



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

03/18/2021

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

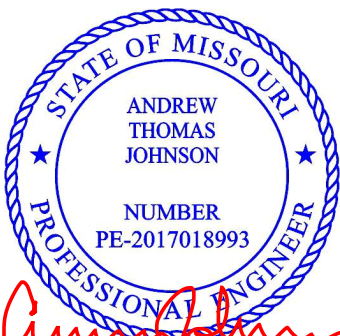
Re: 2686850
SUMMIT/WOODSIDE RIDGE #37/MO

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: I44976682 thru I44976756

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

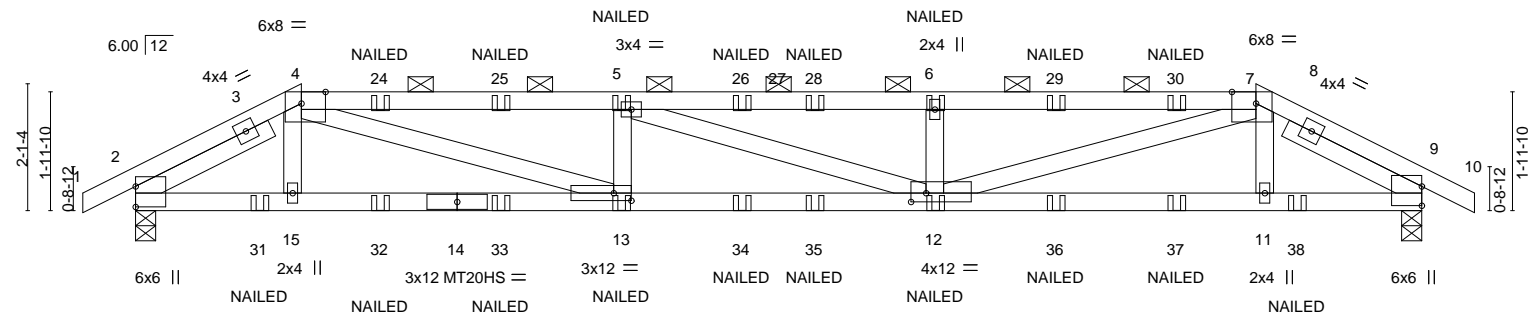
Missouri COA: Engineering 001193



February 26, 2021

Johnson, Andrew ,Engineer

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



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) -0.24 12-13 >999 240		MT20 197/144	
TCDL 20.0		Lumber DOL 1.15		BC 0.84		Vert(CT) -0.53 12-13 >481 180		MT20HS 148/108	
BCLL 0.0		Rep Stress Incr NO		WB 0.76		Horz(CT) 0.07 9 n/a n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-MS				Weight: 93 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
4-7: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E *Except*
2-14: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 2-4-13 oc purlins, except 2-0-0 oc purlins (2-7-2 max.): 4-7.
BOT CHORD	Rigid ceiling directly applied or 7-6-7 oc bracing.

REACTIONS. (size) 2=0-4-0, 9=0-4-0
 Max Horz 2=-30(LC 13)
 Max Uplift 2=-407(LC 8), 9=-407(LC 9)
 Max Grav 2=1835(LC 1), 9=1835(LC 1)

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

TOP CHORD	2-4=-2846/643, 4-5=-5422/1259, 5-6=-5411/1257, 6-7=-5414/1258, 7-9=-2842/643
BOT CHORD	2-15=-545/2504, 13-15=-546/2491, 12-13=-1233/5419, 11-12=-531/2496, 9-11=-530/2508
WEBS	4-13=-748/3106, 5-13=-731/250, 6-12=-722/246, 7-12=-745/3093

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) 2=407, 9=407.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

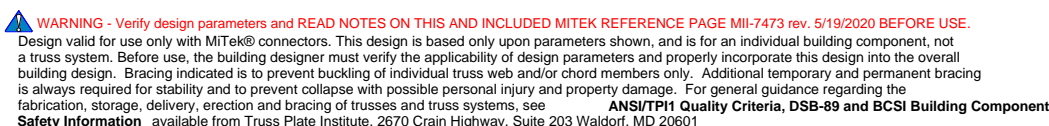
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 4-7=-90, 7-10=-90, 16-20=-20



