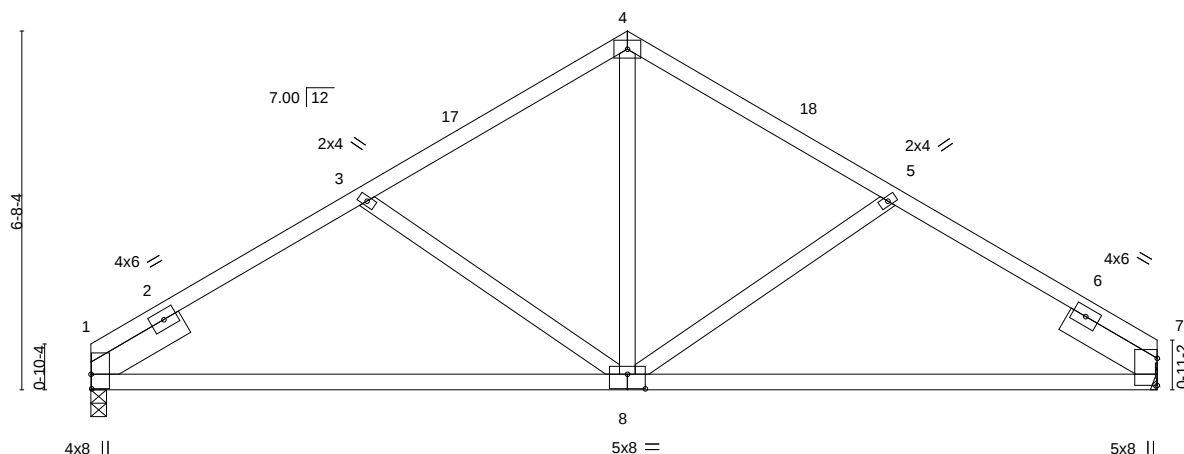


Plate Offsets (X,Y)--	[1:0-3-4,0-0-2], [8:0-4-0,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.12	8-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.25	8-11	>950	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 77 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 2-0-0, Right 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 7=Mechanical
 Max Horz 1=152(LC 9)
 Max Uplift 1=-142(LC 12), 7=-141(LC 13)
 Max Grav 1=894(LC 1), 7=894(LC 1)

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

TOP CHORD 1-3=-1188/223, 3-4=-940/199, 4-5=-938/199, 5-7=-1172/221
 BOT CHORD 1-8=-218/975, 7-8=-124/955
 WEBS 3-8=-323/199, 4-8=-65/515, 5-8=-303/195

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=142, 7=141.
- 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.



August 11, 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

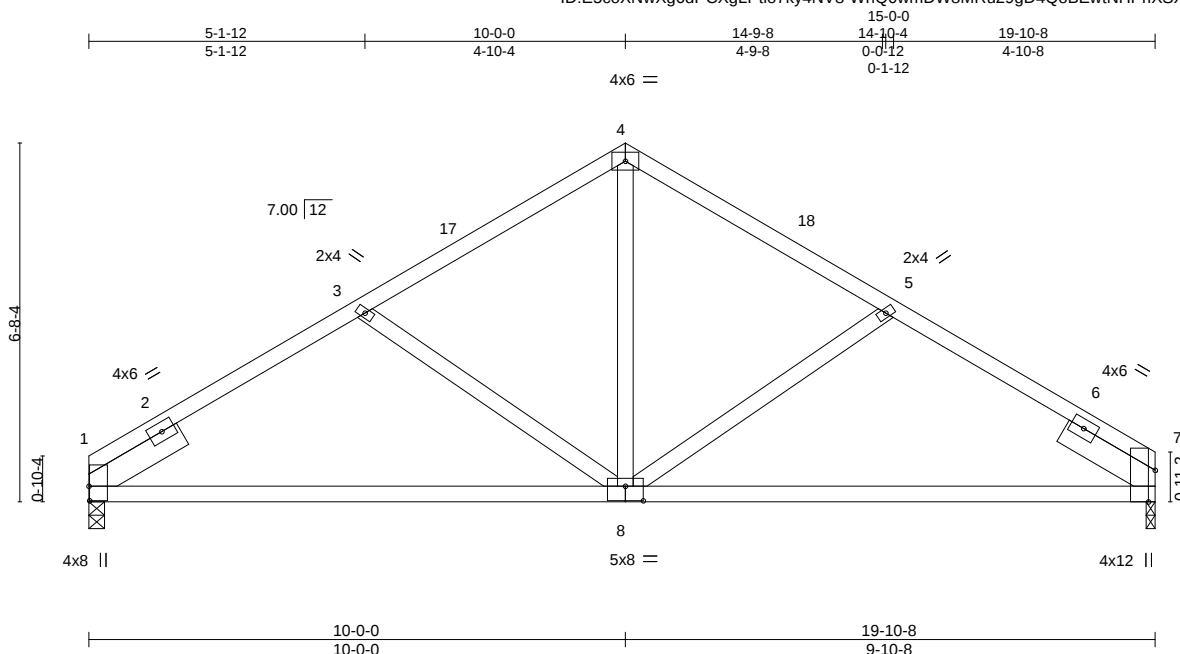
Job 2895604	Truss B9A	Truss Type Common	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385497
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:55 2021 Page 1

ID:E5coXNwXg6dPCXgLPtio7ky4NV8-WhQ0wmDW8MRu29gD4QoBEwtNHPriXSXTUHQMC?ypHyo



Scale = 1:42.9

Plate Offsets (X,Y)--		[1:0-3-4,0-0-2], [7:0-7-1,Edge], [8:0-4-0,0-3-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(LL) -0.12 8-11 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.21	Vert(CT) -0.25 8-11 >950 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.03 7 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 77 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 2-0-0, Right 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 7=0-2-0
 Max Horz 1=152(LC 9)
 Max Uplift 1=-142(LC 12), 7=-141(LC 13)
 Max Grav 1=894(LC 1), 7=894(LC 1)

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

TOP CHORD 1-3=-1188/223, 3-4=-940/199, 4-5=-938/199, 5-7=-1172/221
 BOT CHORD 1-8=-218/975, 7-8=-124/955
 WEBS 3-8=-323/199, 4-8=-65/515, 5-8=-303/195

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=142, 7=141.
- 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.



August 11, 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/HAWTHORN RIDGE#156/MO
2895604	B10	GABLE	1	1	I47385498

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

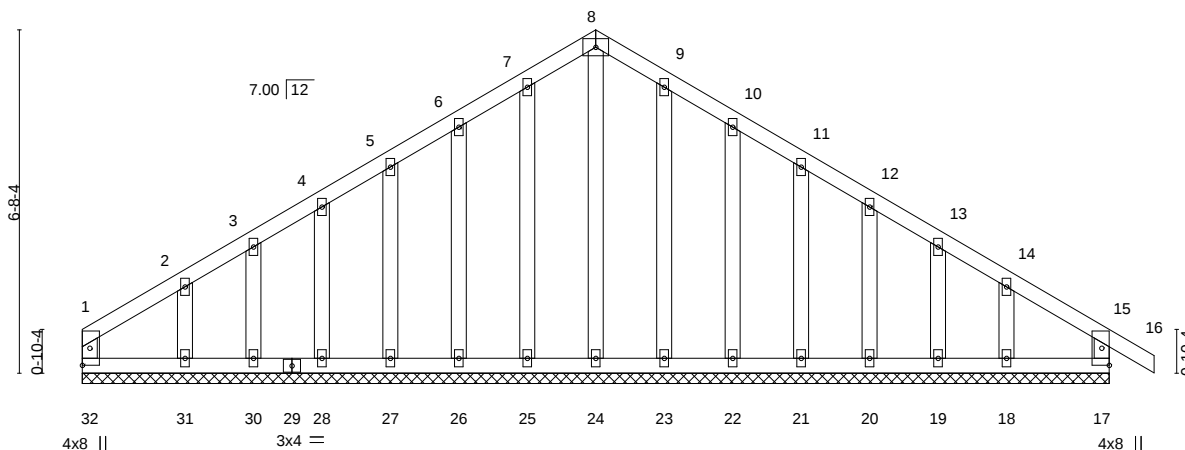
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:41 2021 Page 1

ID:E5coXNwXg6dPCXgLPlto7ky4NV8-w_ak__2jR3guN?cWFUYvgz1jmdsF9MPGV1ckpyhZ0

10-0-0 20-0-0 20-10-8
10-0-0 10-0-0 0-10-8

4x6 =

Scale = 1:44.9



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 0.07	Vert(LL)	-0.00	16	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	16	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	17	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 105 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 20-0-0.

(lb) - Max Horz 32=-184(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 32, 17, 25, 26, 27, 28, 30, 23, 22, 21, 20, 19 except 31=-110(LC 12), 18=-100(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 32, 17, 24, 25, 26, 27, 28, 30, 31, 23, 22, 21, 20, 19, 18

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-4-0, Exterior(2N) 3-4-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 32, 17, 25, 26, 27, 28, 30, 23, 22, 21, 20, 19 except (jt=lb) 31=110, 18=100.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 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

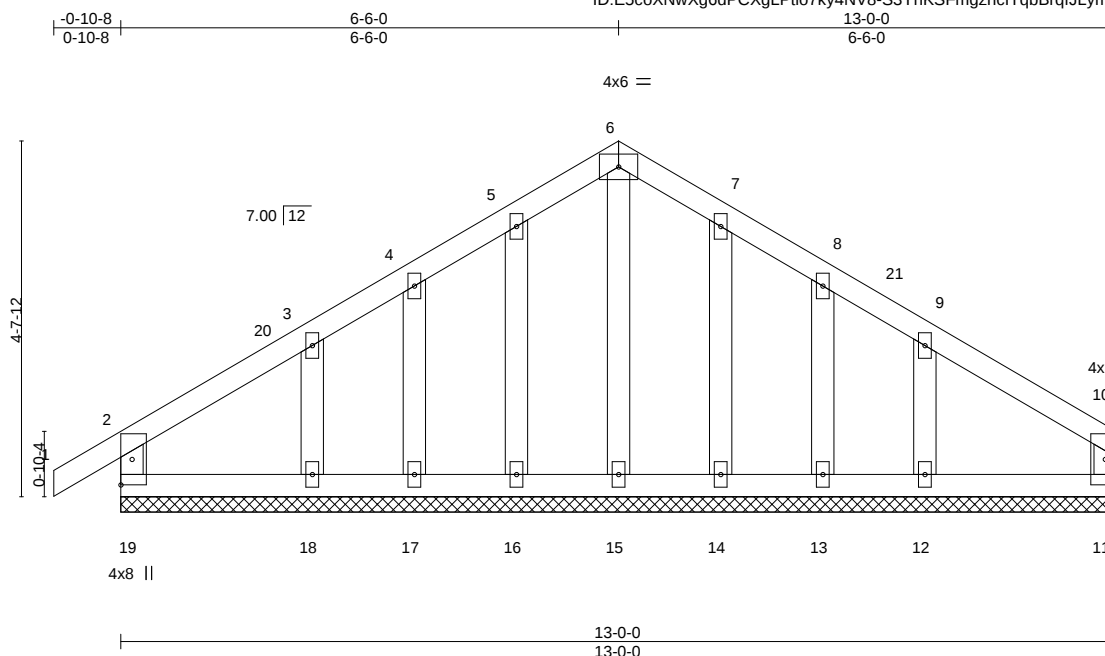
Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	C1	GABLE	1	1	I47385499

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:57 2021 Page 1

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Scale = 1:30.1

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)	-0.00	1	n/r	120	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 56 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 13-0-0.

(lb) - Max Horz 19=131(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 19, 11, 16, 17, 18, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 19, 11, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 12-10-4 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
- 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) 19, 11, 16, 17, 18, 14, 13, 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 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 2895604	Truss C2	Truss Type Roof Special	Qty 4	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385500
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:21 2021 Page 1

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4x6 ||

Scale = 1:29.6

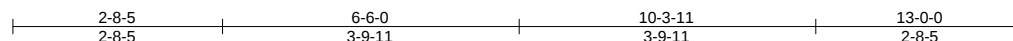
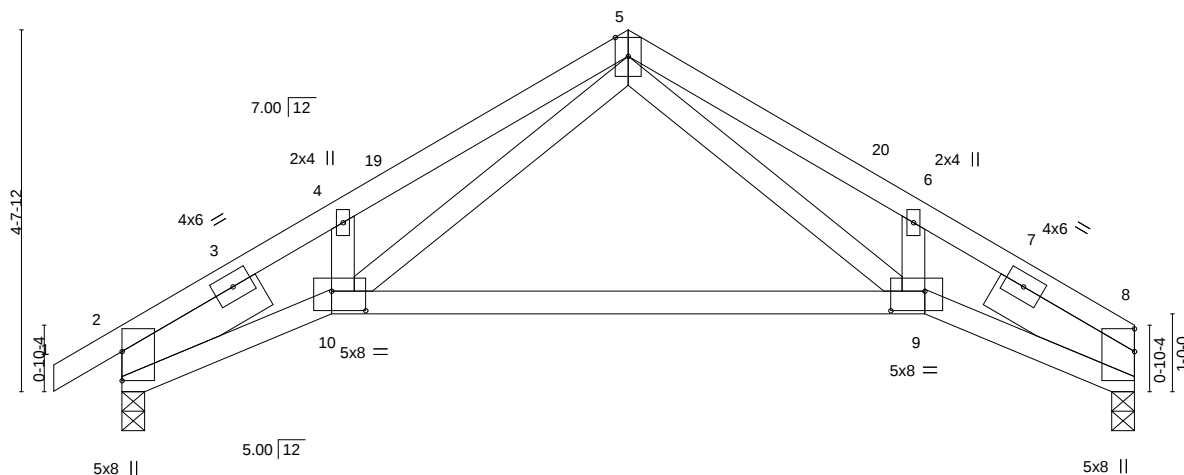


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [8:Edge,0-0-0], [9:0-5-4,0-3-0], [10:0-5-4,0-3-0]

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 0.26	Vert(LL)	-0.12	9-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.28	9-10	>565	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.07	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 55 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 2-1-11, Right 2x6 SPF No.2 2-1-11

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
Max Horz 2=108(LC 11)
Max Uplift 8=91(LC 13), 2=111(LC 12)
Max Grav 8=583(LC 1), 2=648(LC 1)

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

TOP CHORD 2-4=-1365/278, 4-5=-1289/372, 5-6=-1307/369, 6-8=-1381/276
BOT CHORD 2-10=-233/1182, 9-10=-68/569, 8-9=-194/1183
WEBS 5-9=-188/718, 5-10=-231/753

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 13-0-0 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
- 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, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=111.
- This truss 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.



August 11, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385501
2895604	C3	Roof Special	1	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:23 2021 Page 1

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Job Reference (optional)

-0-10-8	2-8-5	6-6-0	8-11-2	10-3-11	13-0-0
0-10-8	2-8-5	3-9-11	2-5-2	1-4-9	2-8-5

4x6 =

Scale = 1:30.0

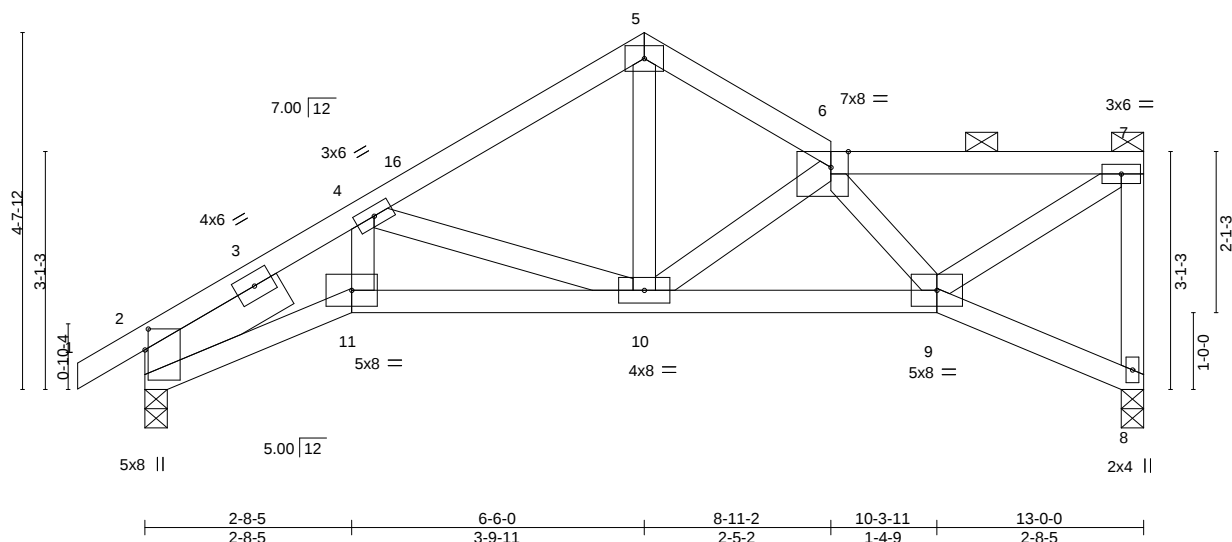


Plate Offsets (X,Y)--		[2:0-3-4,0-0-8], [6:0-2-11,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.20	Vert(LL)	-0.04 10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15		BC	0.45	Vert(CT)	-0.07 10-11	>999	180		
BCLL	0.0	Rep Stress Incr YES		WB	0.17	Horz(CT)	0.05 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 58 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 2-1-11

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
Max Horz 2=154(LC 11)
Max Uplift 8=107(LC 13), 2=110(LC 12)
Max Grav 8=576(LC 1), 2=642(LC 1)

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

TOP CHORD 2-4=-1267/411, 4-5=-720/204, 5-6=-726/220, 6-7=-599/146, 7-8=-552/167
BOT CHORD 2-11=-479/1104, 10-11=-443/1016, 9-10=-299/860
WEBS 4-11=-116/346, 7-9=-194/700, 6-9=-439/166, 6-10=-344/120, 5-10=-112/456, 4-10=-473/238

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2E) 6-6-0 to 8-11-2, Interior(1) 8-11-2 to 12-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 8, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=107, 2=110.
- This truss 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.



August 11, 2021

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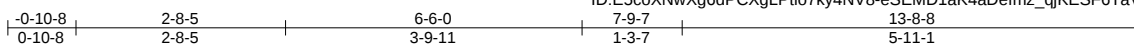
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss C4	Truss Type Roof Special	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385502
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:25 2021 Page 1

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4x6 =

Scale = 1:29.6

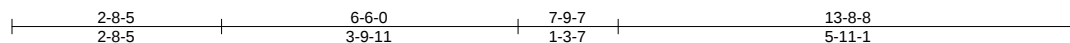
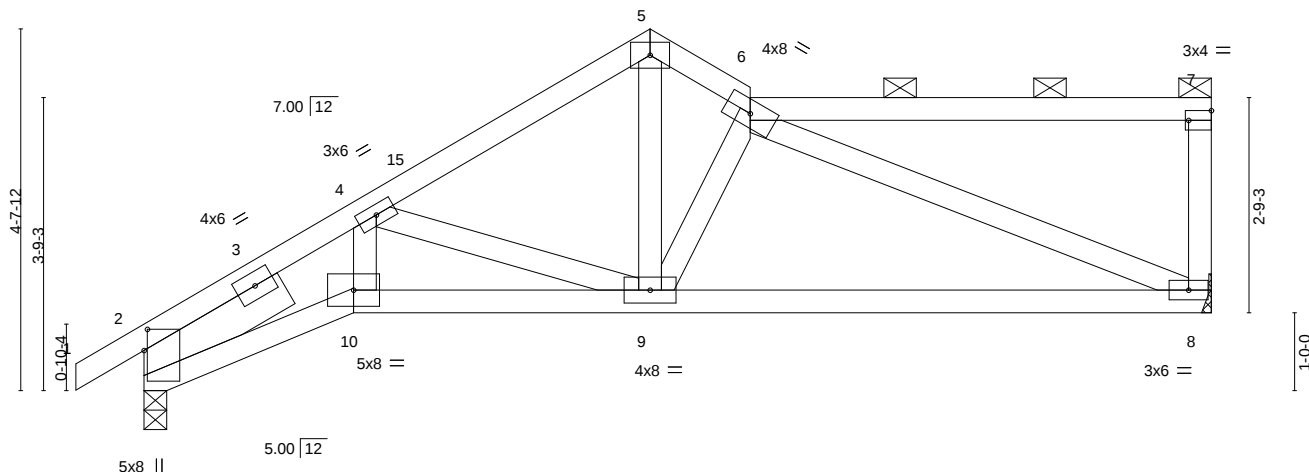


Plate Offsets (X,Y)-- [2:0-3-4,0-0-8], [7:Edge,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.07	8-9	>999	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.14	8-9	>999	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	8	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 59 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 2-1-11

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=Mechanical, 2=0-3-8
Max Horz 2=139(LC 9)
Max Uplift 8=123(LC 13), 2=112(LC 12)
Max Grav 8=608(LC 1), 2=674(LC 1)

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

TOP CHORD 2-4=-1345/415, 4-5=-801/188, 5-6=-823/227
BOT CHORD 2-10=-501/1144, 9-10=-459/1062, 8-9=-281/845
WEBS 4-10=-137/340, 6-8=-833/263, 5-9=-143/645, 6-9=-416/160, 4-9=-458/251

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2E) 6-6-0 to 7-9-7, Interior(1) 7-9-7 to 13-6-12 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) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=123, 2=112.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 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 2895604	Truss C5	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385503
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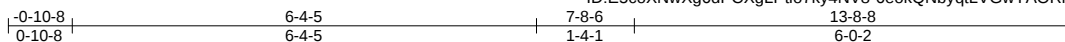
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:26 2021 Page 1

ID:E5coXNwXg6dPCXgLp1o7ky4NV8-6eokQNbyqtLVGwYAORrT?SfanvSflm_1c0QVoipyHyJ

Job Reference (optional)



Scale = 1:31.6

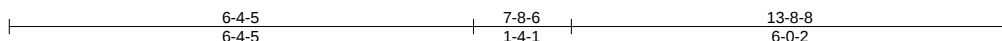
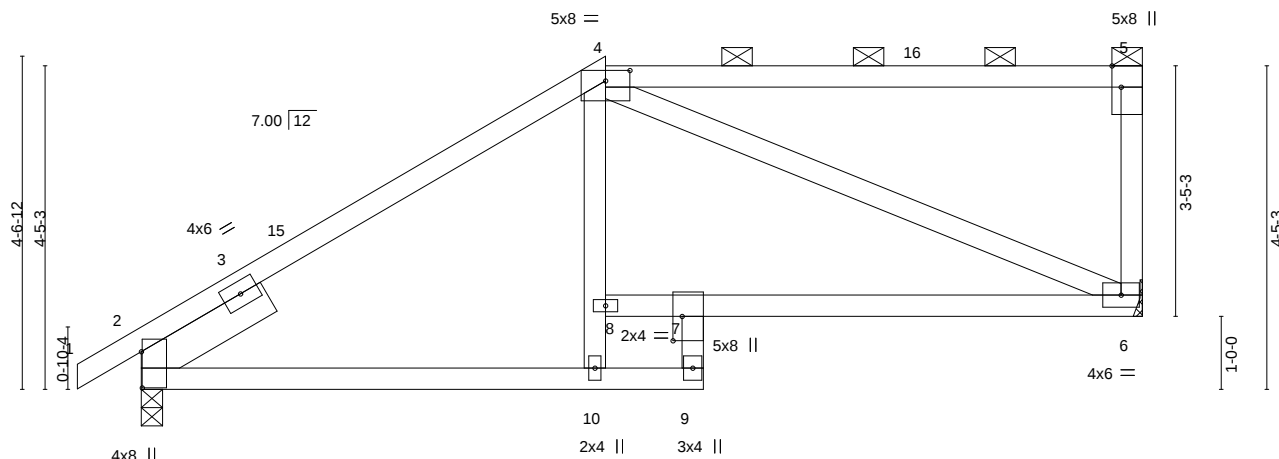


Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [4:0-4-0,0-1-11], [5:0-3-8,Edge], [7:0-4-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.10	6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.24	6-7	>692	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.09	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 56 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 2-0-0

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
Max Horz 2=144(LC 9)
Max Uplift 6=136(LC 9), 2=111(LC 12)
Max Grav 6=608(LC 1), 2=674(LC 1)

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

TOP CHORD 2-4=-732/153, 5-6=-264/111
BOT CHORD 2-10=-204/573, 9-10=-152/297, 7-8=-71/358, 6-7=-223/654
WEBS 8-10=0/288, 4-8=0/271, 4-6=-596/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-4-5, Exterior(2R) 6-4-5 to 10-7-3, Interior(1) 10-7-3 to 13-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=136, 2=111.
- 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.