February 26, 2021

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #30771
2686850	B01	Hip Girder	1	1	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)
					8.430 s Feb 12 2021 MiTek Industries, Inc. L-Ed Feb 12 2021 13:05:08 Page 1
					ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-fy6k6bKXbylLunQQyrhcliGO5wcKvzo9YFoGRkzhJYy

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 13=-41(F) 5=-57(F) 6=-57(F) 12=-41(F) 24=-57(F) 25=-57(F) 26=-57(F) 28=-57(F) 29=-57(F) 30=-57(F) 31=-192(F) 32=-41(F) 33=-41(F) 34=-41(F) 35=-41(F) 36=-41(F) 37=-41(F) 38=-192(F)

Job
2686850

Truss
B02

Truss Type
Hip

Qty
1

Ply
1

SUMMIT/WOODS
DE RIDGE #3070

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

8.430 s Feb 12 2021 MiTek Industries, Inc.
ID: wH4RYhEsTNeUP2dXvOf1syQY8e-88g6KxL9MFQCWx?cVYCrrvob8JzAeX0JnvXpzBzhJYx

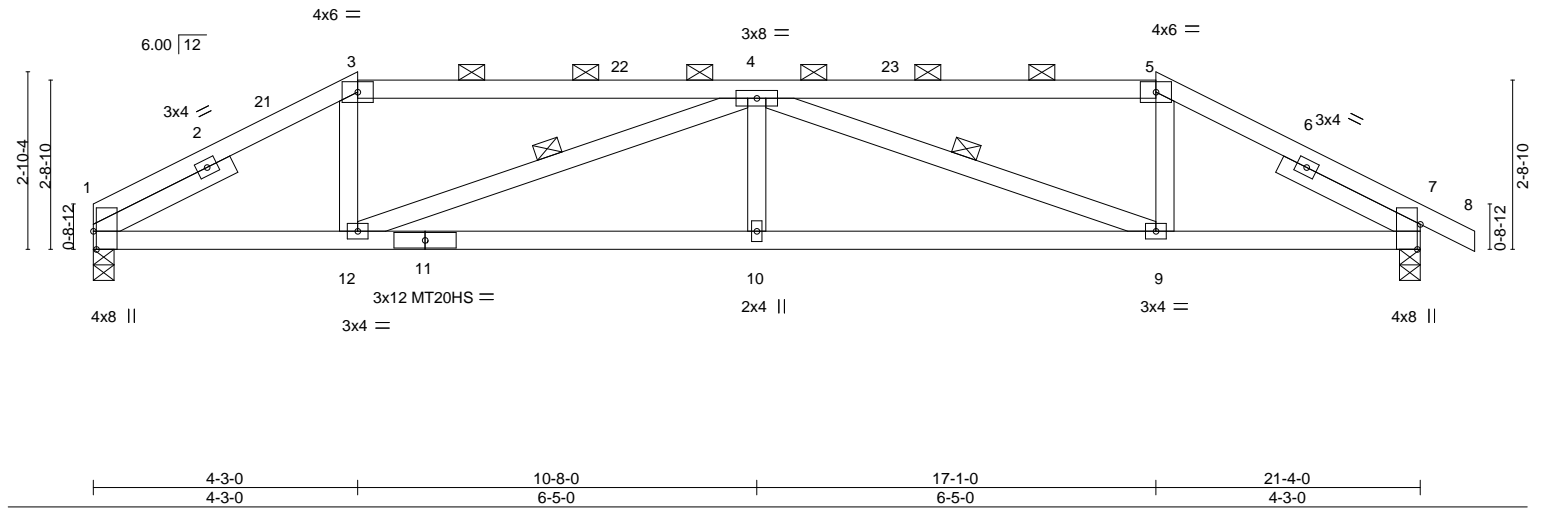
Job Reference (optional)
LEE'S SUMMIT, MISSOURI