August 11, 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 2895604	Truss C6	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385504
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

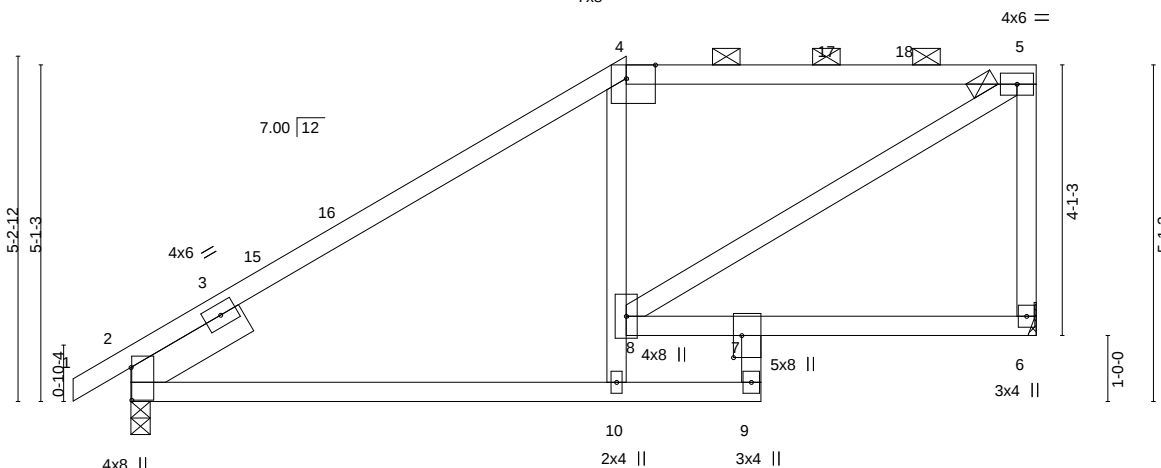
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:27 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-arM6djcabBTMu47My8NiXgBohJqj1tYBrfA2L9ypHyl

0-10-8 7-6-0 9-6-8 13-8-8
0-10-8 7-6-0 2-0-8 4-2-0

7x8 =

Scale = 1:34.9



7-6-0 9-6-8 13-8-8
7-6-0 2-0-8 4-2-0

Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [4:0-5-5,Edge], [7:0-4-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	0.09 10-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.13 10-13	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.06 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 58 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 2-0-0

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
Max Horz 2=170(LC 9)
Max Uplift 6=-135(LC 9), 2=-116(LC 12)
Max Grav 6=608(LC 1), 2=674(LC 1)

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

TOP CHORD 2-4=-637/144, 4-5=-545/174, 5-6=-500/158
BOT CHORD 2-10=-197/495, 9-10=-157/335, 7-8=-279/108
WEBS 8-10=0/272, 5-8=-190/572

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 13-6-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=135, 2=116.
- 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	C7	Half Hip	1	1	I47385505

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:29 2021 Page 1

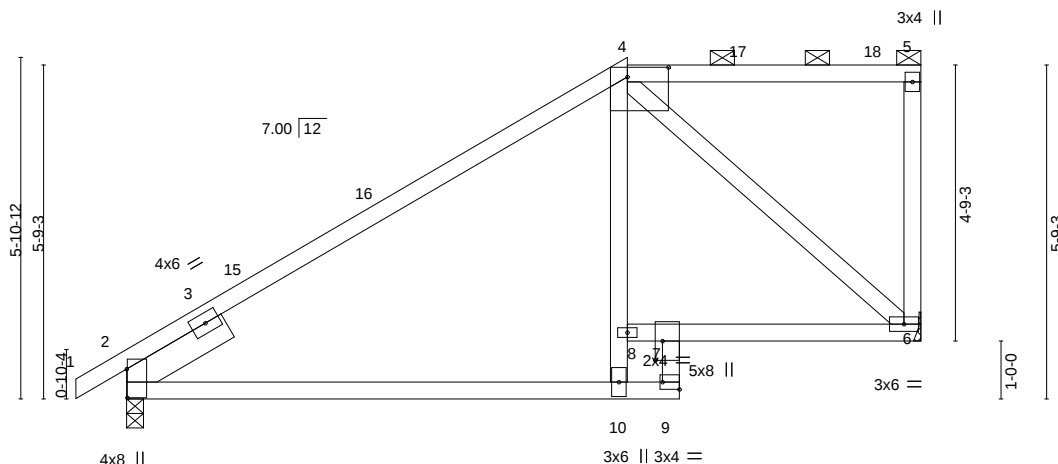
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Job Reference (optional)

0-10-8 4-5-10 8-7-11 9-6-8 13-8-8
0-10-8 4-5-10 4-2-2 0-10-12 4-2-0

9x12 MT18HS =

Scale = 1:39.8



4-5-10 8-7-11 9-6-8 13-8-8
4-5-10 4-2-2 0-10-12 4-2-0

Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [4:0-8-8,0-2-0], [7:0-4-0,0-1-8], [9:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	0.14 10-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.21 10-13	>769	180	MT18HS	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.06 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 58 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 2-0-0

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
Max Horz 2=197(LC 9)
Max Uplift 6=-133(LC 9), 2=-119(LC 12)
Max Grav 6=608(LC 1), 2=674(LC 1)

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

TOP CHORD 2-4=-591/138
BOT CHORD 2-10=-194/439, 9-10=-154/331, 6-7=-205/458
WEBS 8-10=-17/414, 4-8=0/287, 4-6=-592/206

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-7-11, Exterior(2R) 8-7-11 to 12-10-10, Interior(1) 12-10-10 to 13-6-12 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=133, 2=119.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 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/HAWTHORN RIDGE#156/MO
2895604	C9	Half Hip	1	1	I47385507

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:31 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-TccdT4f5fQ_oNhQ8B_RehWMYlwCkzh?mmH8GUwypHyE

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0-10-8 5-7-5 5-3-13 2-9-6

Scale = 1:45.5

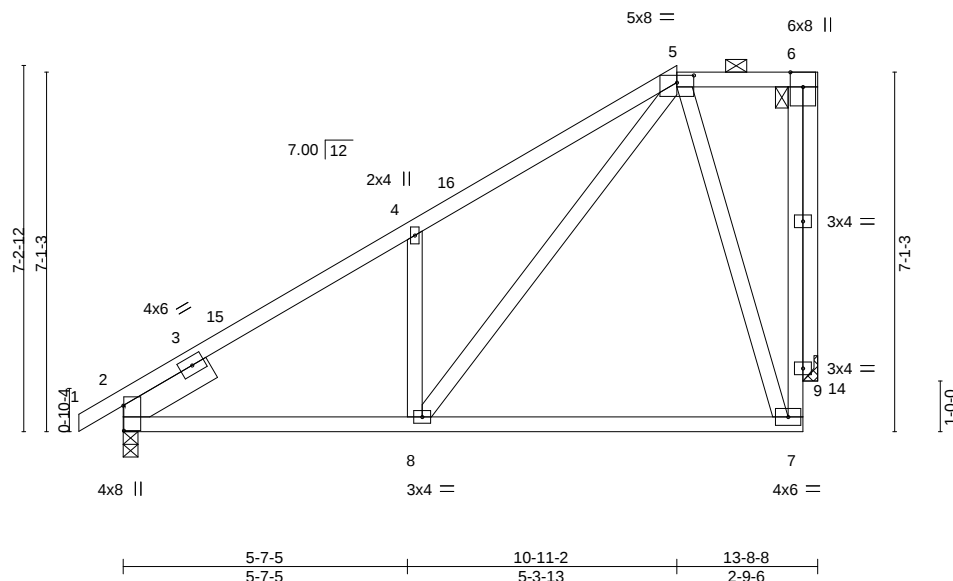


Plate Offsets (X,Y)--		[2:0-5-15,0-0-2], [5:0-4-0,0-1-11]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.25		Vert(LL)	-0.09 7-8	>999	240	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.37		Vert(CT)	-0.18 7-8	>922	180		
BCLL 0.0		Rep Stress Incr	YES	WB 0.43		Horz(CT)	-0.02 14	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS						Weight: 73 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 14=Mechanical
Max Horz 2=257(LC 12)
Max Uplift 2=-85(LC 12), 14=-164(LC 12)
Max Grav 2=673(LC 1), 14=582(LC 1)

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

TOP CHORD 2-4=-731/65, 4-5=-761/224, 7-9=-171/528, 6-9=-171/528
BOT CHORD 2-8=-216/593
WEBS 4-8=-386/257, 5-7=-482/214, 5-8=-265/670, 6-14=-583/165

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-11-2, Exterior(2E) 10-11-2 to 13-3-4 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) 2 except (jt=lb) 14=164.
- This truss 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss C10	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385508
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:58 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-wF69YoFORHqTvdPolYLusYVtQcxGkkywAfe0pKypHyl

0-10-8 6-2-3 12-0-14 13-8-8
0-10-8 6-2-3 5-10-11 1-7-10

Scale = 1:49.6

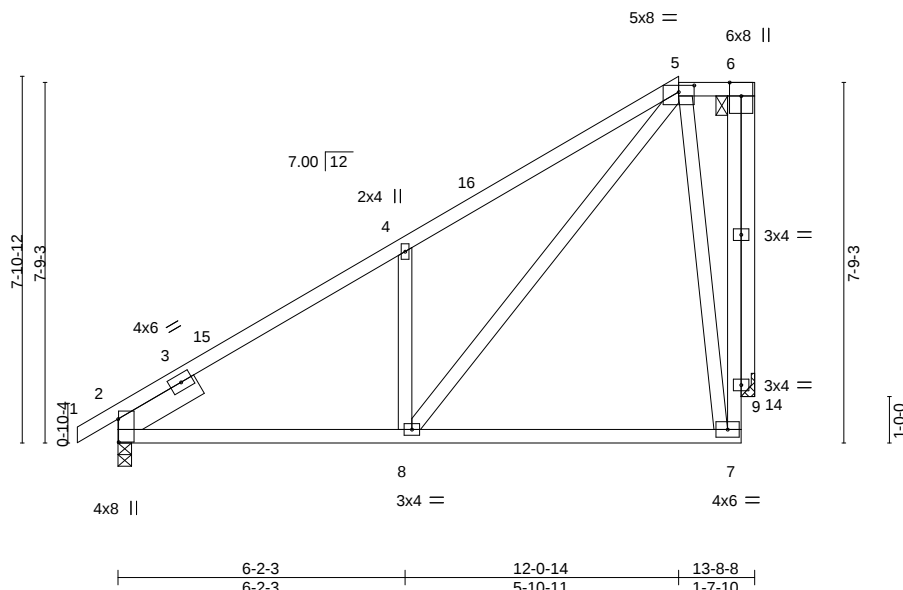


Plate Offsets (X,Y)--		[2:0-5-15,0-0-2], [5:0-4-0,0-1-11]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.33		Vert(LL)	-0.07 7-8	>999	240	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.35		Vert(CT)	-0.14 7-8	>999	180		
BCLL 0.0		Rep Stress Incr	YES	WB 0.55		Horz(CT)	-0.02 14	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS						Weight: 77 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 14=Mechanical
Max Horz 2=284(LC 12)
Max Uplift 2=-74(LC 12), 14=-196(LC 12)
Max Grav 2=673(LC 1), 14=582(LC 1)

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

TOP CHORD 2-4=-691/45, 4-5=-759/223, 7-9=-237/607, 6-9=-237/607
BOT CHORD 2-8=-221/587
WEBS 4-8=-442/285, 5-7=-548/270, 5-8=-307/750, 6-14=-583/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-14, Exterior(2E) 12-0-14 to 13-3-4 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) 2 except (jt=lb) 14=196.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO
2895604	C10A	Half Hip	1	1	147385509

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:35:59 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-PSgXl8G0BbyKXm__JGs7Om11t0HmTBG3PJ0ZLnypHyk

0-10-8 6-9-1 13-2-9 13-8-8
0-10-8 6-9-1 6-5-9 0-5-15

Scale = 1:52.1

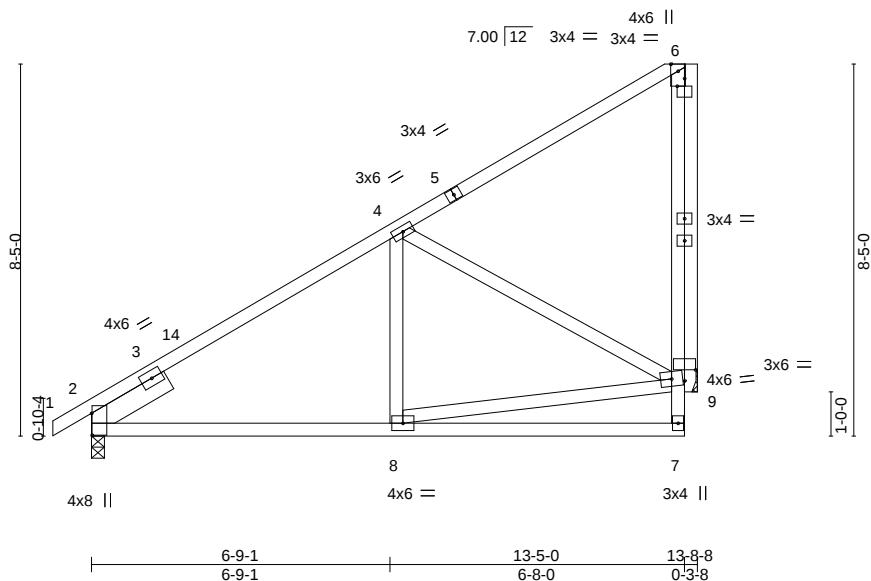


Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [6:0-2-0,0-2-1], [9:0-3-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.05	8-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	8-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 75 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 9=Mechanical
Max Horz 2=332(LC 11)
Max Uplift 2=-102(LC 12), 9=-189(LC 12)
Max Grav 2=660(LC 1), 9=633(LC 19)

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

TOP CHORD 2-4=-641/145
BOT CHORD 2-8=-247/568
WEBS 8-9=-364/561, 4-9=-594/256

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-3-4 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) except (jt=lb) 2=102, 9=189.
- 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.



August 11, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	C10B	Jack-Closed	1	1	I47385510

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:00 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-teEvzUHeyu4B9wZAszOMxzaEyQfDCidCez77uDypHyj

0-10-8 5-10-8 11-5-8 13-8-8
0-10-8 5-10-8 5-7-0 2-3-0

Scale = 1:52.7

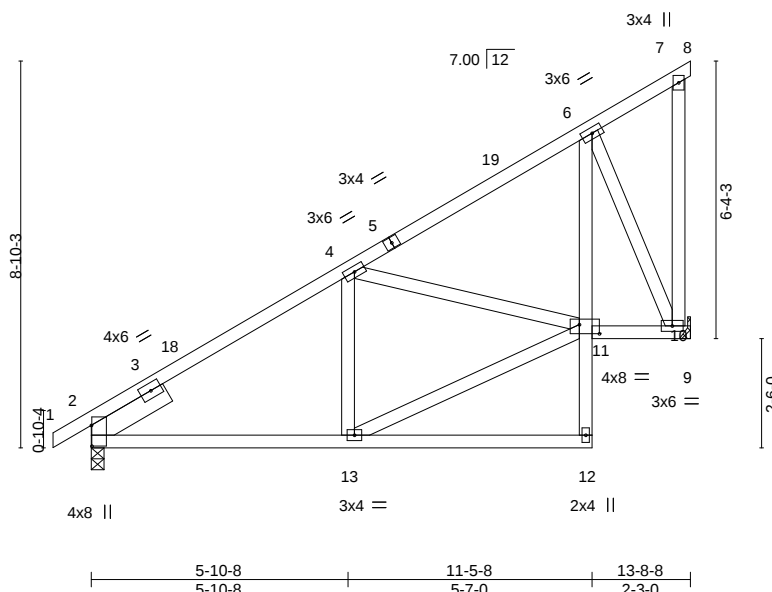


Plate Offsets (X,Y)--		[2:0-5-11,0-0-2], [11:0-5-8,0-2-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.03 13-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05 12-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.01 2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 75 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 2-0-0

BRACING-

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

REACTIONS.

(size) 10=Mechanical, 2=0-3-8
Max Horz 2=291(LC 9)
Max Uplift 10=-119(LC 9), 2=-84(LC 12)
Max Grav 10=653(LC 19), 2=668(LC 1)

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

TOP CHORD 2-4=-685/133, 4-6=-403/116
BOT CHORD 2-13=-232/601, 6-11=-91/408, 10-11=-157/284
WEBS 6-10=-625/220, 11-13=-260/646, 4-11=-317/137

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-8-8 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) 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 except (jt=lb) 10=119.
- 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.



August 11, 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 2895604	Truss C11	Truss Type Jack-Closed	Qty 2	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385511
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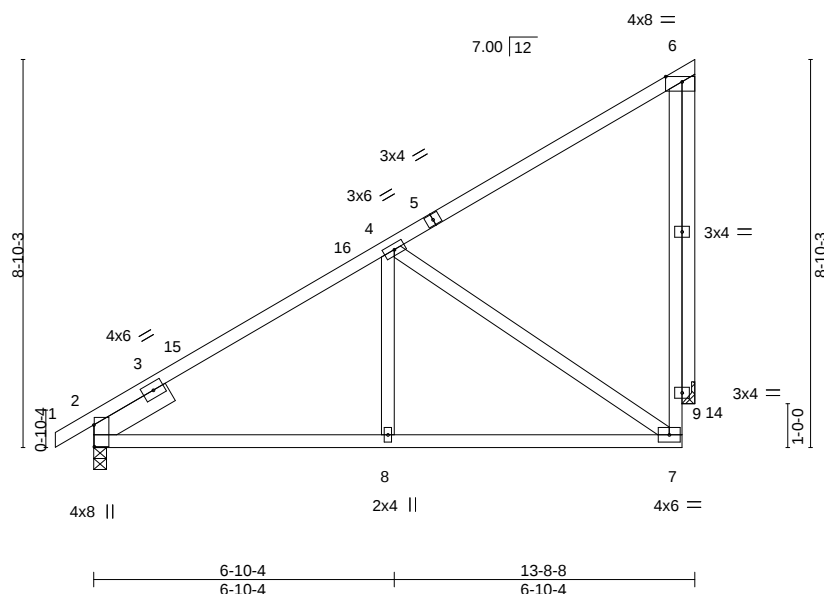
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:03 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-HDv2bWJXFPsm0OHY5x4ZcCjideVPz_fKxMnUYypHyg

0-10-8 6-10-4 13-8-8
0-10-8 6-10-4 6-10-4



Scale = 1:52.5

Plate Offsets (X,Y)--		[2:0-5-15,0-0-2], [6:0-4-8,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	0.42	Vert(LL)	-0.05 7-8 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09 7-8 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	-0.02 2 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
OTHERS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 14=Mechanical
Max Horz 2=268(LC 12)
Max Uplift 2=-54(LC 12), 14=-147(LC 12)
Max Grav 2=673(LC 1), 14=601(LC 19)

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

TOP CHORD 2-4=-673/7, 7-9=-86/416, 6-9=-86/416
BOT CHORD 2-8=-173/572, 7-8=-173/572
WEBS 4-8=0/285, 4-7=-635/205, 6-14=-602/151

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-3-4 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 except (jt=16) 14=147.
- 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.