21-4-0
4-3-0

22-2-8
0-10-8

93/18/2021

Scale = 1:37.0



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 0.72	Vert(LL)	-0.12	10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.28	9-10	>924	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.08	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 80 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 (3-7-11 max.): 3-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0	WEBS 1 Row at midpt 4-12, 4-9

REACTIONS. (size) 1=0-4-0, 7=0-4-0
Max Horz 1=-51(LC 17)
Max Uplift 1=-168(LC 12), 7=-189(LC 13)
Max Grav 1=1172(LC 1), 7=1254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1879/301, 3-4=-1627/294, 4-5=-1616/277, 5-7=-1870/286
BOT CHORD 1-12=-225/1651, 10-12=-418/2752, 9-10=-418/2752, 7-9=-201/1641
WEBS 3-12=-26/480, 4-12=-1276/252, 4-10=0/289, 4-9=-1283/253, 5-9=-26/481

- 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 4-3-0, Exterior(2R) 4-3-0 to 8-5-15, Interior(1) 8-5-15 to 17-1-0, Exterior(2R) 17-1-0 to 21-4-0, Interior(1) 21-4-0 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=168, 7=189.
 - This truss 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.



February 26,2021

Job

2686850

Truss

B03

Truss Type

Hip

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #30705

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-cKEUXGLn7ZY375ap3Gj4N7LrLjHqNzIS?ZHNVdzhJYw

14976684

5-9-0

10-8-0

15-7-0

21-4-0

22-2-8

5-9-0

4-11-0

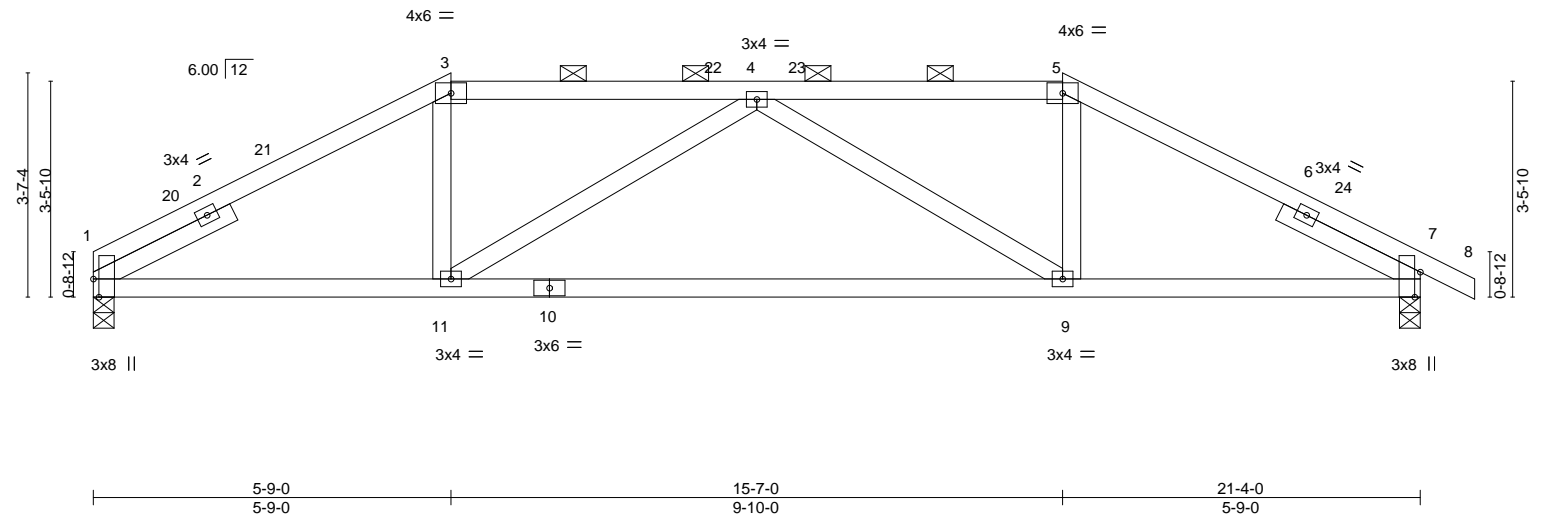
4-11-0

5-9-0

0-10-8

03/18/2021

Scale = 1:37.0



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	0.44	Vert(LL)	-0.26	9-11	>979	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.58	9-11	>439	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.07	7	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
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (4-3-13 max.): 3-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0		

REACTIONS.	
(size)	1=0-4-0, 7=0-4-0
Max Horz	1=-64(LC 17)
Max Uplift	1=-167(LC 12), 7=-187(LC 13)
Max Grav	1=1172(LC 1), 7=1254(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1841/282, 3-4=-1573/284, 4-5=-1565/283, 5-7=-1835/272
BOT CHORD	1-11=-186/1589, 9-11=-270/1987, 7-9=-162/1582
WEBS	3-11=-15/472, 4-11=-591/184, 4-9=-597/184, 5-9=-15/472

- 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 5-9-0, Exterior(2R) 5-9-0 to 9-11-15, Interior(1) 9-11-15 to 15-7-0, Exterior(2R) 15-7-0 to 19-9-15, Interior(1) 19-9-15 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=167, 7=187.
 - This truss 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.



February 26,2021

Job

2686850

Truss

B04

Truss Type

Hip

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

8.430 s Feb 12 2021

MiTek Industries, Inc.

Job Reference (optional)

Lee's Summit, Missouri

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-4XotlcMQutgVIE9?dzfJwKu0S7je6SGcED0w23zhJYv