August 11, 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 2895604	Truss C11A	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385512
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:05 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-Dc1o0BLnnQiUFhR8fWzYe1H3ORK9tu?ynEruZQypHye

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0-10-8 6-9-7 6-5-15 0-5-1

Scale = 1:52.2

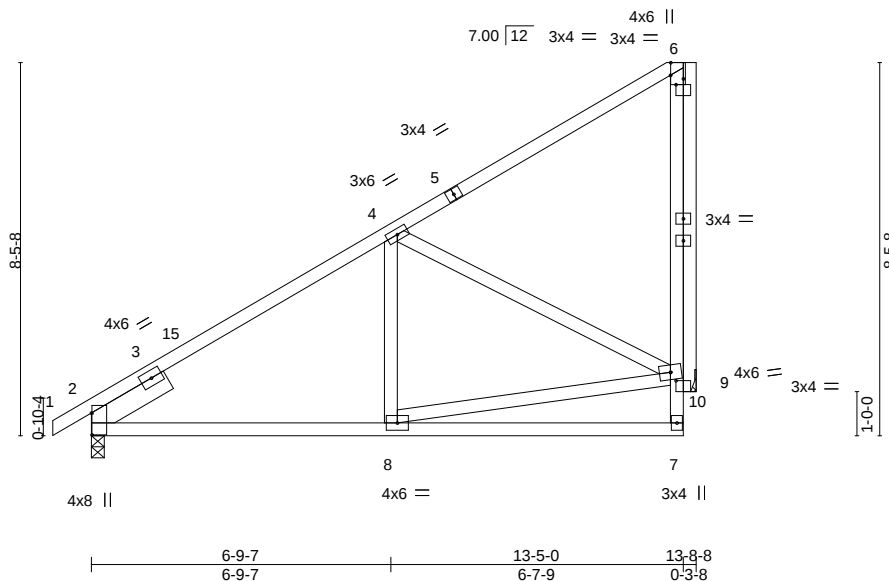


Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [6:0-2-0,0-1-9], [6:0-3-7,Edge], [9:0-1-8,0-2-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.05 8-13 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07 7-8 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	-0.02 2 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 75 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 10=Mechanical
Max Horz 2=332(LC 11)
Max Uplift 2=-102(LC 12), 10=-189(LC 12)
Max Grav 2=660(LC 1), 10=633(LC 19)

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

TOP CHORD 2-4=-647/145, 9-10=-550/273
BOT CHORD 2-8=-250/575
WEBS 8-9=-366/632, 4-9=-576/254

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-3-4 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) except (jt=lb) 2=102, 10=189.
- 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

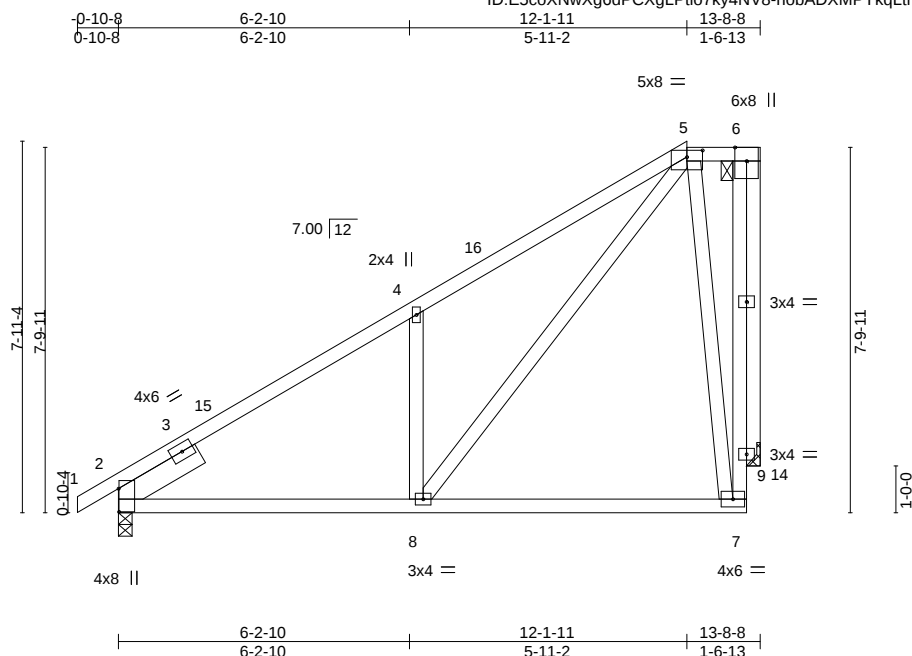


Plate Offsets (X,Y)-- [2:0-5-15,0-0-2], [5:0-4-0,0-1-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 77 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x6 SPF No.2 2-0-0		

REACTIONS. (size) 2=0-3-8, 14=Mechanical
Max Horz 2=286(LC 12)
Max Uplift 2=-73(LC 12), 14=-198(LC 12)
Max Grav 2=673(LC 1), 14=582(LC 1)

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

TOP CHORD	2-4=-683/42, 4-5=-748/220, 7-9=-237/605, 6-9=-237/605
BOT CHORD	2-8=-218/577
WEBS	4-8=-449/287, 5-7=-548/269, 5-8=-310/755, 6-14=-583/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-11, Exterior(2E) 12-1-11 to 13-3-4 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) 2 except (jt=lb) 14=198.
- 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.



August 11, 2021

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

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	C13	Half Hip	1	1	I47385514

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:09 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-6NHJsZOlrFCvkJlvuM2UotSnn2hbpkTXisp5iBypHya

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0-10-8 5-7-12 5-4-4 2-8-8

Scale = 1:45.7

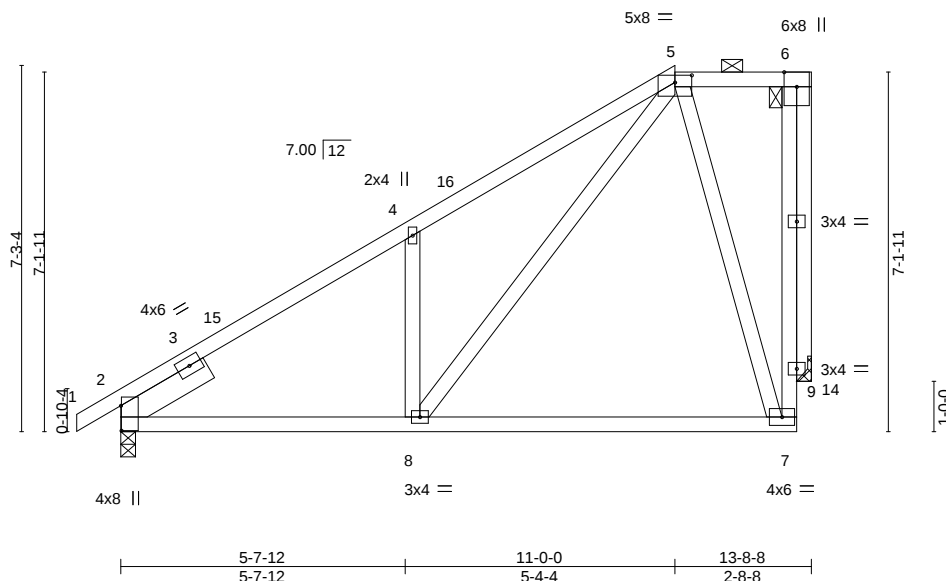


Plate Offsets (X,Y)--		[2:0-5-15,0-0-2], [5:0-4-0,0-1-11]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.26		Vert(LL)	-0.08 7-8	>999	240	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.37		Vert(CT)	-0.17 7-8	>940	180		
BCLL 0.0		Rep Stress Incr	YES	WB 0.43		Horz(CT)	-0.02 14	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS						Weight: 74 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 14=Mechanical
Max Horz 2=259(LC 12)
Max Uplift 2=-84(LC 12), 14=-166(LC 12)
Max Grav 2=673(LC 1), 14=582(LC 25)

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

TOP CHORD 2-4=-730/64, 4-5=-760/224, 7-9=-175/532, 6-9=-175/532
BOT CHORD 2-8=-216/592
WEBS 4-8=-390/258, 5-7=-485/217, 5-8=-267/675, 6-14=-583/167

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2E) 11-0-0 to 13-3-4 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) 2 except (jt=lb) 14=166.
- This truss 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.



August 11, 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 2895604	Truss C14	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385515
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:10 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-aZqh3vPwcZKmMTJ5S3ZjL4_x1S_JYFchxWYfEeypHyZ

Job Reference (optional)

0-10-8 6-0-14 9-10-5 13-8-8
0-10-8 6-0-14 3-9-7 3-10-4

Scale = 1:41.6

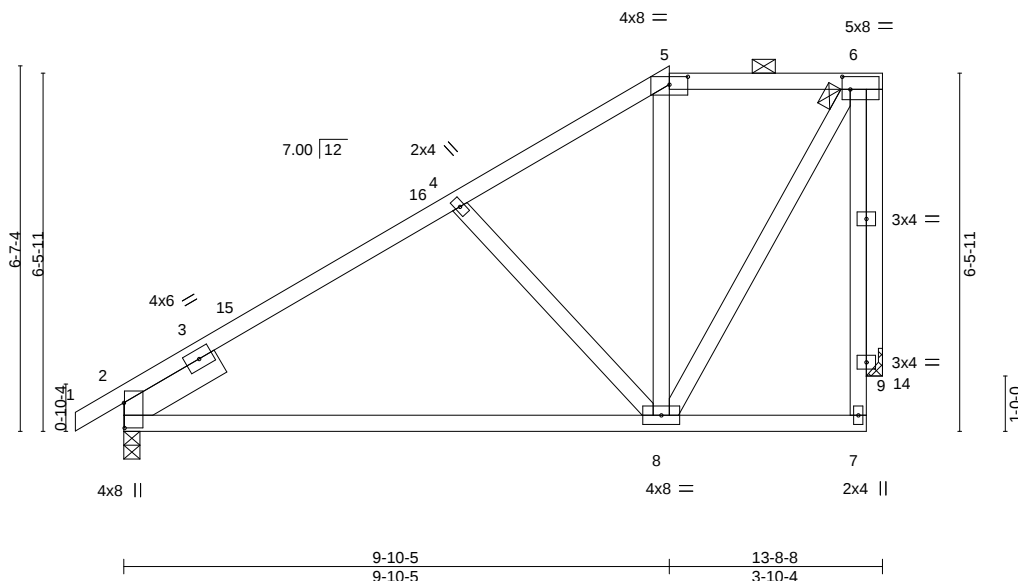


Plate Offsets (X,Y)-- [2:0-5-7,0-0-2], [5:0-4-0,0-1-11], [6:0-1-12,0-2-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.15	8-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.30	8-12	>537	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 71 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 14=Mechanical
Max Horz 2=232(LC 12)
Max Uplift 2=93(LC 12), 14=-138(LC 12)
Max Grav 2=673(LC 1), 14=582(LC 1)

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

TOP CHORD 2-4=-728/89, 4-5=-427/66, 5-6=-301/82
BOT CHORD 2-8=-208/526
WEBS 4-8=-357/205, 6-8=-145/533, 6-14=-583/148

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-10-5, Exterior(2E) 9-10-5 to 13-3-4 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) 2 except (jt=lb) 14=138.
- This truss 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.



August 11, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss C15	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385516
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:12 2021 Page 1

ID:E5coXNwXg6dPCXgLPtio7ky4NV8-WyySubQA8aaUbmTUZUbBQV4A?Ggt099_Oq1IJWypHyX

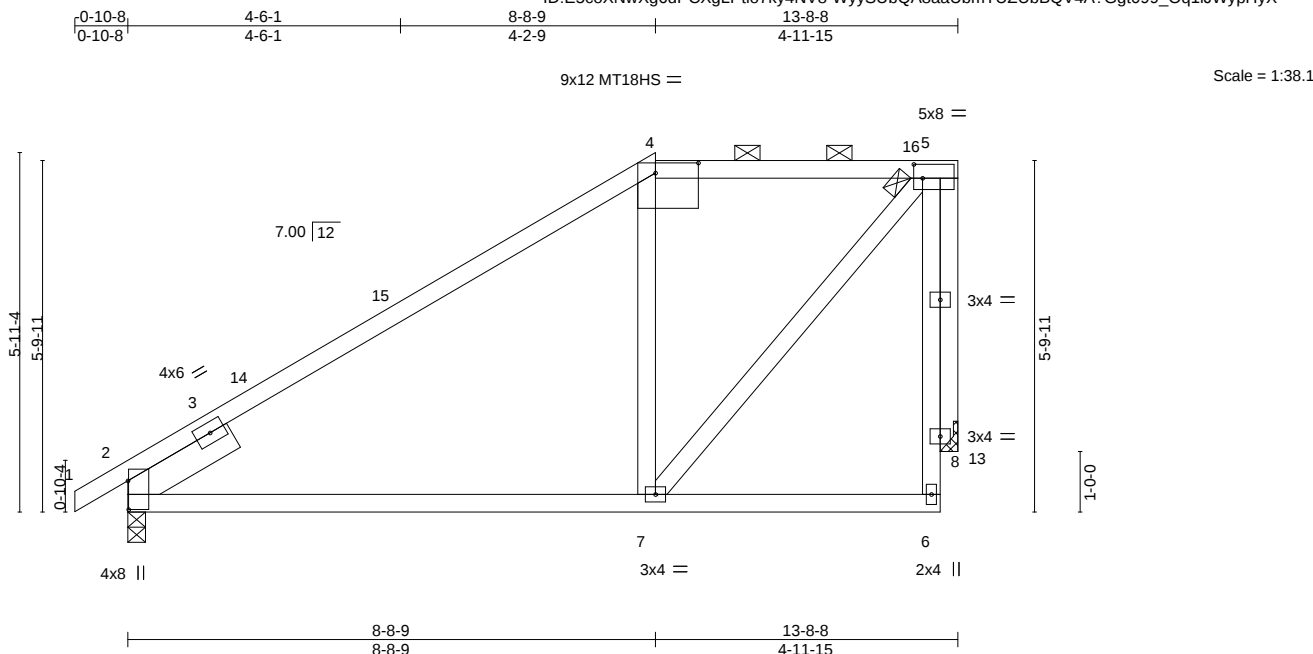


Plate Offsets (X,Y)-- [2:0-5-11,0-0-2], [4:0-8-8,0-2-0], [5:0-1-12,0-2-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.17	7-11	>984	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.25	7-11	>654	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.07	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 62 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
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 13=Mechanical
Max Horz 2=205(LC 12)
Max Uplift 2=-98(LC 12), 13=-112(LC 12)
Max Grav 2=673(LC 1), 13=582(LC 1)

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

TOP CHORD 2-4=-573/66, 4-5=-432/131
BOT CHORD 2-7=-141/424
WEBS 4-7=-259/170, 5-7=-202/610, 5-13=-584/139

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-8-9, Exterior(2R) 8-8-9 to 12-11-8, Interior(1) 12-11-8 to 13-3-4 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 MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 4 = 16%
- 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 except (jt=lb) 13=112.
- This truss 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385517
2895604	C16	Half Hip	1	1		

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

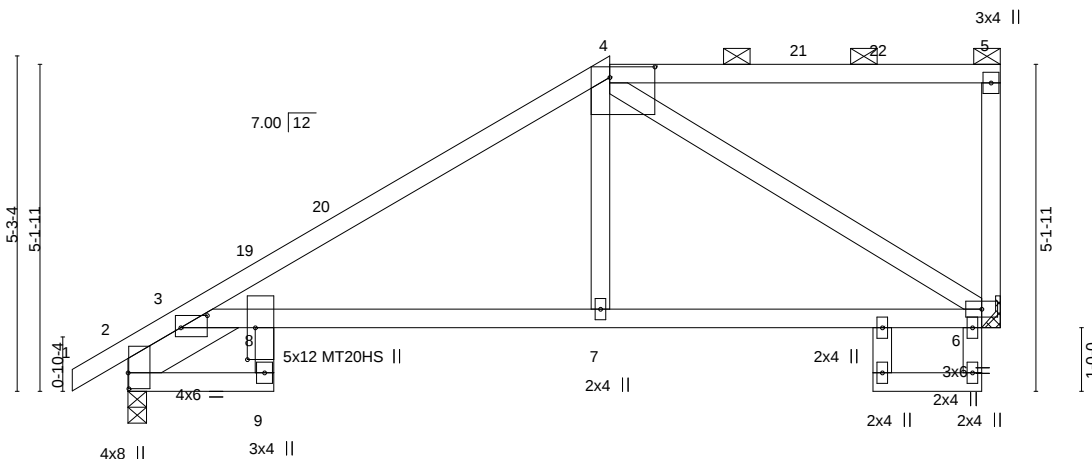
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:13 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-8WqhwRouuiLDw2g7C7QzjcNAfv2IU67dUnJrzipHyW

0-10-8	2-3-8	7-6-14	11-8-8	13-8-8
0-10-8	2-3-8	5-3-6	4-1-10	2-0-0

9x12 MT18HS =

Scale = 1:36.2



2-3-8	7-6-14	11-8-8	13-8-8
2-3-8	5-3-6	4-1-10	2-0-0

Plate Offsets (X,Y)-- [2:0-3-0,0-0-2], [3:0-5-0,0-2-5], [4:0-8-8,0-2-0], [8:0-6-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	0.20	7-8	>823	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.33	7-8	>490	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.14	6	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 59 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
 SLIDER Left 2x6 SPF No.2 1-10-5

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
 Max Horz 2=172(LC 9)
 Max Uplift 2=-117(LC 12), 6=-135(LC 9)
 Max Grav 2=674(LC 25), 6=608(LC 1)

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

TOP CHORD 3-14=-597/136, 3-4=-796/153
 BOT CHORD 2-9=-205/349, 3-8=-51/317, 7-8=-254/639, 6-7=-253/630
 WEBS 4-7=-3/342, 4-6=-717/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-14, Exterior(2R) 7-6-14 to 11-9-12, Interior(1) 11-9-12 to 13-6-12 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 6=135.
- This truss 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.



August 11, 2021

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



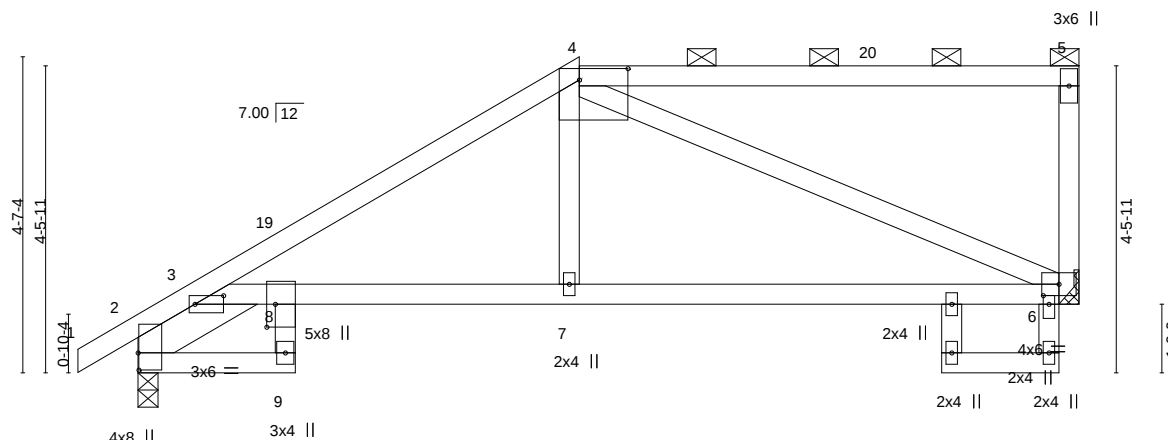
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:14 2021 Page 1
ID:E5coXNwXa6dPCXqLPtlo7kv4NV8-TK4CvGSOfBrCq4dshvefVw9Yi3leUyhGs8WSPNPpovHv

0-10-8	2-3-8	6-5-2	11-8-8	13-8-8
0-10-8	2-3-8	4-1-10	5-3-6	2-0-0

9x12 MT18HS =

Scale = 1:33.6



A number line from 0 to 10 with tick marks at every integer. Above the line, the numbers 2-3-8, 6-5-2, 11-8-8, and 13-8-8 are written. Below the line, the numbers 2-3-8, 4-1-10, 5-3-6, and 2-0-0 are written.

Plate Offsets (X,Y)-- [2:0-3-0-0-2], [3:0-5-0-0-1-8], [4:0-8-8-0-2-0], [6:0-1-8-0-1-0], [8:0-4-0-0-1-8]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.12	7-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.20	7-8	>819	180	MT18HS	197/144	
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 58 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
SLIDER	Left 2x6 SFE No 2 1-10-5

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=145(LC 9)
Max Uplift 2=-112(LC 12), 6=-136(LC 9)
Max Grav 2=674(LC 1), 6=608(LC 1)

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

TOP CHORD 3-14=-568/121, 3-4=-917/168, 5-6=-251/110
BOT CHORD 2-9=-176/308, 3-8=-96/477, 7-8=-266/765, 6-7=-266/755
WEBS 4-7=0/347, 4-6=-748/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Valt=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior (2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-5-2, Exterior (2R) 6-5-2 to 10-8-1, Interior (1) 10-8-1 to 13-6-12 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 6=136.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2021



WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1473 (Rev. 3/29/2020) 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

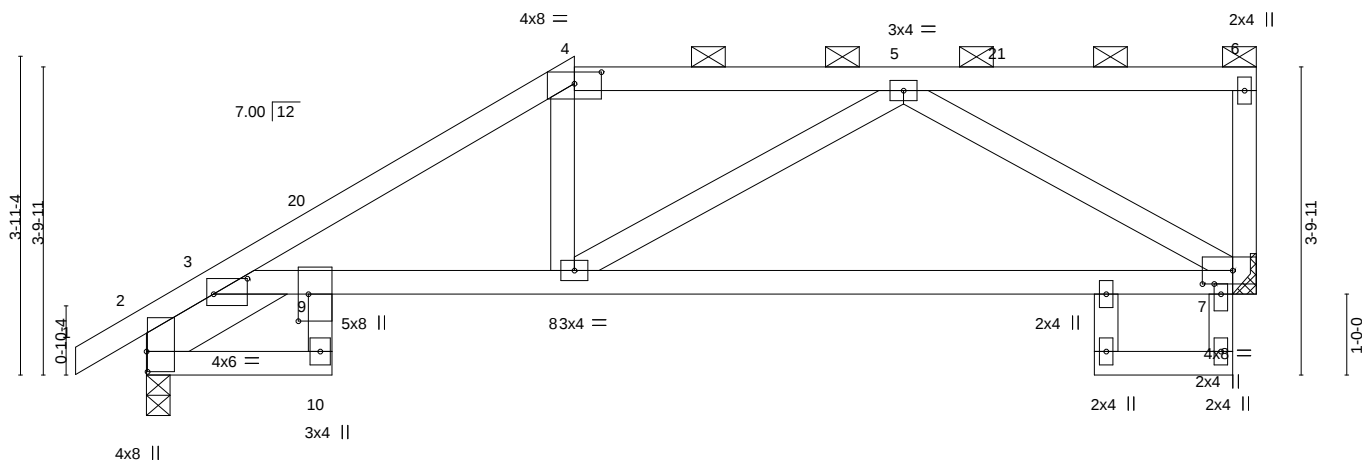
Job 2895604	Truss C18	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385519
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:16 2021 Page 1

0-10-8 0-10-8	2-3-8 2-3-8	5-3-7 2-11-15	9-4-3 4-0-13	11-8-8 2-4-5	13-8-8 2-0-0
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Scale = 1:28.5



	2-3-8 2-3-8	5-3-7 2-11-15	11-8-8 6-5-1	13-8-8 2-0-0
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Plate Offsets (X,Y)-- [2:0-3-0,0-0-2], [3:0-5-0,0-2-5], [4:0-4-0,0-1-11], [7:0-4-8,0-2-0], [7:0-1-8,0-1-0], [9:0-4-0,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.12 7-8 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.23 7-8 >703 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.07 7 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 59 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
SLIDER Left 2x6 SPF No.2 1-10-5

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
Max Horz 2=119(LC 9)
Max Uplift 2=-104(LC 12), 7=-137(LC 9)
Max Grav 2=674(LC 1), 7=608(LC 1)

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

TOP CHORD 3-15=-564/116, 3-4=-1037/186, 4-5=-865/209
BOT CHORD 2-10=-154/283, 3-9=-108/591, 8-9=-262/874, 7-8=-215/715
WEBS 4-8=0/260, 5-7=-774/235

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-3-7, Exterior(2R) 5-3-7 to 9-4-3, Interior(1) 9-4-3 to 13-6-12 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=104, 7=137.
- This truss 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.



August 11, 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/HAWTHORN RIDGE#156/MO	147385520
2895604	C19	Half Hip Girder	1	1	Job Reference (optional)	

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

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ID:E5coXNwXg6dPCXgLPto7ky4NV8-plt5y_WZUkTUxVqUSDqC_sLB4_U9Fz??QEd3cypHyQ

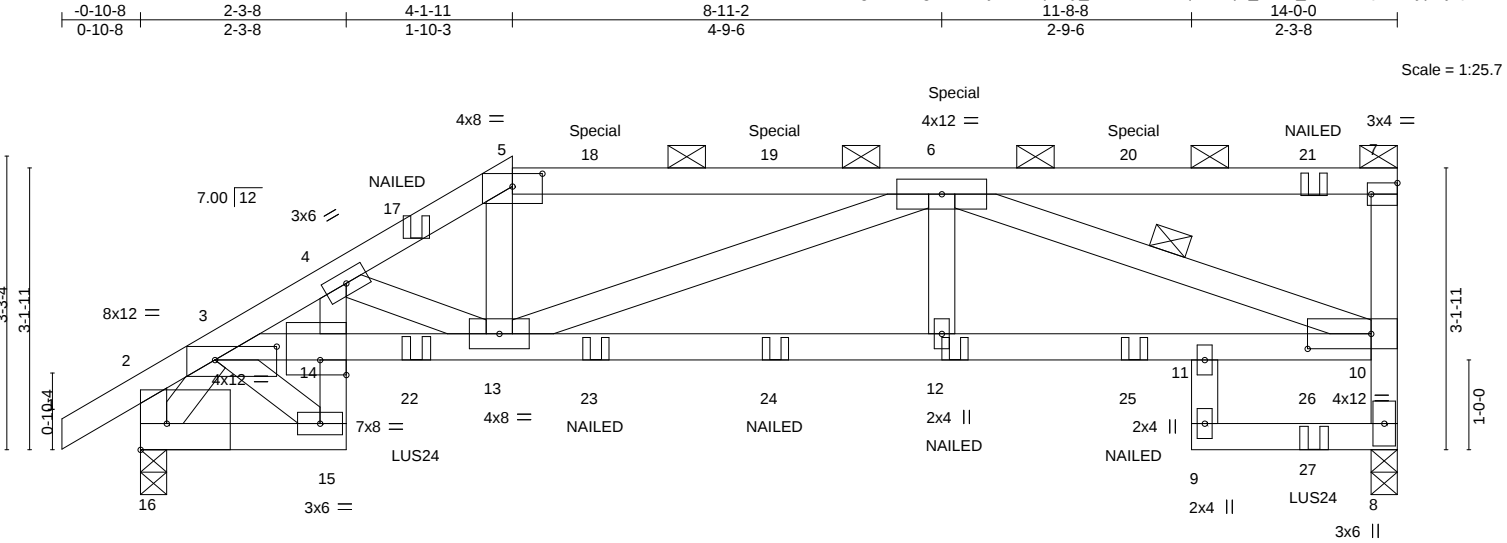


Plate Offsets (X,Y)--	[2:Edge,0-3-8], [3:0-8-4,0-1-13], [5:0-4-0,0-1-11], [7:Edge,0-1-8], [10:0-8-8,0-2-0], [14:0-3-8,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.10 12-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.19 12-13	>880	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.16 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 63 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-6 max.): 5-7.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-10: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 6-10
WEBS 2x4 SPF No.2	

REACTIONS. (size) 8=0-3-8, 16=0-3-8
Max Horz 16=116(LC 7)
Max Uplift 8=433(LC 5), 16=397(LC 8)
Max Grav 8=1563(LC 1), 16=1492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-3554/1084, 4-5=-2860/799, 5-6=-2473/718, 8-10=-1513/438, 7-10=-270/119
BOT CHORD 15-16=-338/936, 14-15=-292/821, 3-14=-962/2889, 13-14=-997/3015, 12-13=-836/2862, 11-12=-836/2862, 10-11=-839/2856
WEBS 5-13=-175/829, 6-13=-468/159, 6-12=0/418, 6-10=-2876/808, 4-14=-296/690, 4-13=-524/255, 2-16=-259/110, 3-15=-1122/424, 3-16=-1542/379

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=433, 16=397.
 - This truss 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 10-0-0 oc max. starting at 3-0-14 from the left end to 13-0-14 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 219 lb down and 130 lb up at 5-0-14, 218 lb down and 130 lb up at 7-0-14, and 218 lb down and 130 lb up at 9-0-14, and 218 lb down and 130 lb up at 11-0-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



August 11, 2021

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385520
2895604	C19	Half Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:19 2021 Page 2
ID:E5coXNwXg6dPCXgLptlo7ky4NV8-plt5y_WZUkTUxrVqUSDqC_sLB4_U9Fz??QEd3cypHyQ

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-70, 5-7=-70, 15-16=-20, 11-14=-20, 8-9=-20
 - Concentrated Loads (lb)
 - Vert: 12=-42(B) 6=-218(B) 18=-218(B) 19=-218(B) 20=-218(B) 21=-53(B) 22=-438(B) 23=-42(B) 24=-42(B) 25=-42(B) 26=-221(B)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

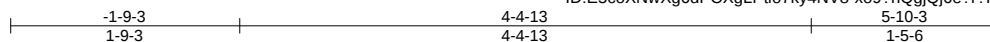
Job 2895604	Truss CJ1	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385521
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:32 2021 Page 1

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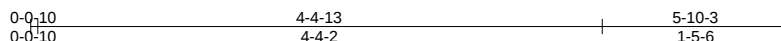
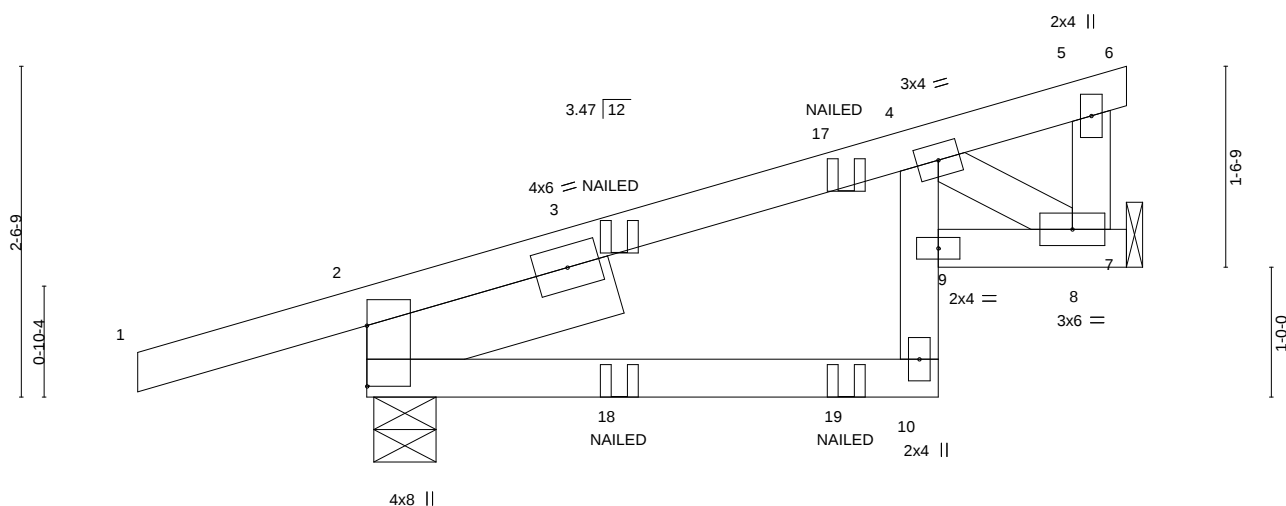


Plate Offsets (X,Y)-- [2:Edge,0-0-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.01 10-15	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.02 10-15	>999	180
BCLL 0.0	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.01 8	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP				
				PLATES	GRIP		
				MT20	197/144		
				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 2-0-0

BRACING-

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

REACTIONS.

(size) 8=Mechanical, 2=0-5-12
Max Horz 2=76(LC 5)
Max Uplift 8=79(LC 8), 2=156(LC 4)
Max Grav 8=224(LC 1), 2=423(LC 1)

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

BOT CHORD 8-9=-115/279
WEBS 4-8=-325/148

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 8 except (jt=lb) 2=156.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 5-6=-20, 10-11=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 18=-11(B)



August 11, 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 2895604	Truss CJ2	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385522
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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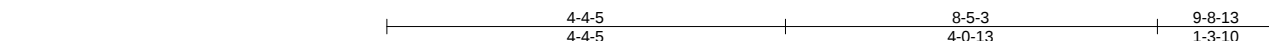
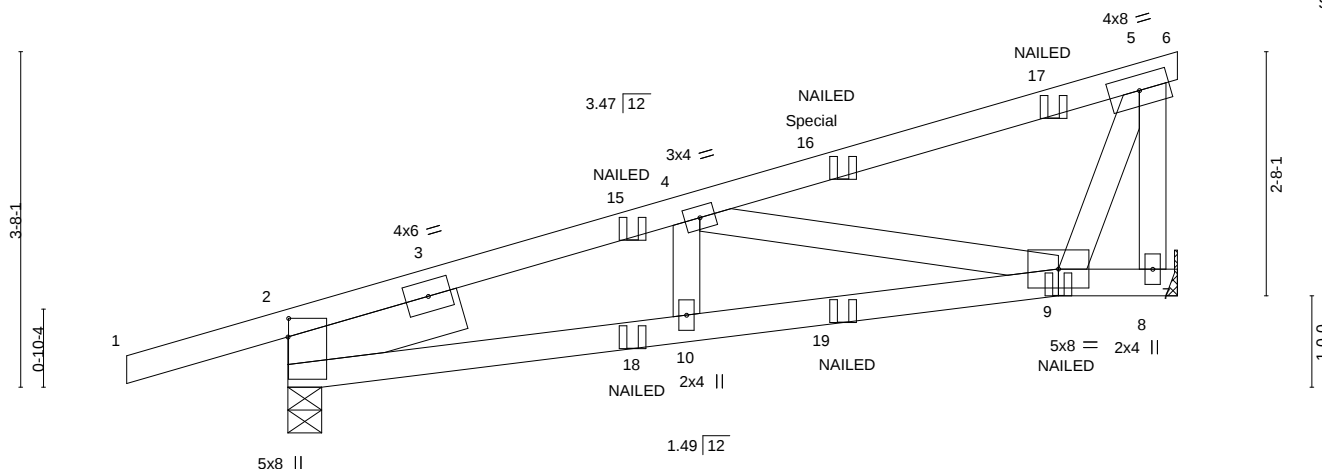


Plate Offsets (X,Y)-- [2:0-2-7,0-0-1]

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 0.48	Vert(LL)	-0.04	9-10	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.07	9-10	>999	180	197/144
BCLL 0.0	Rep Stress Incr	NO	WB 0.22	Horz(CT)	0.01	8	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 39 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 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

REACTIONS.

(size) 8=Mechanical, 2=0-4-7
Max Horz 2=113(LC 22)
Max Uplift 8=204(LC 8), 2=-209(LC 4)
Max Grav 8=551(LC 1), 2=608(LC 1)

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

TOP CHORD 2-4=-969/324, 4-5=-315/96, 5-8=-520/198
BOT CHORD 2-10=-354/907, 9-10=-358/918
WEBS 5-9=-110/368, 4-9=-679/288

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=204, 2=209.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 114 lb up at 5-10-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 5-6=-20, 9-11=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 9=-32(B) 15=-6(B) 16=-88(F=-85, B=-3) 17=-42(B) 18=-1(B) 19=-5(B)



August 11, 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 2895604	Truss CJ3	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385523
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

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2-11-7 2-11-7 5-10-13 2-11-7

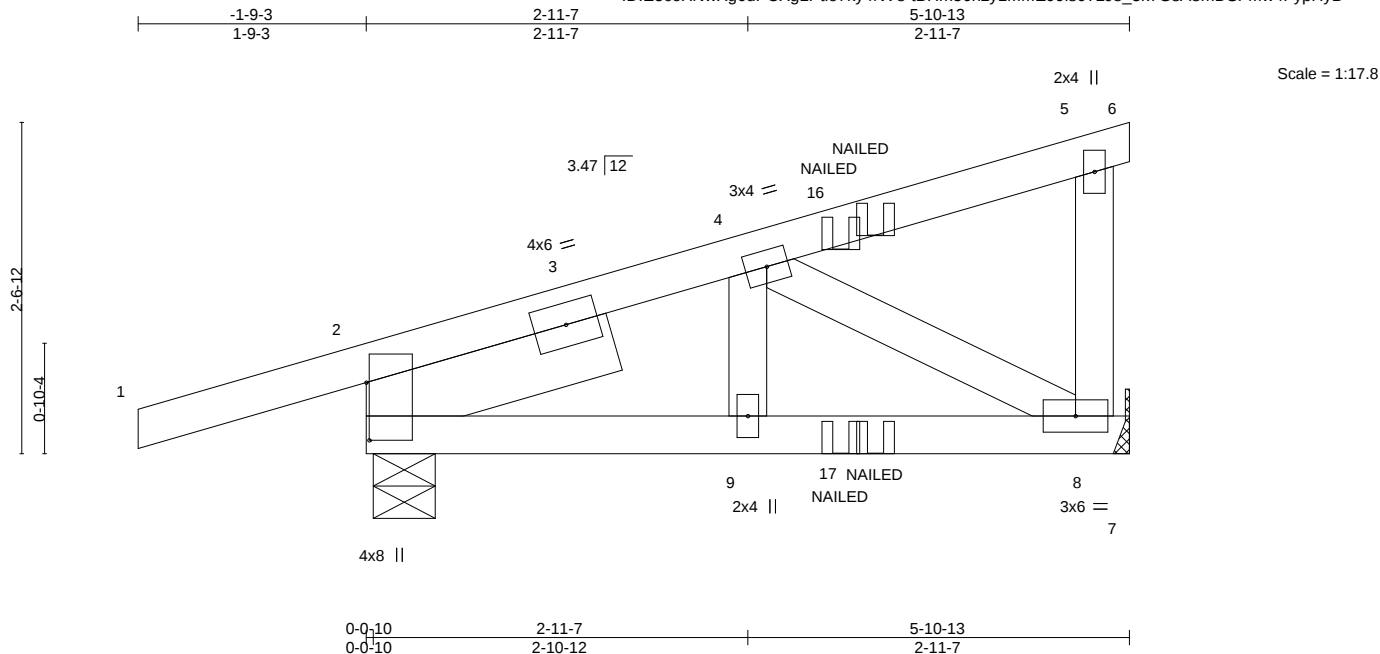


Plate Offsets (X,Y)--	[2:0-5-6,0-0-4]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.01 8-9 >999 240
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01 8-9 >999 180
BCLL 0.0	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.00 8 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP		
					PLATES MT20 GRIP 197/144
					Weight: 26 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 2-0-0

BRACING-

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

REACTIONS.

(size) 8=Mechanical, 2=0-5-12
Max Horz 2=99(LC 7)
Max Uplift 8=-85(LC 8), 2=-156(LC 4)
Max Grav 8=234(LC 1), 2=424(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 8 except (jt=lb) 2=156.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 5-6=-20, 7-10=-20
Concentrated Loads (lb)
Vert: 16=-0(B) 17=-17(B)



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

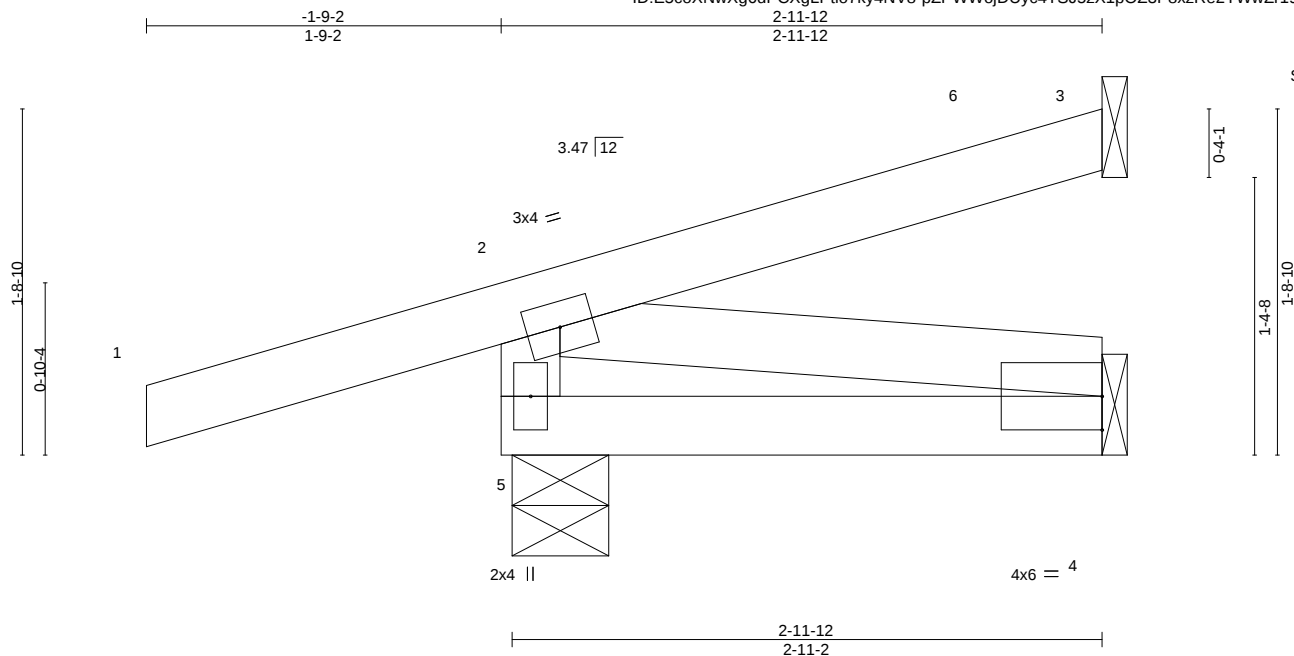
Job 2895604	Truss CJ4	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385524
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:36 2021 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-5-12, 3=Mechanical, 4=Mechanical
Max Horz 5=53(LC 8)
Max Uplift 5=122(LC 8), 3=-28(LC 12)
Max Grav 5=305(LC 1), 3=51(LC 1), 4=57(LC 3)

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

TOP CHORD 2-5=-276/279

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-9-2 to 2-5-13, Exterior(2R) 2-5-13 to 2-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=122.
- 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.



August 11, 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 2895604	Truss D1	Truss Type Roof Special	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385525
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

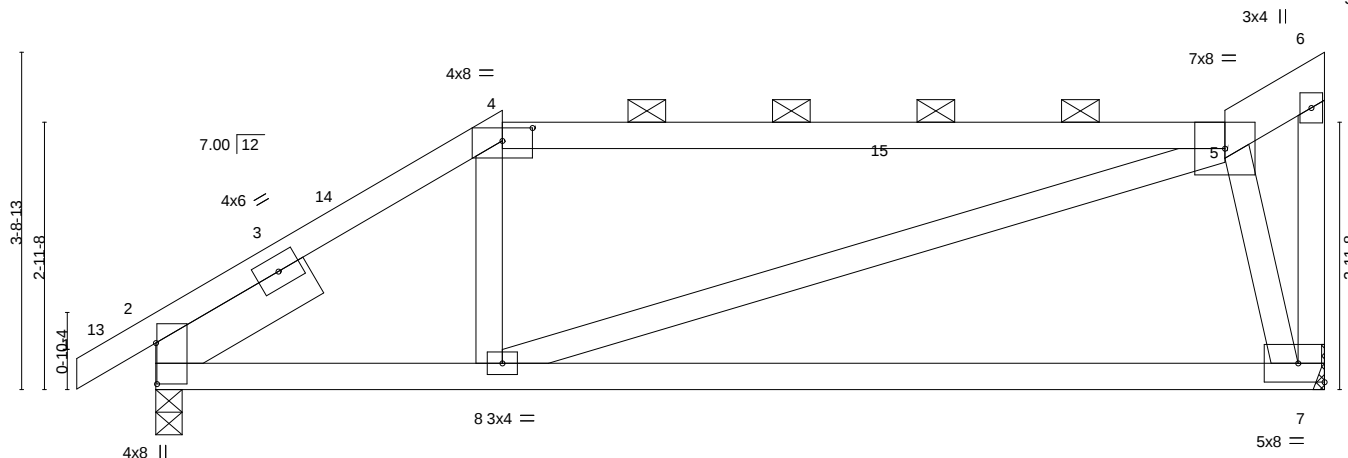
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:37 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-Hmzuk8ksFGkx5cuHXY2xncSwLCINTZf8DbahaypHy8

Job Reference (optional)

-0-10-8 0-10-8	3-10-1 3-10-1	11-10-1 8-0-0	12-11-4 1-1-4
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Scale = 1:25.5



	3-10-1 3-10-1	11-10-1 8-0-0	12-11-4 1-1-4
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Plate Offsets (X,Y)-- [2:0-5-7,0-0-2], [4:0-4-0,0-1-11]									
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)	-0.17 7-8 >895	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.35 7-8 >433	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01 2 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 55 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-6-8 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
Max Horz 2=132(LC 11)
Max Uplift 7=-138(LC 12), 2=-143(LC 12)
Max Grav 7=574(LC 1), 2=639(LC 1)

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

TOP CHORD 2-4=-793/163, 4-5=-670/187, 6-7=-157/300
BOT CHORD 2-8=-211/669, 7-8=-97/320
WEBS 5-8=-126/366, 5-7=-830/315

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-1, Exterior(2R) 3-10-1 to 8-0-15, Interior(1) 8-0-15 to 12-9-8 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=138, 2=143.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss D2	Truss Type Roof Special	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385526
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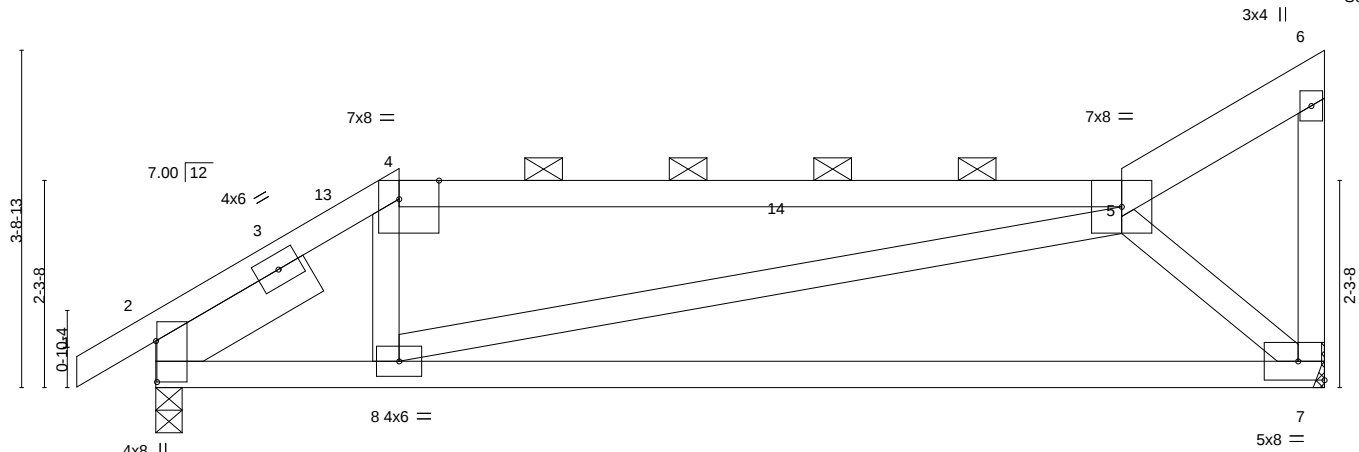
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:38 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-myXHxUkU0ZsojmSU5y3HU_9cnkWA6w7oNtK7D0ypHy7

-0-10-8 0-10-8	2-8-5 2-8-5	10-8-5 8-0-0	12-11-4 2-2-15
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Scale = 1:25.5



		2-8-5		6-8-5		10-8-5		12-11-4	
		2-8-5		4-0-0		4-0-0		2-2-15	
Plate Offsets (X,Y)-- [2:0-5-7,0-0-2], [4:0-5-5,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	0.81	Vert(LL)	-0.25 7-8 >608	240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.52 7-8 >296	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01 7 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 55 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-8 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
Max Horz 2=132(LC 11)
Max Uplift 7=138(LC 12), 2=-143(LC 12)
Max Grav 7=574(LC 1), 2=639(LC 1)

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

TOP CHORD 2-4=-879/175, 4-5=-751/174
BOT CHORD 2-8=-211/756, 7-8=-167/632
WEBS 4-8=0/348, 5-7=-816/295

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4, Interior(1) 6-11-4 to 12-9-8 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=138, 2=143.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 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/HAWTHORN RIDGE#156/MO	I47385527
2895604	D3	Roof Special Girder	1	1		

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:40 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-iLe1M9mkXB6Wy4csCN6lZPE15Y9ramY5qBpEluyPhy5

0-10-8	1-6-10	5-6-10	9-6-10	12-11-4
0-10-8	1-6-10	4-0-0	4-0-0	3-4-10

Scale = 1:26.0

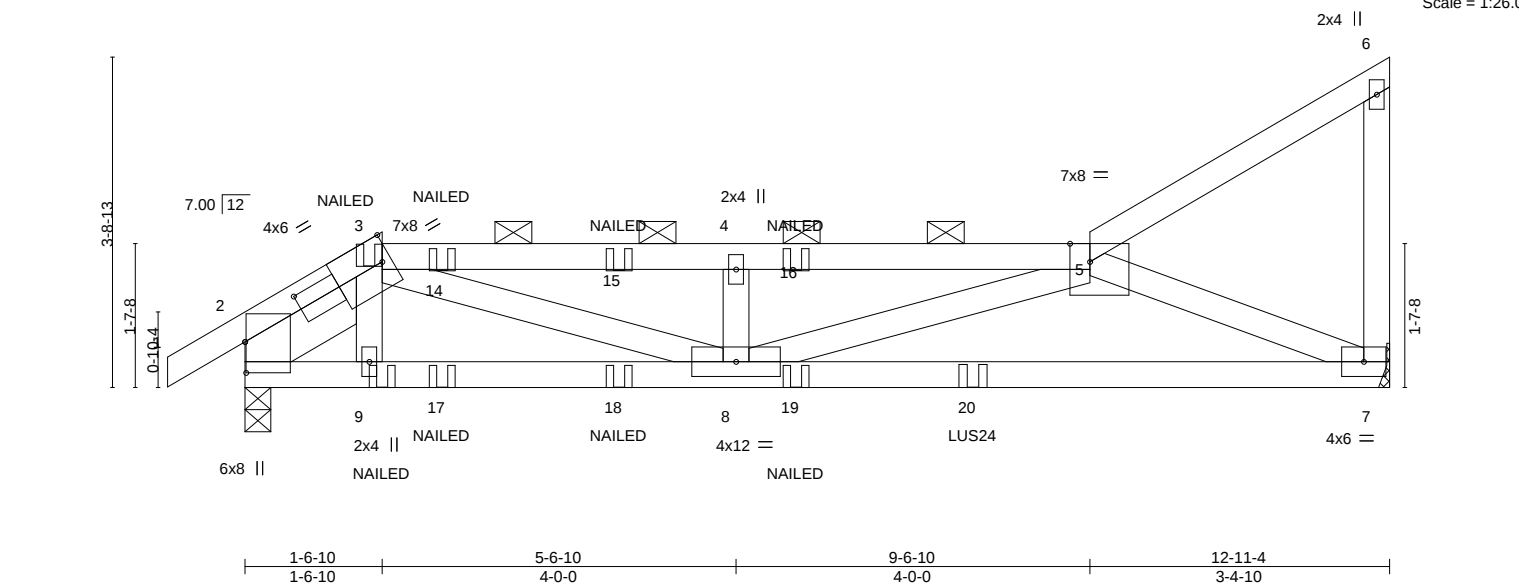


Plate Offsets (X,Y)-- [2:0-8-13,0-2-0], [2:0-4-3,0-0-2], [3:0-1-4,Edge], [5:0-2-11,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.16	7-8	>984	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.33	7-8	>463	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 1-6-14

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-12 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-3-8
Max Horz 2=135(LC 7)
Max Uplift 7=-184(LC 8), 2=-211(LC 8)
Max Grav 7=771(LC 1), 2=834(LC 1)

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

TOP CHORD 2-3=-971/266, 3-4=-2205/485, 4-5=-2194/490
BOT CHORD 2-9=-275/880, 8-9=-275/880, 7-8=-330/1329
WEBS 3-8=-251/1357, 5-8=-198/913, 5-7=-1397/390

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) The Fabrication Tolerance at joint 3 = 4%
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=184, 2=211.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 8-2-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 12) 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, 5-6=-70, 7-10=-20



August 11, 2021

Continued on page 2

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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/HAWTHORN RIDGE#156/MO	I47385527
2895604	D3	Roof Special Girder	1	1	Job Reference (optional)	

LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 9=-5(F) 14=-17(F) 15=-17(F) 16=-17(F) 17=-38(F) 18=-38(F) 19=-38(F) 20=-221(F)

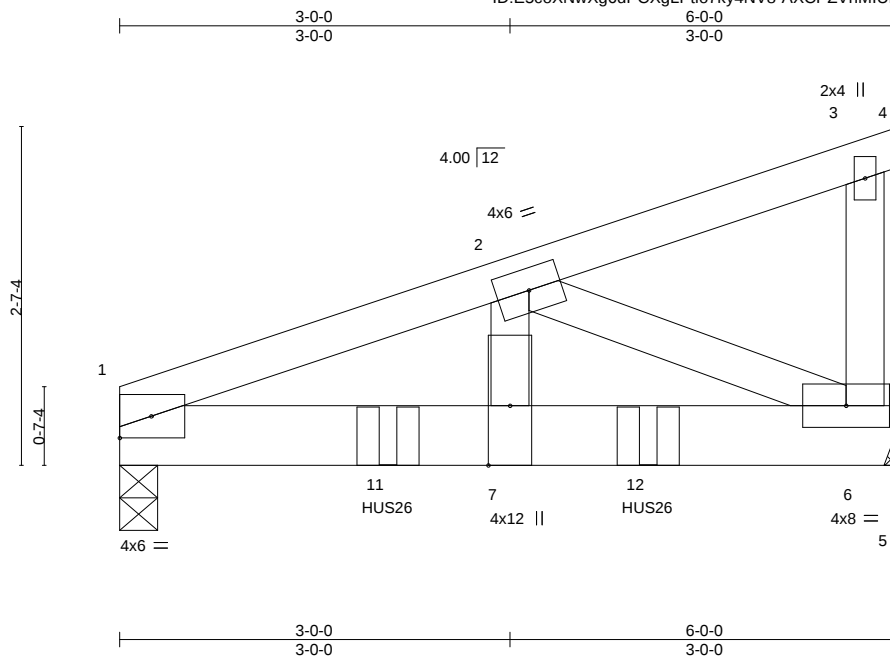
Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385528
2895604	G1	Jack-Closed Girder	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-AXCPZVnMIUENaEB3m4d_5dnGHvVZJDbF3rZoqLypHy4



Scale = 1:17.7

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 0.15	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.04	6-7	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.01	6	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 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 6=Mechanical
Max Horz 1=93(LC 7)
Max Uplift 1=-188(LC 4), 6=-231(LC 8)
Max Grav 1=1071(LC 1), 6=1204(LC 1)

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

TOP CHORD 1-2=-1913/334
BOT CHORD 1-7=-327/1786, 6-7=-327/1786
WEBS 2-7=-179/1217, 2-6=-1957/382

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=188, 6=231.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-20, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-874(B) 12=-874(B)



August 11, 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

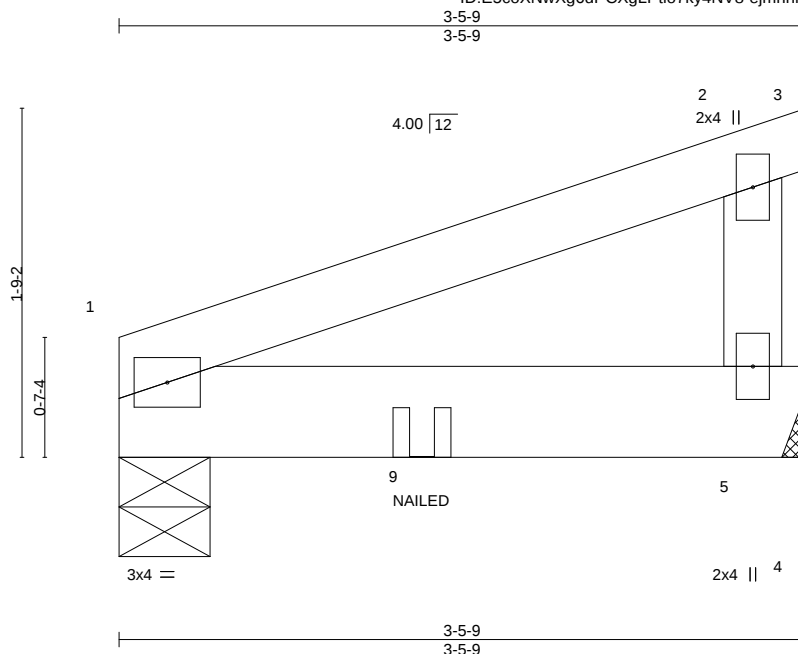
Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385529
2895604	G2	Jack-Closed Girder	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:42 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-ejmnrm_3oMEBNmFKo8DeqJRHm_z2INOIVLNnypHy3



Scale = 1:11.6

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 0.14	Vert(LL)	-0.01	5-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.01	5-8	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except end verticals.

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

REACTIONS.

(size) 1=0-5-8, 5=Mechanical
Max Horz 1=56(LC 7)
Max Uplift 1=7(LC 4), 5=25(LC 8)
Max Grav 1=237(LC 1), 5=241(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-20, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-180(F)



August 11, 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

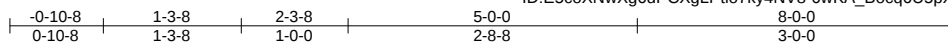
Job 2895604	Truss J1	Truss Type Jack-Partial	Qty 4	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385530
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:43 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-6wKA_Bocq6U5pXLRuVfSB2sU7II8nCdYX92uvDypHy2



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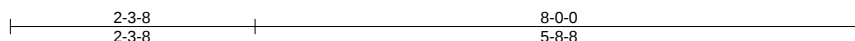
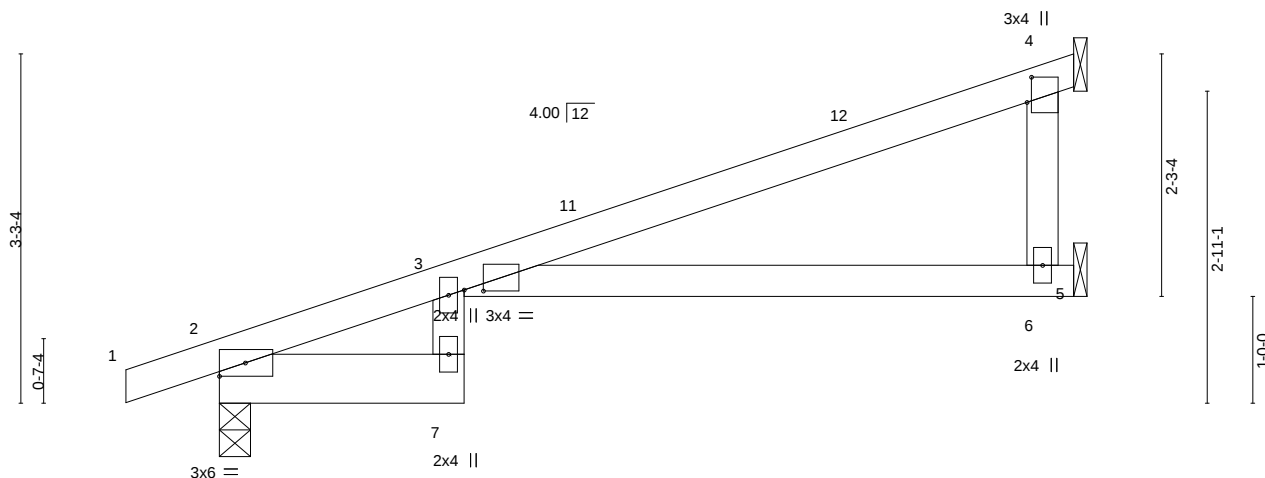


Plate Offsets (X,Y)-- [3:0-2-3,0-0-2], [4:0-2-13,0-0-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.25	7	>365	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.40	7	>230	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.18	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
2-7: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=Mechanical, 6=Mechanical
Max Horz 2=121(LC 8)
Max Uplift 2=-97(LC 8), 4=-121(LC 8)
Max Grav 2=411(LC 1), 4=288(LC 1), 6=123(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 7-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 except (jt=lb) 4=121.
- 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.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



August 11, 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 2895604	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385531
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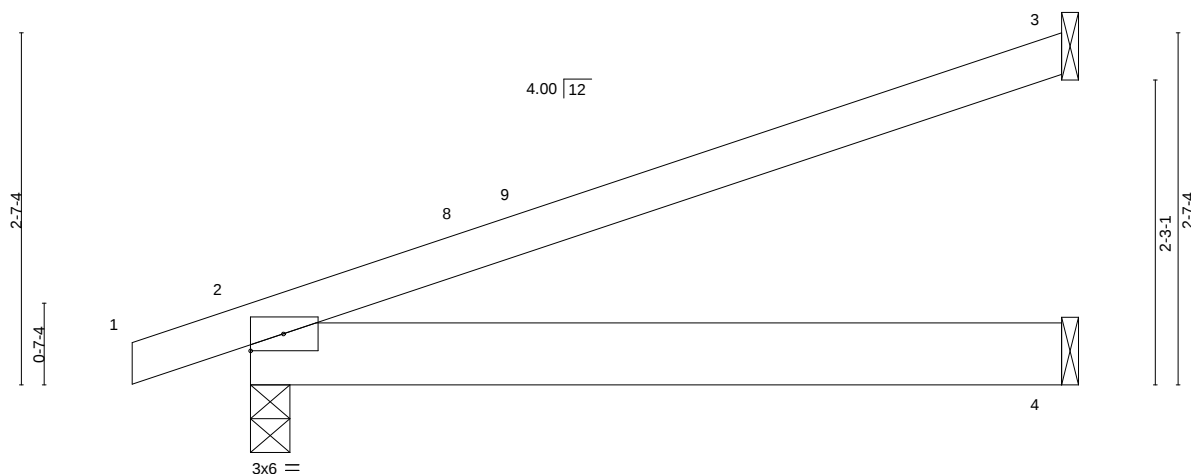
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:52 2021 Page 1

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0-10-8 0-10-8 6-0-0 6-0-0

Scale = 1:17.0



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03 4-7 >999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05 4-7 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01 3 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=97(LC 8)
Max Uplift 3=-75(LC 12), 2=-84(LC 8), 4=-1(LC 12)
Max Grav 3=163(LC 1), 2=333(LC 1), 4=123(LC 3)

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

NOTES-

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



August 11, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO
2895604	J3	Jack-Open	9	1	I47385532

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:53 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-prxy5cwuUAlg046MTbqob8Glinkg7km0qiTQEypHxu

-0-10-8 4-3-8 4-11-4
0-10-8 4-3-8 0-7-12

Scale = 1:21.6

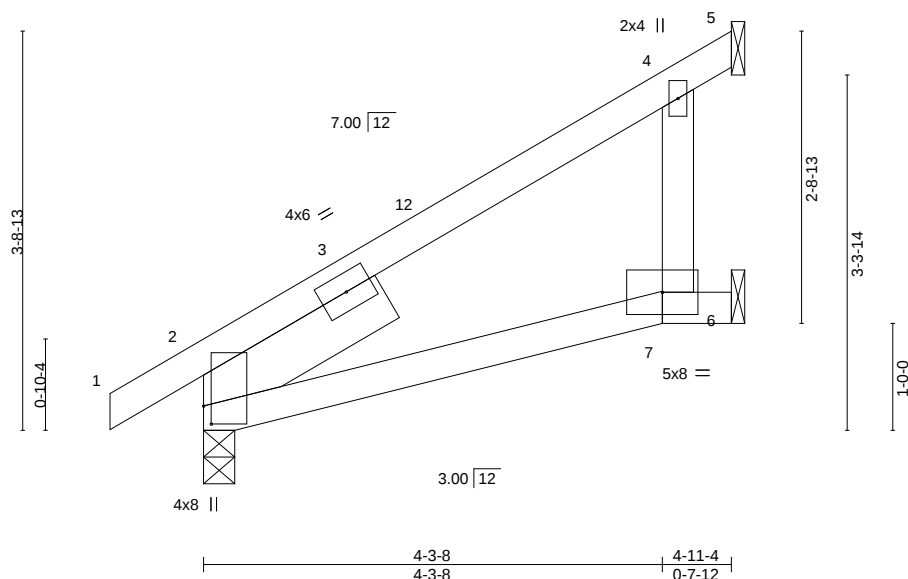


Plate Offsets (X,Y)--	[2:0-2-0,0-0-14]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	0.05 7-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.06 7-10	>957	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.03 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 19 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 2-0-0

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=134(LC 12)
Max Uplift 5=-100(LC 12), 2=-22(LC 12)
Max Grav 5=218(LC 19), 2=286(LC 1), 6=12(LC 3)

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

NOTES-

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



August 11, 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

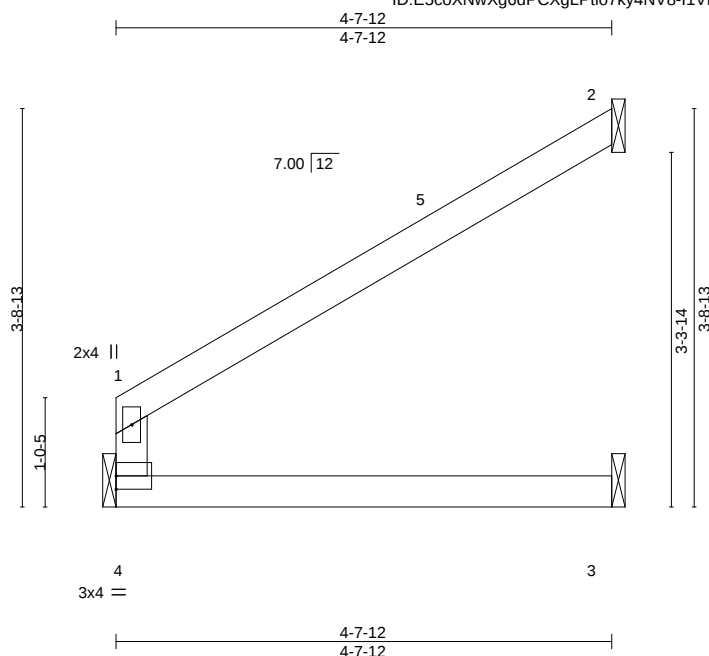
Job 2895604	Truss J4	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385533
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:54 2021 Page 1

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Scale = 1:21.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	0.03 3-4	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.04 3-4	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 12 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, 2=Mechanical, 3=Mechanical

Max Horz 4=94(LC 12)

Max Uplift 2=93(LC 12), 3=-1(LC 12)

Max Grav 4=200(LC 1), 2=152(LC 19), 3=84(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

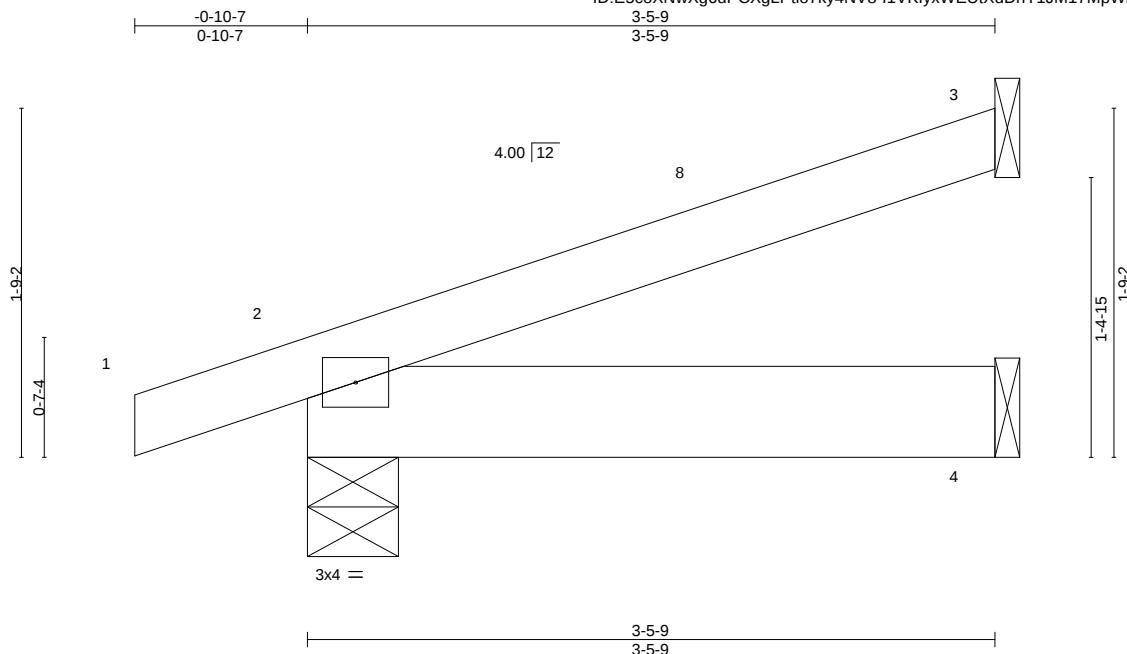
Job 2895604	Truss J5	Truss Type Jack-Open	Qty 3	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385534
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:54 2021 Page 1

ID:E5coXNwXg6dPCXgLPtio7ky4NV8-11VKIyxWEUtXdDhY1JM17MpWfB6fsBL92MC_n5ypHxt



Scale = 1:11.6

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 0.11	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=62(LC 8)
Max Uplift 3=-40(LC 12), 2=-65(LC 8), 4=-3(LC 12)
Max Grav 3=87(LC 1), 2=222(LC 1), 4=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-7 to 2-1-9, Interior(1) 2-1-9 to 3-4-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss J6	Truss Type Jack-Partial	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385535
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:55 2021 Page 1

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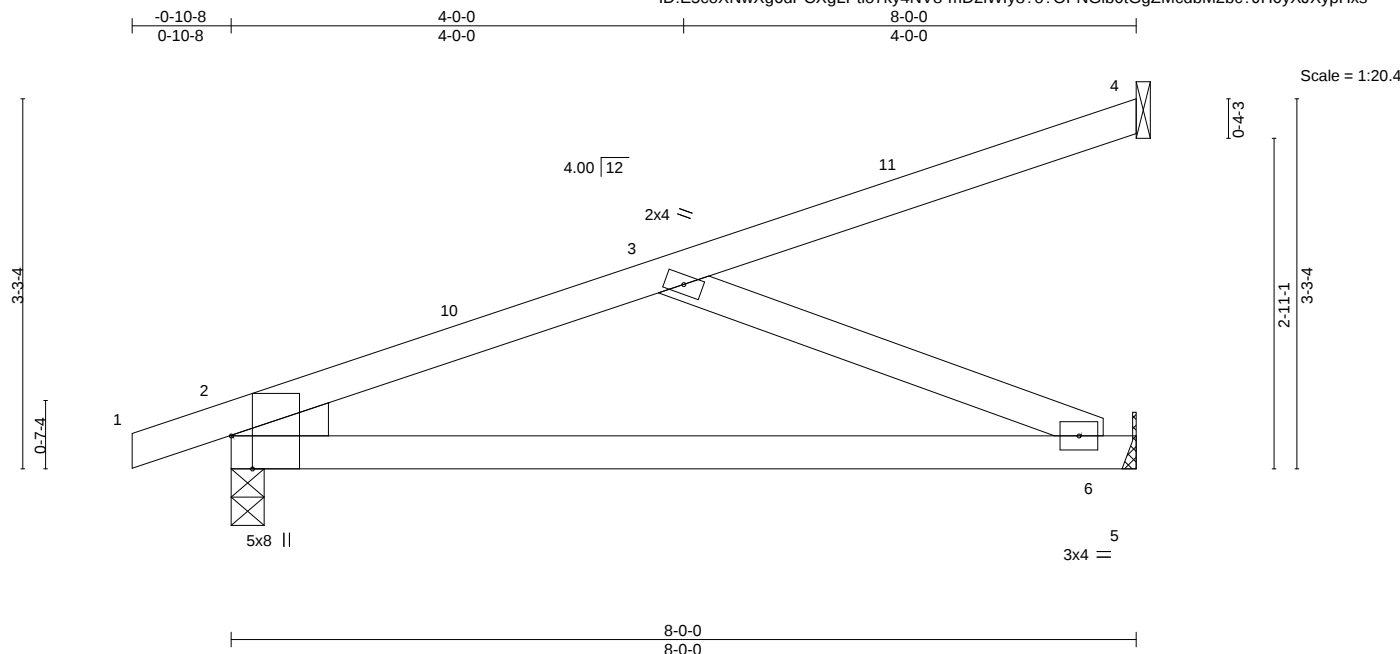


Plate Offsets (X,Y)-- [2:0-3-8,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.10	6-9	>958	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.20	6-9	>467	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 26 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 2=0-3-8
Max Horz 2=124(LC 8)
Max Uplift 4=60(LC 8), 5=41(LC 8), 2=98(LC 8)
Max Grav 4=115(LC 1), 5=239(LC 1), 2=422(LC 1)

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

TOP CHORD 2-3=-504/218
BOT CHORD 2-6=-333/474
WEBS 3-6=-510/359

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-11-4 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.
- 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.



August 11, 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 2895604	Truss J7	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385536
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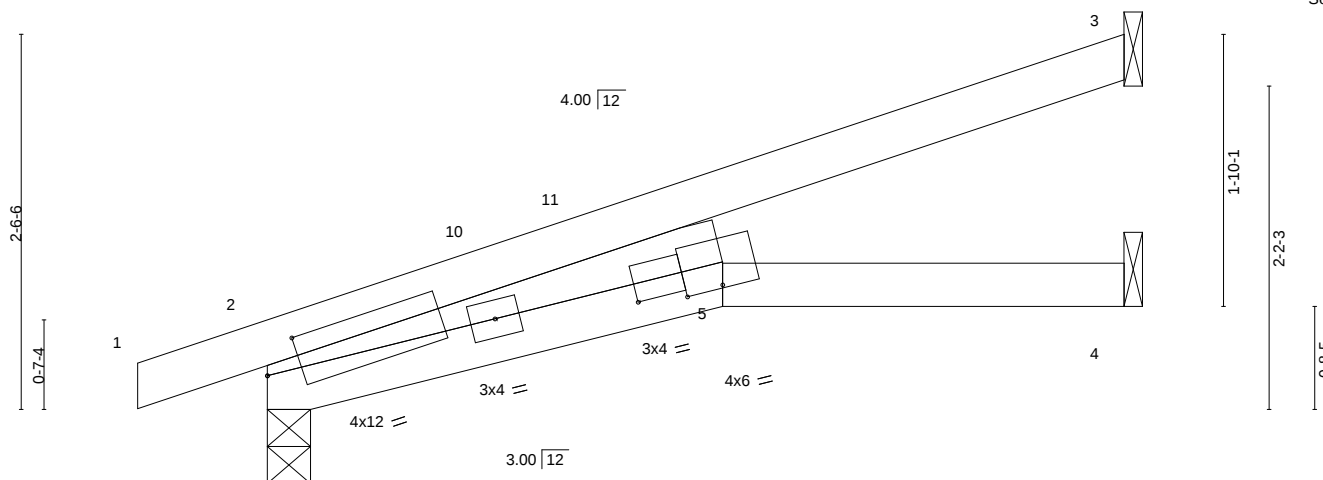
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:57 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-icASwzzPXPf5UhP7iRvkl_RtrP8W3Y4bIKReNPypHxq

-0-10-8	3-0-14	5-9-6
0-10-8	3-0-14	2-8-8

Scale = 1:15.5



3-0-14	5-9-6
3-0-14	2-8-8

Plate Offsets (X,Y)-- [2:0-2-13,0-2-5], [2:2-6-9,0-1-8], [5:0-3-0,0-0-4]												
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	0.69	Vert(LL)	0.14	5	>484	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.19	5	>362	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 3-2-0

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=94(LC 8)
Max Uplift 3=-86(LC 12), 2=-80(LC 8)
Max Grav 3=226(LC 1), 2=323(LC 1), 4=53(LC 3)

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

NOTES-

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



August 11, 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 2895604	Truss J8	Truss Type Half Hip Girder	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385537
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:58 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-Aokq8J_1ljNy6r_KG9QzIC_?JoR0o_klz_ABwsypHxp

Job Reference (optional)



5x8 =

Scale = 1:19.9

NAILED

3x6 ||

4

5

4.00 | 12

1

2

3

2x4 ||

3x4 =

8 Special

2x4 ||

7

3x6 =

3x6 =

2-3-8

6-0-4

8-0-0

2-3-8

3-8-12

1-11-12

Plate Offsets (X,Y)-- [2:0-2-7,0-1-8], [3:0-5-3,0-0-14], [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 0.84	Vert(LL)	-0.21	9	>451	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.35	9	>264	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.10	Horz(CT)	0.16	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2 *Except*
3-9: 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 7=Mechanical
Max Horz 2=93(LC 4)
Max Uplift 2=-139(LC 4), 5=-25(LC 4), 7=-165(LC 4)
Max Grav 2=466(LC 1), 5=60(LC 1), 7=458(LC 1)

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

TOP CHORD 3-4=-651/214
BOT CHORD 3-8=-238/629, 7-8=-227/598
WEBS 4-8=-92/256, 4-7=-723/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 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 except (jt=lb) 2=139, 7=165.
- This truss 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 218 lb down and 165 lb up at 6-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



August 11, 2021

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385537
2895604	J8	Half Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:58 2021 Page 2
ID:E5coXNwXg6dPCXgLptlo7ky4NV8-Aokq8J_1ljNy6r_KG9QzIC_?JoR0o_klz_ABwsypHxp

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 4-5=-70, 9-10=-20, 3-6=-20
Concentrated Loads (lb)
Vert: 4=-4(F) 8=-218(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385538
2895604	J9	Jack-Open	1	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:59 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-e?IDLF?f30Vpk?ZWqsxCqPWK_CpWXRauCewISlypHxo

-0-10-8
0-10-8

4-1-7
4-1-7

Scale = 1:19.2

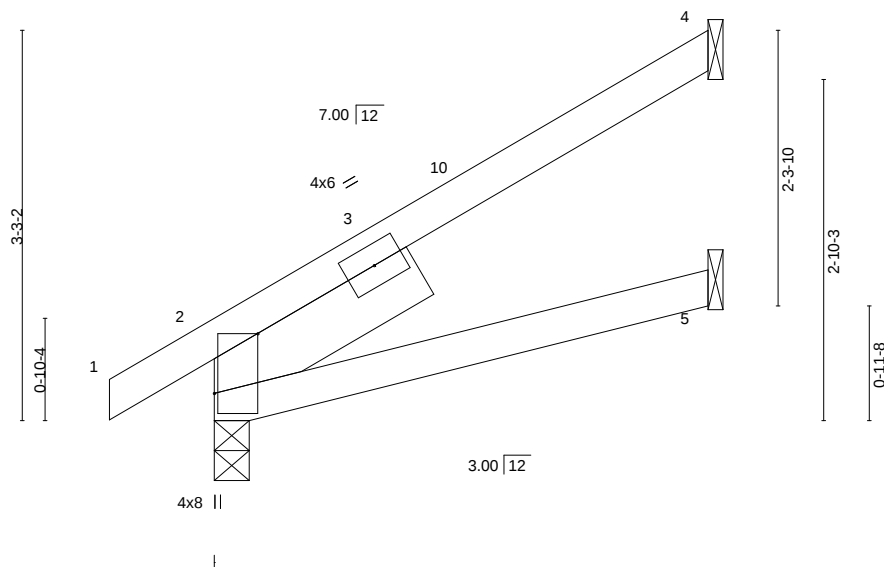


Plate Offsets (X,Y)--		[2:0-6-0,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02 5-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03 5-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01 2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 15 lb	FT = 20%

LUMBER-

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

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=114(LC 12)
Max Uplift 4=76(LC 12), 2=19(LC 12), 5=8(LC 12)
Max Grav 4=128(LC 19), 2=250(LC 1), 5=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

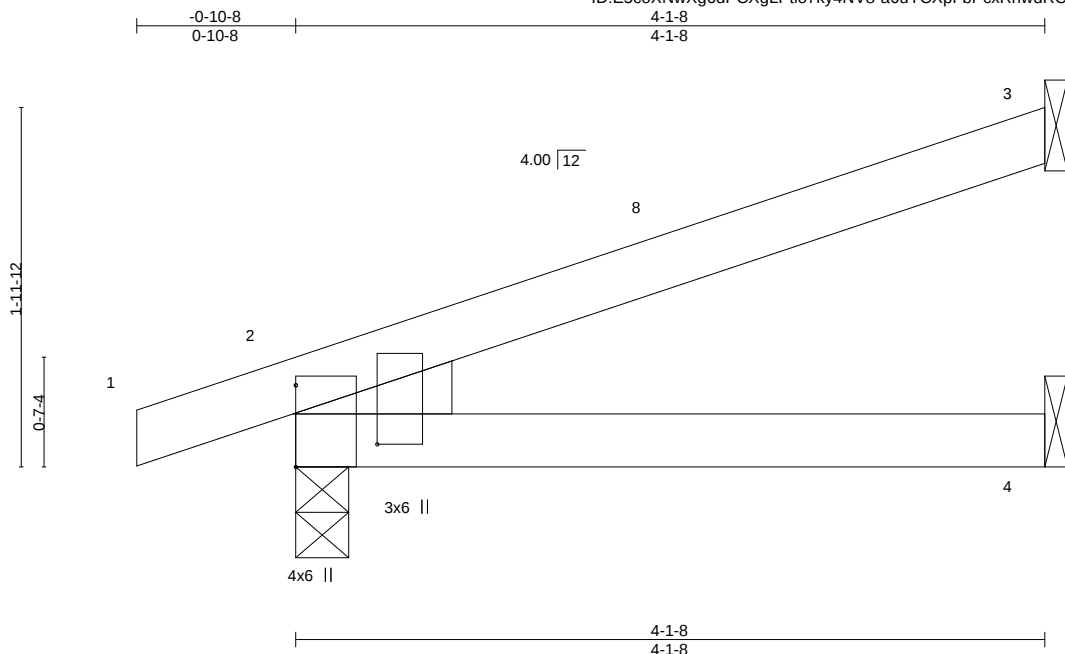
Job 2895604	Truss J10	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385539
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:44 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-a6uYCXpFbPcxRhwdCAhjFPmu9hqWfthlpnSRgypHy1



Scale = 1:12.7

Plate Offsets (X,Y)--		[2:0-3-14,0-5-6]							
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 0.20	Vert(LL)	0.02	4-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999	180	197/144
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, 4=Mechanical, 2=0-3-8

Max Horz 2=71(LC 8)

Max Uplift 3=-52(LC 12), 4=-1(LC 12), 2=-69(LC 8)

Max Grav 3=119(LC 1), 4=72(LC 3), 2=251(LC 1)

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

NOTES-

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



August 11, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss J11	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385540
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

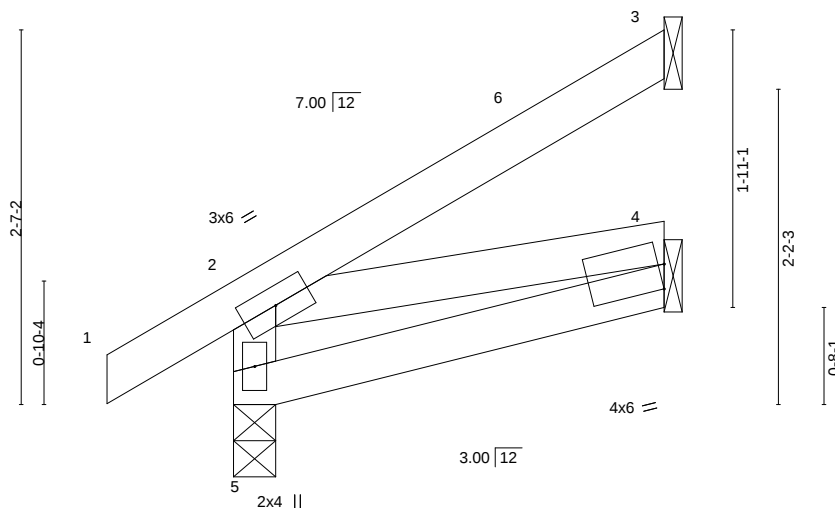
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:45 2021 Page 1

ID:E5coXNwXg6dPCXgLPlto7ky4NV8-2ISwPtqtMjko2rVq?whwGSxz6Z2XF6mq_TX?z6ypHy0

-0-10-8
0-10-8

2-11-12
2-11-12

Scale: 3/4"=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 0.10	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-12 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=78(LC 12)
Max Uplift 5=-20(LC 12), 3=-53(LC 12), 4=-7(LC 12)
Max Grav 5=210(LC 1), 3=88(LC 19), 4=57(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss J12	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385541
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:47 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-?hZgqYr7uK?WI9eC7LkOLt0KLNk3j0c7Rn062_ypHy_

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

Scale = 1:12.6

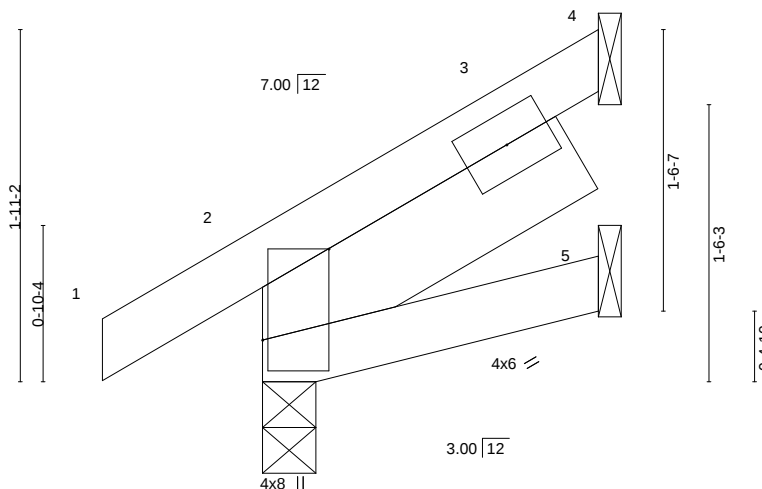


Plate Offsets (X,Y)--		[2:0-6-0,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00 8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00 8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP						Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 3=Mechanical
Max Horz 2=60(LC 12)
Max Uplift 2=-1(LC 12), 3=-55(LC 12)
Max Grav 2=141(LC 1), 5=21(LC 3), 3=80(LC 19)

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

NOTES-

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



August 11, 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 2895604	Truss J13	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385542
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Builders FirstSource (Valley Center),

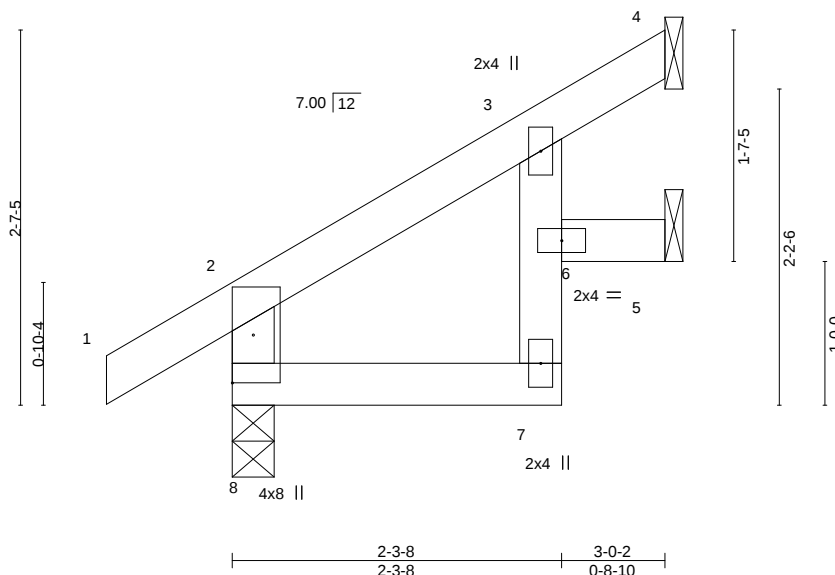
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:48 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-Ti732usife7NvIDPg2Fdu5ZUfm3OSTsHgRlfZRypHxz

0-10-8 2-3-8 3-0-2
0-10-8 2-3-8 0-8-10

Scale: 3/4"=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 0.08	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						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 3-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=79(LC 12)
Max Uplift 8=-20(LC 12), 4=-28(LC 12), 5=-33(LC 12)
Max Grav 8=211(LC 1), 4=61(LC 19), 5=62(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-14, Interior(1) 2-0-14 to 2-11-6 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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.



August 11, 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 2895604	Truss J14	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385543
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:48 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-Tt732uslfe7NvIDPg2Fdu5ZUpm43STaHgRlfZRypHxz

0-10-8 1-9-9
0-10-8 1-9-9

Scale = 1:12.5

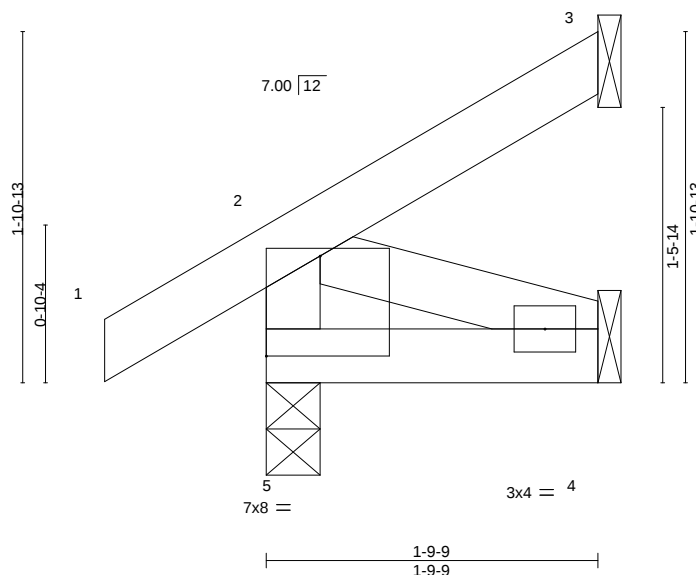


Plate Offsets (X,Y)--		[5:Edge,0-6-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 5 >999 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00 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
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-9 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=51(LC 12)
Max Uplift 5=-19(LC 12), 3=-24(LC 12), 4=-14(LC 12)
Max Grav 5=168(LC 1), 3=38(LC 19), 4=33(LC 3)

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

NOTES-

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



August 11, 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



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Chesterfield, MO 63017

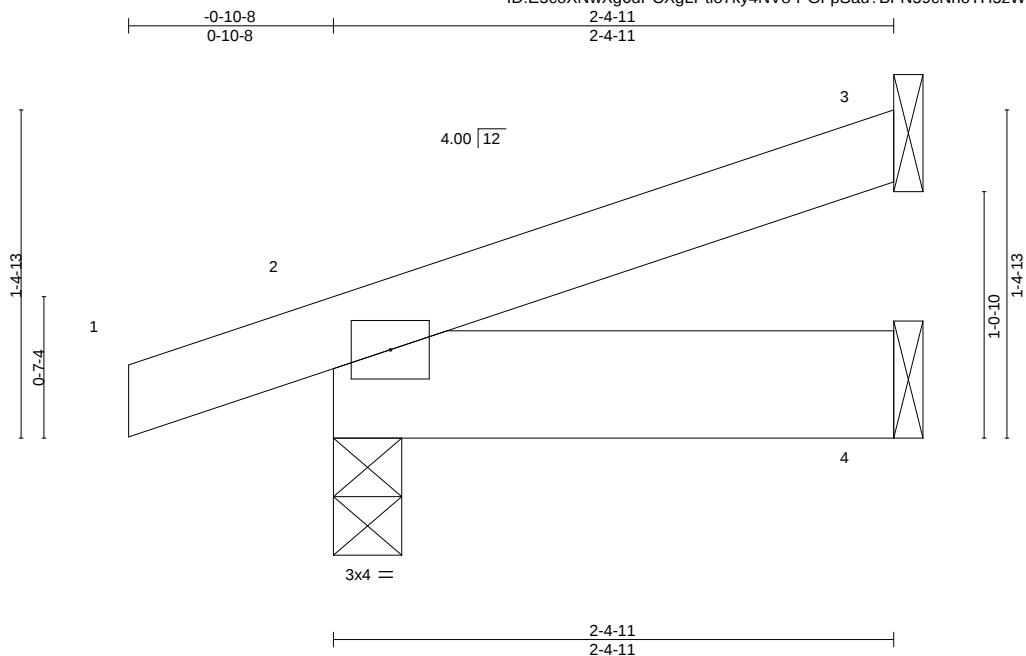
Job 2895604	Truss J15	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO Job Reference (optional)	I47385544
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:50 2021 Page 1

ID:E5coXNwXg6dPCXgLPtio7ky4NV8-PGFpSau?BFN59cNnoTH5zWrearnRwNMZ8kEmeJypHxx



Scale = 1:9.8

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 0.05	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 3=-26(LC 12), 2=-59(LC 8), 4=-2(LC 12)
Max Grav 3=56(LC 1), 2=178(LC 1), 4=48(LC 3)

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

NOTES-

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



August 11, 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



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Chesterfield, MO 63017

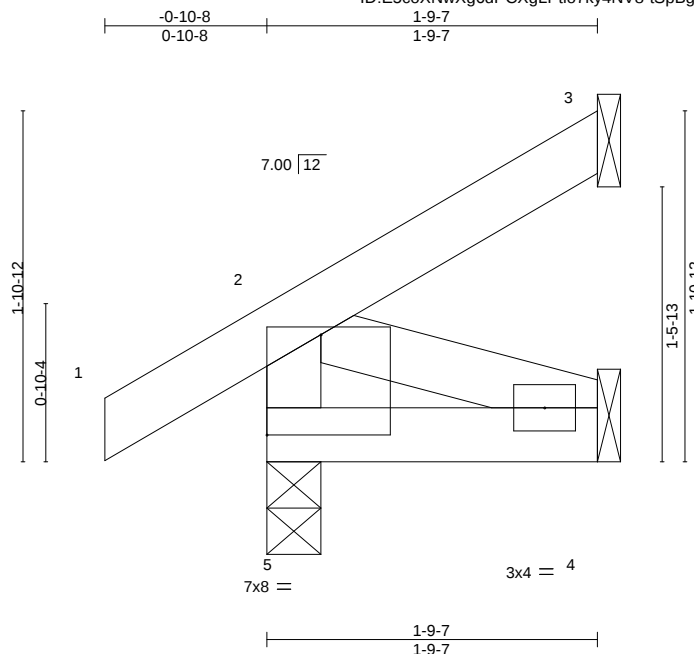
Job 2895604	Truss J17	Truss Type Jack-Open	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385545
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:36:51 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-tSpBgwueyZVymmy_MBoKVJB?3_6mfqHjMO_JAmpHxw



Scale = 1:12.4

Plate Offsets (X,Y)--		[5:Edge,0-6-8]								
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 0.07		Vert(LL) -0.00	5	>999	240	MT20
TCDL 10.0		Lumber DOL 1.15		BC 0.02		Vert(CT) -0.00	5	>999	180	197/144
BCLL 0.0		Rep Stress Incr YES		WB 0.02		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
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 5=0-3-8, 4=Mechanical
Max Horz 5=60(LC 12)
Max Uplift 3=-24(LC 12), 5=-17(LC 12), 4=-16(LC 12)
Max Grav 3=38(LC 19), 5=167(LC 1), 4=33(LC 3)

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

NOTES-

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



August 11, 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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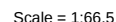
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:00 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, except 2-0-0 oc purlins (6-0-0 max.): 1-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 7-13, 5-14, 4-16
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 14-2-0.
(lb) - Max Horz 1=-449(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 18 except 1=-133(LC 11), 10=-205(LC 11), 15=-408(LC 13), 11=-256(LC 13), 12=-356(LC 13), 13=-222(LC 13), 14=-113(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 15, 11, 13, 16, 17, 18 except 1=301(LC 13), 10=427(LC 13), 12=305(LC 20), 14=276(LC 13)

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

TOP CHORD	1-2=-222/252, 6-7=-319/374, 9-10=-487/397
BOT CHORD	1-18=-390/481, 17-18=-403/495, 16-17=-401/495, 15-16=-386/490
WEBS	9-11=-268/272, 8-12=-372/387, 7-13=-255/246, 5-14=-268/200

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 1, 10, 15, 11, 12, 13, 14, 16, 17, 18 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) 16, 17, 18 except (jt=lb) 1=133, 10=205, 15=408, 11=256, 12=356, 13=222, 14=113.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 16, 17, 18.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 11, 2021



WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

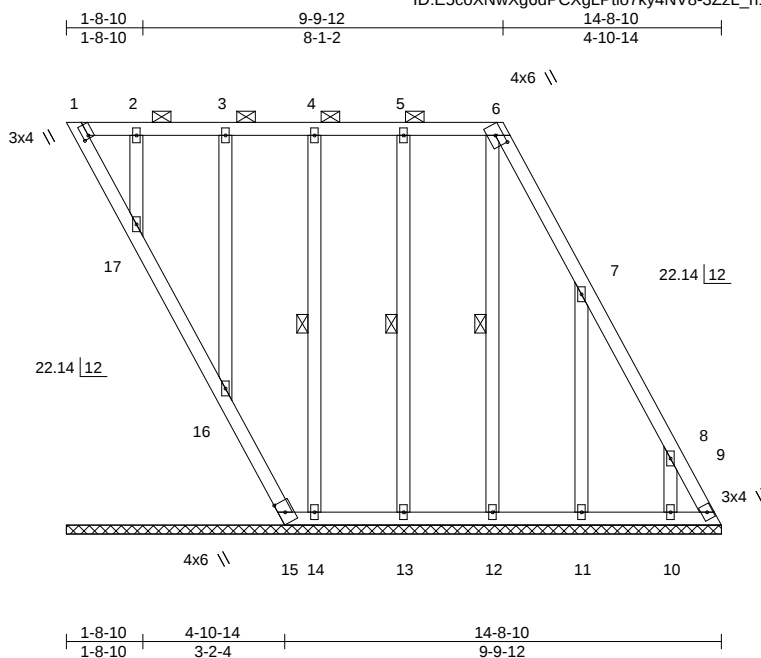
Job 2895604	Truss L2	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385547
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:02 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-3ZzL_h1XMxuObSI5V_VvS28tYQswkmrLuc8P3dypHxI



Scale = 1:51.8

Plate Offsets (X,Y)-- [1:0-0-13,0-1-8], [6:0-3-2,0-2-0]												
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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 91 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 2-0-0 oc purlins (6-0-0 max.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-12, 5-13, 4-14

REACTIONS.

All bearings 14-8-10.
(lb) - Max Horz 1=-357(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 14, 16, 17 except 1=-115(LC 11), 9=-103(LC 11), 15=-239(LC 13), 10=-274(LC 13), 11=-322(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 15, 10, 12, 13, 14, 16, 17 except 11=294(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-296/350, 8-9=-264/220
BOT CHORD 1-17=-239/284, 16-17=-242/290, 15-16=-230/287
WEBS 8-10=-285/292, 7-11=-342/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C 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
- 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.
- Bearing at joint(s) 1, 9, 15, 10, 11, 12, 13, 14, 16, 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) 12, 13, 14, 16, 17 except (jt=lb) 1=115, 9=103, 15=239, 10=274, 11=322.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 16, 17.
- This truss 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.



August 11, 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 2895604	Truss L3	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385548
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Builders FirstSource (Valley Center),

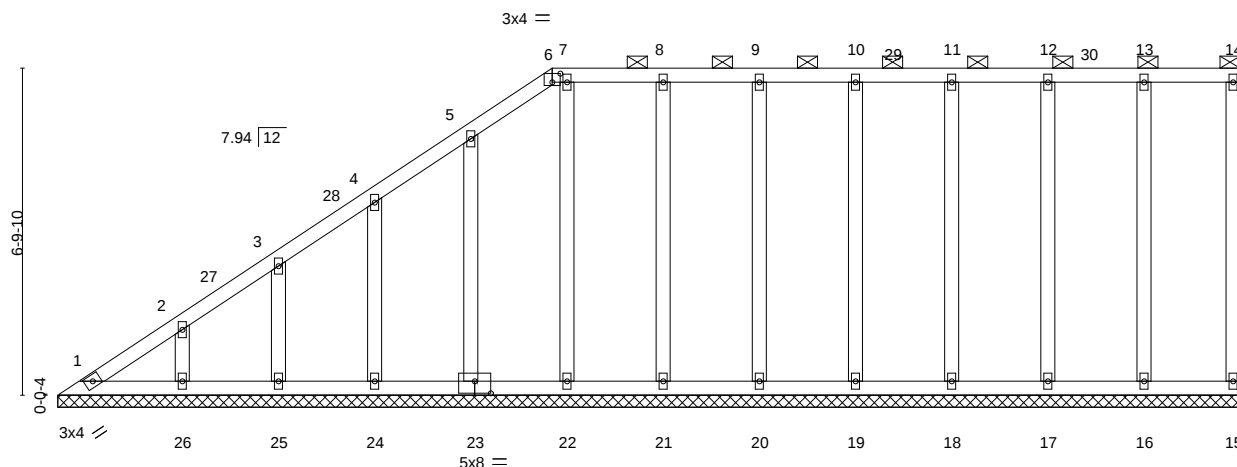
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:03 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-XmXjB1297F0FDctH3i08_Fh0epBDTEtU7Guyb3ypHxk

10-3-6
10-3-6
24-7-1
14-3-11

Scale: 1/4"=1'



										24-7-1																			
Plate Offsets (X,Y)--										[6:0-2-0,0-2-3], [23:0-4-0,0-3-0]										24-7-1									
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	0.22			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)	-0.00	15	n/a		n/a												
BCDL	10.0	Code IRC2018/TPI2014						Matrix-S												Weight: 129 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, and 2-0-0 oc purlins (6-0-0 max.): 6-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 24-7-1.
(lb) - Max Horz 1=259(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-297/210, 2-3=-256/179

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-13 to 3-5-13, Interior(1) 3-5-13 to 10-3-6, Exterior(2R) 10-3-6 to 14-7-1, Interior(1) 14-7-1 to 24-5-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26.
- 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.



August 11, 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/HAWTHORN RIDGE#156/MO
2895604	L4	GABLE	1	1	I47385549
Job Reference (optional)					

Builders FirstSource (Valley Center),

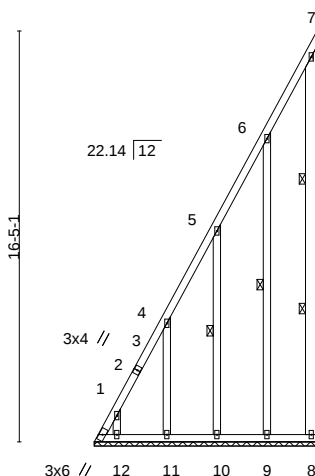
Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:04 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-?y56OM3ouZ86qmStcPXNXTeb?DYoCfzdMwdV7VypHxj

8-10-13
8-10-13

Scale = 1:92.1



8-10-13
8-10-13

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)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.00	-	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
									Weight: 89 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-9, 5-10
2 Rows at 1/3 pts 7-8

REACTIONS.

All bearings 8-10-13.
(lb) - Max Horz 1=634(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-113(LC 12), 1=-573(LC 10), 9=-327(LC 12), 10=-319(LC 12), 11=-327(LC 12), 12=-266(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 12 except 1=1179(LC 12), 9=295(LC 19), 10=284(LC 19), 11=293(LC 19)

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

TOP CHORD 1-2=-1533/1198, 2-4=-1243/971, 4-5=-872/683, 5-6=-510/404
WEBS 6-9=-368/398, 5-10=-357/387, 4-11=-367/398, 2-12=-299/323

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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 113 lb uplift at joint 8, 573 lb uplift at joint 1, 327 lb uplift at joint 9, 319 lb uplift at joint 10, 327 lb uplift at joint 11 and 266 lb uplift at joint 12.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 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



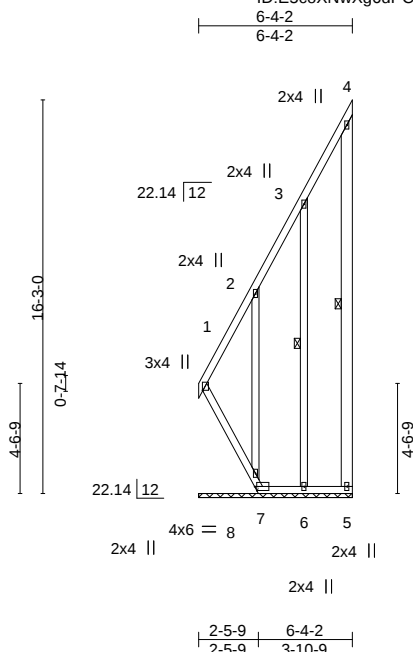
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss L5	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO 147385550 Job Reference (optional)
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:05 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-T8fUci3QfsGzSw1gA72c4gmLYduix0xnaaN3gyypHxi



Scale: 1/8"=1'

Plate Offsets (X,Y)--	[1:0-0-0,0-0-5]								
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 0.26	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 76 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 6-0-0 oc bracing: 1-8.
1 Row at midpt 4-5, 3-6

REACTIONS.

All bearings 6-4-2.
(lb) - Max Horz 1=460(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 5=115(LC 12), 1=355(LC 10), 6=311(LC 12), 8=497(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=816(LC 12), 6=288(LC 19), 8=400(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1142/876, 2-3=-535/411
WEBS 3-6=-368/412, 2-8=-559/656

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left exposed; end vertical left 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) Bearing at joint(s) 5, 1, 7, 6, 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) 7 except (jt=lb) 5=115, 1=355, 6=311, 8=497.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 8.
- 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.



August 11, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2895604	Truss L6	Truss Type GABLE	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385551
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:06 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-xLDsp242QAQq43bskqZrcuJZ41DtgcwpE6cCOypHxh

7-10-7 7-10-7 15-3-11 7-5-4

3x4 =

Scale = 1:32.7

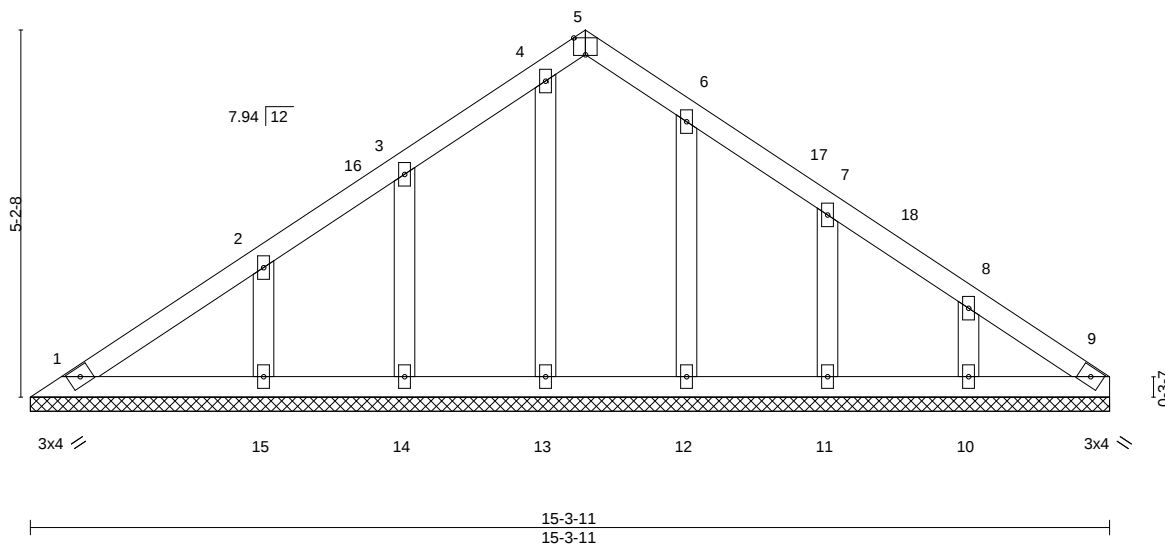


Plate Offsets (X,Y)--		[5:0-2-0,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.08	Vert(LL)		n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15		BC	0.05	Vert(CT)		n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES		WB	0.05	Horz(CT)		0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S								Weight: 56 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 15-3-11.

(lb) - Max Horz 1=-128(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 11, 12, 13, 14 except 15=-109(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 10, 11, 12, 13, 14 except 15=272(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-13 to 3-3-11, Interior(1) 3-3-11 to 7-10-7, Exterior(2R) 7-10-7 to 10-10-7, Interior(1) 10-10-7 to 15-1-15 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
- 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, 10, 11, 12, 13, 14 except (jt=lb) 15=109.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 11, 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

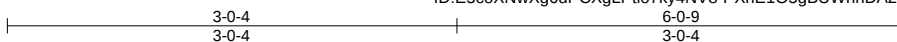
Job 2895604	Truss L7	Truss Type Lay-In Gable	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385552
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

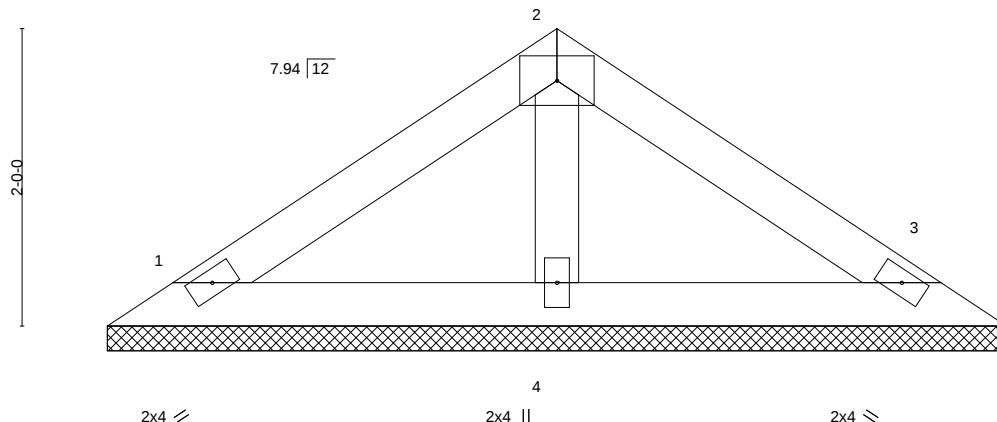
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:07 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-PXnE1O5gBUWhhDA2IY5495rkNRZ0P3G42usAkqypHxg



4x6 =

Scale = 1:15.5



LOADING (psf)		SPACING- 2'-0'-0		CSI.		DEFL.		I/defl		L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P								Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
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=6'-0'-9, 3=6'-0'-9, 4=6'-0'-9
Max Horz 1=-44(LC 8)
Max Uplift 1=-31(LC 12), 3=-36(LC 13), 4=-10(LC 12)
Max Grav 1=123(LC 1), 3=123(LC 1), 4=210(LC 1)

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

NOTES-

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



August 11, 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



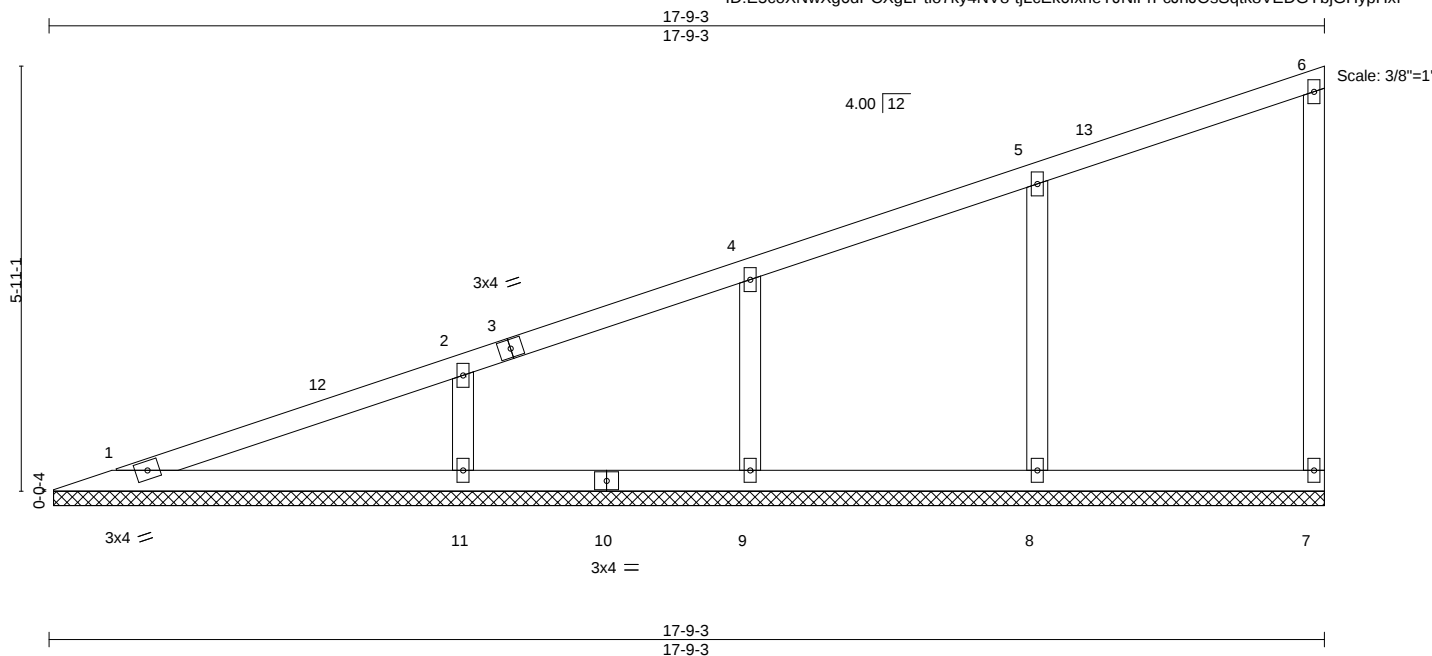
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385553
2895604	V1	Valley	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:08 2021 Page 1

ID:E5coXNwXg6dPCXgLPtio7ky4NV8-tjLcEk6lxneYJNIFrFcJhJOSsqtk8VEDGYbjGHypHxf



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)	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 0.10	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 56 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 17-8-7.

(lb) - Max Horz 1=248(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7, 9 except 8=109(LC 8), 11=130(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=395(LC 1), 9=321(LC 1), 11=467(LC 1)

FORCES.

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

TOP CHORD 1-2=-276/166

WEBS 5-8=-307/162, 4-9=-253/124, 2-11=-352/166

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 17-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 7, 9 except (jt=lb) 8=109, 11=130.
- 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.



August 11, 2021

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

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

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



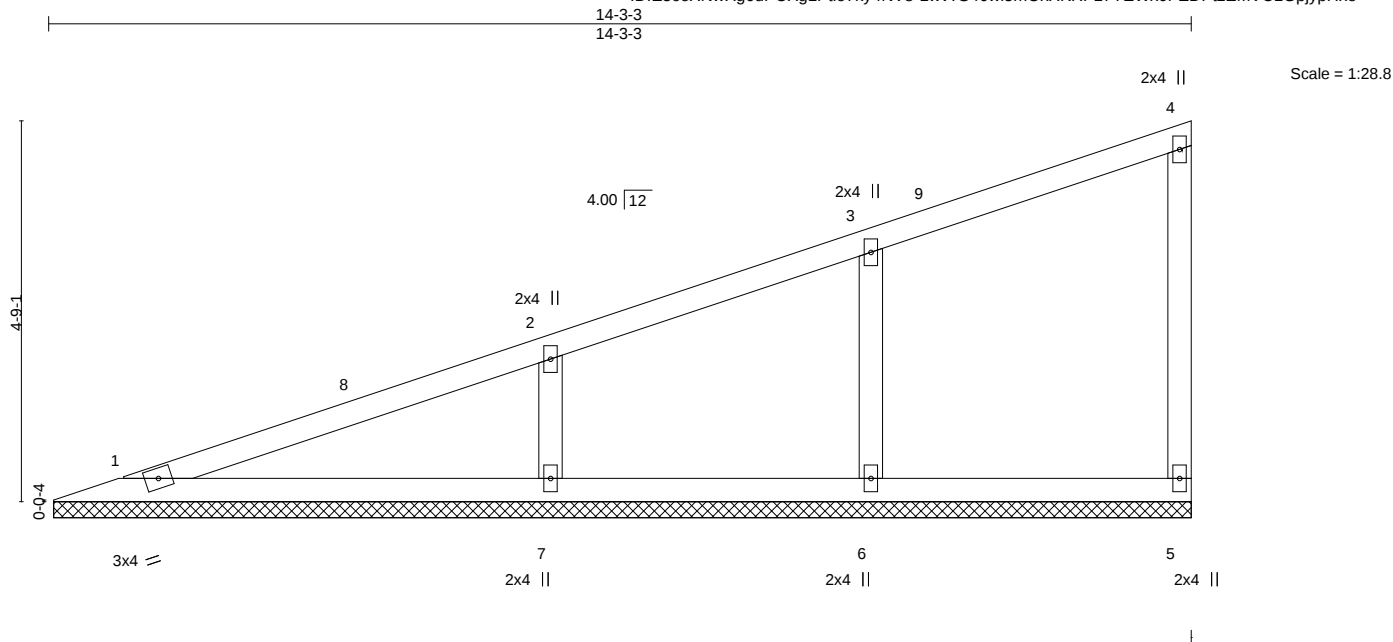
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385554
2895604	V2	Valley	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:09 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-Lww?S46wi5mOxxKRPz7YEWx0FEDPtZEMVCLGpjypHxe



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 0.34	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 42 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 14-2-7.

(lb) - Max Horz 1=196(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=-138(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=338(LC 1), 7=497(LC 1)

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

WEBS 3-6=-268/157, 2-7=-374/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 14-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 5, 6 except (jt=lb) 7=138.
- 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.



August 11, 2021

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



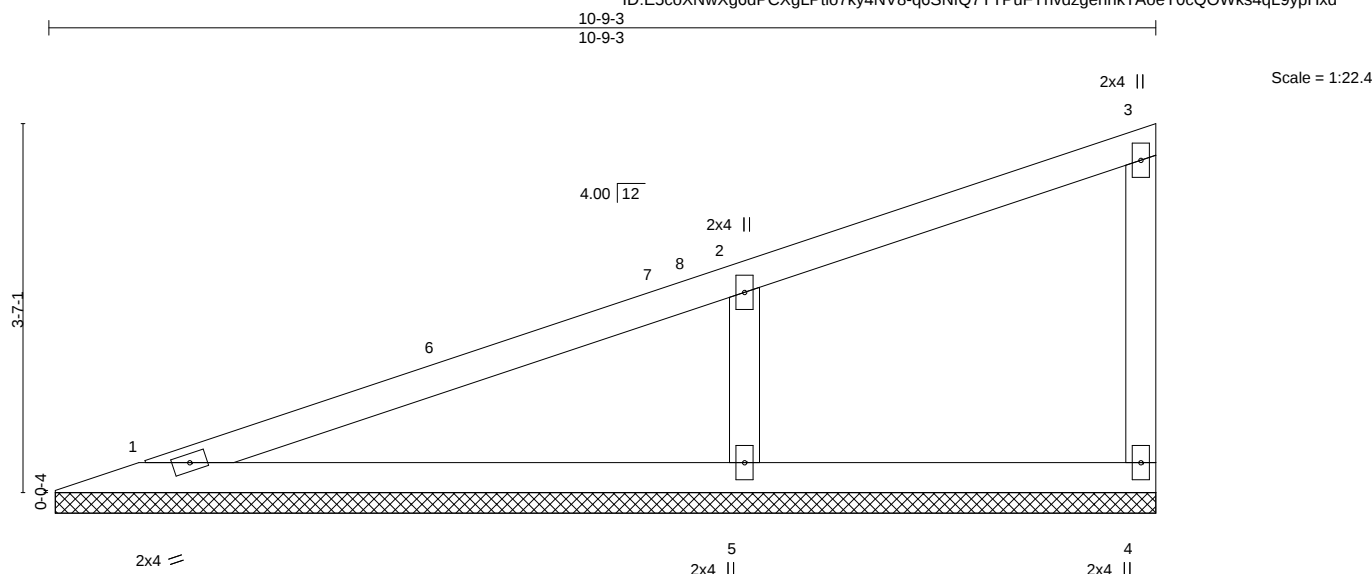
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE#156/MO	I47385555
2895604	V3	Valley	1	1	Job Reference (optional)	

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

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:10 2021 Page 1

ID:E5coXNwXg6dPCXgLPto7ky4NV8-q6SNfQ7YTPuFYhvdzgennkTAoeY0cQOWks4qL9ypHxd



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	n/a	-	n/a	999	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a	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=10-8-7, 4=10-8-7, 5=10-8-7
Max Horz 1=144(LC 9)
Max Uplift 1=-30(LC 12), 4=-21(LC 9), 5=-155(LC 8)
Max Grav 1=212(LC 1), 4=98(LC 1), 5=560(LC 1)

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

WEBS 2-5=-422/296

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 10-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=155.
- 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.



August 11, 2021

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

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Chesterfield, MO 63017

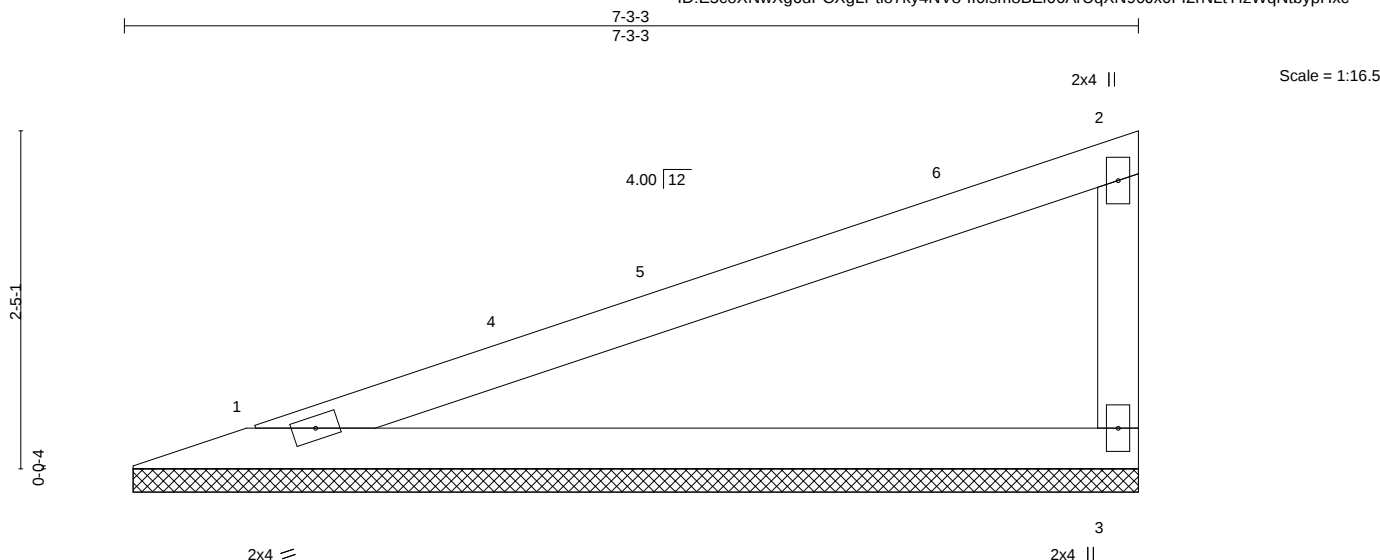
Job 2895604	Truss V4	Truss Type Valley	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385556
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:11 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-II0lsm8BEi06ArUqXN90Jx0FI2rNltYfzWqNtbypHxc



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
									Weight: 18 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=7-2-7, 3=7-2-7
Max Horz 1=92(LC 9)
Max Uplift 1=-56(LC 8), 3=-70(LC 8)
Max Grav 1=278(LC 1), 3=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; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 7-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



August 11, 2021

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Chesterfield, MO 63017

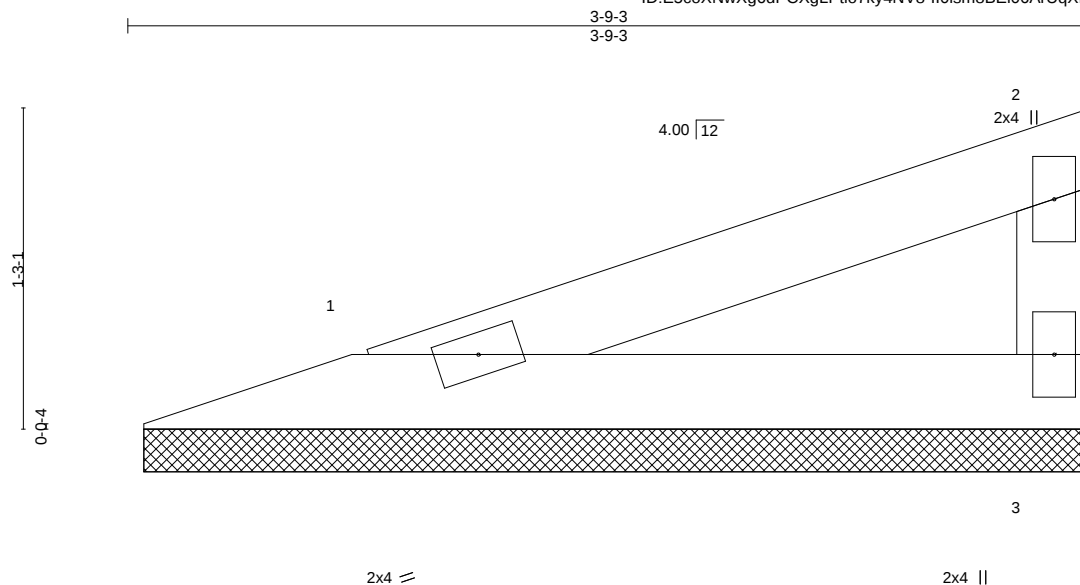
Job 2895604	Truss V5	Truss Type Valley	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385557
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:11 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-II0lsm8BEi06ArUqXN90Jx0PC2wmLtYfzWqNtbypHxc



Scale = 1:9.0

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 0.12	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	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: 8 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 3-9-3 oc purlins, except end verticals.

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

REACTIONS.

(size) 1=3-8-7, 3=3-8-7

Max Horz 1=40(LC 9)

Max Uplift 1=24(LC 8), 3=31(LC 12)

Max Grav 1=120(LC 1), 3=120(LC 1)

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

NOTES-

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



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Chesterfield, MO 63017

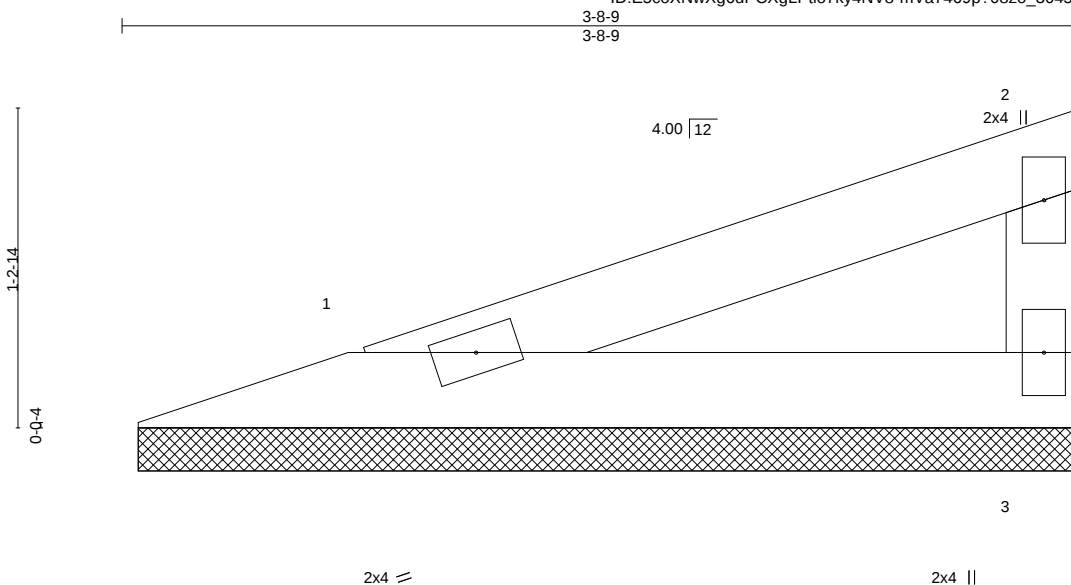
Job 2895604	Truss V8	Truss Type Valley	Qty 1	Ply 1	SUMMIT/HAWTHORN RIDGE#156/MO I47385558
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 10 09:37:12 2021 Page 1

ID:E5coXNwXg6dPCXgLPtlo7ky4NV8-mVa7469p?08zo_3045gFs9Za1SF24KopBAZxP2ypHxb



Scale = 1:8.9

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 0.12	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	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 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 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-7-13, 3=3-7-13
Max Horz 1=40(LC 9)
Max Uplift 1=24(LC 8), 3=30(LC 12)
Max Grav 1=118(LC 1), 3=118(LC 1)

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

NOTES-

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



August 11, 2021

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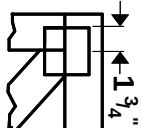
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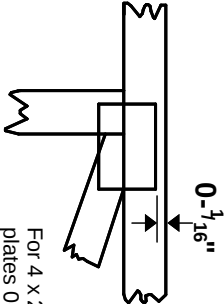
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

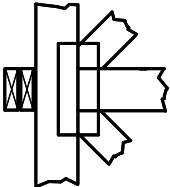
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



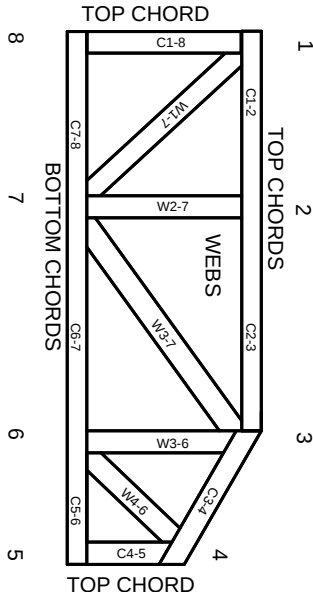
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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