144976685

7-3-0

7-3-0

14-1-0

6-10-0

21-4-0

7-3-0

22-2-8

0-10-8

03/18/2021

Scale = 1:38.0

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

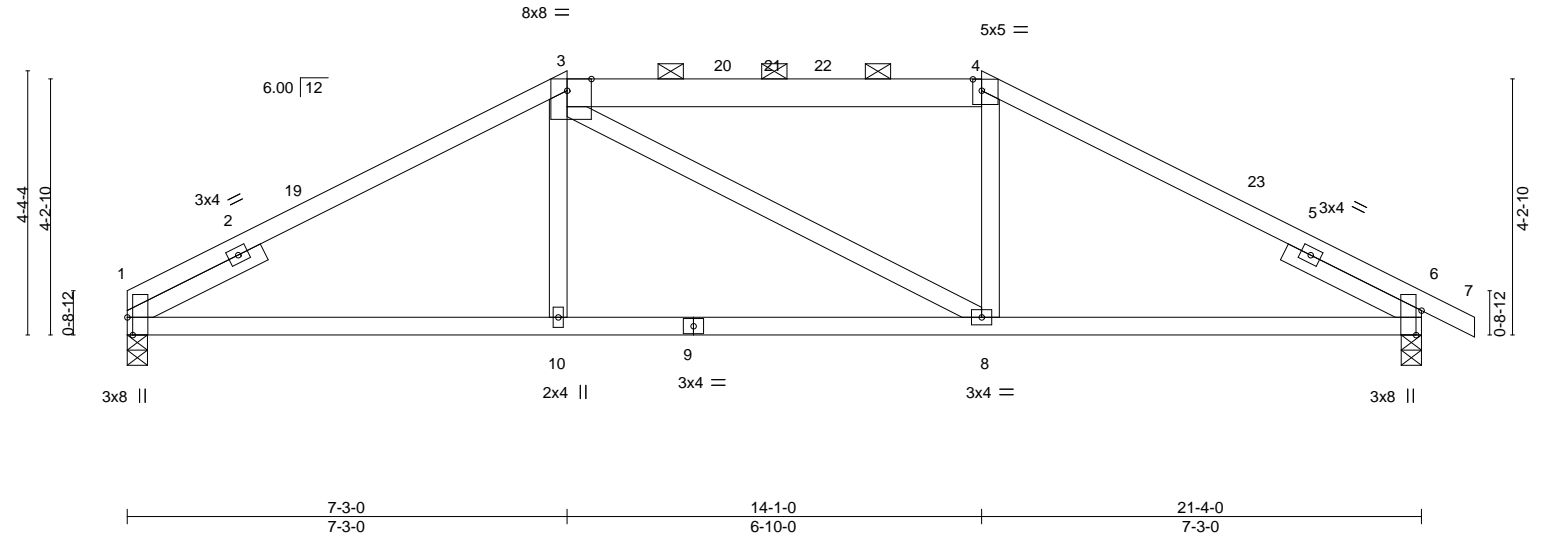


Plate Offsets (X,Y)--		[1:0-3-8,Edge], [3:0-4-13,Edge], [4:0-1-12,0-2-4], [6:0-4-13,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.42	DEFL. in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.48	Vert(LL) -0.06 8-10 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Vert(CT) -0.14 8-10 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.05 6 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 79 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
3-4: 2x6 SPF No.2	2-0-0 oc purlins (5-4-12 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0	

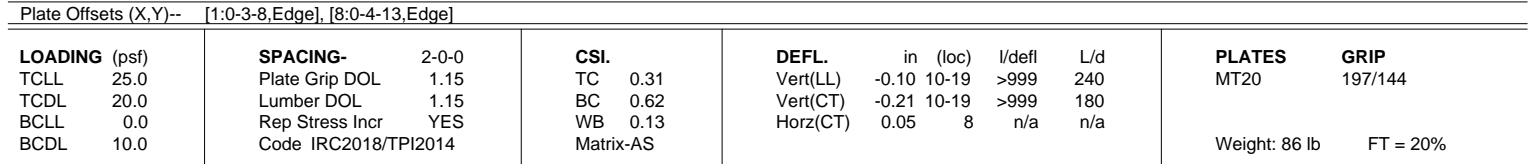
REACTIONS.	(size) 1=0-4-0, 6=0-4-0
	Max Horz 1=-78(LC 17)
	Max Uplift 1=-164(LC 12), 6=-184(LC 13)
	Max Grav 1=1172(LC 1), 6=1254(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-1705/292, 3-4=-1479/314, 4-6=-1701/292
BOT CHORD	1-10=-179/1489, 8-10=-181/1484, 6-8=-167/1485
WEBS	3-10=0/282, 4-8=0/282

- 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 7-3-0, Exterior(2R) 7-3-0 to 11-5-15, Interior(1) 11-5-15 to 14-1-0, Exterior(2R) 14-1-0 to 18-3-15, Interior(1) 18-3-15 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=164, 6=184.
 - This truss 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.



February 26, 2021



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

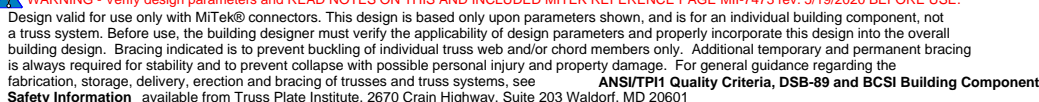
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1797/325, 3-4=-1548/286, 4-5=-1311/291, 5-6=-1544/288, 6-8=-1789/328
BOT CHORD	1-12=-257/1564, 10-12=-125/1309, 8-10=-226/1554
WEBS	3-12=-307/156, 4-12=-26/308, 5-10=-31/306, 6-10=-299/154

- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-9-0, Exterior(2E) 8-9-0 to 12-7-0, Exterior(2R) 12-7-0 to 16-11-8, Interior(1) 16-11-8 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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=161, 8=182.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 2686850

Truss: B06

Truss Type: Hip

Qty: 1

Ply: 1

SUMMIT/WOODS

DE RIDGE #3070

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

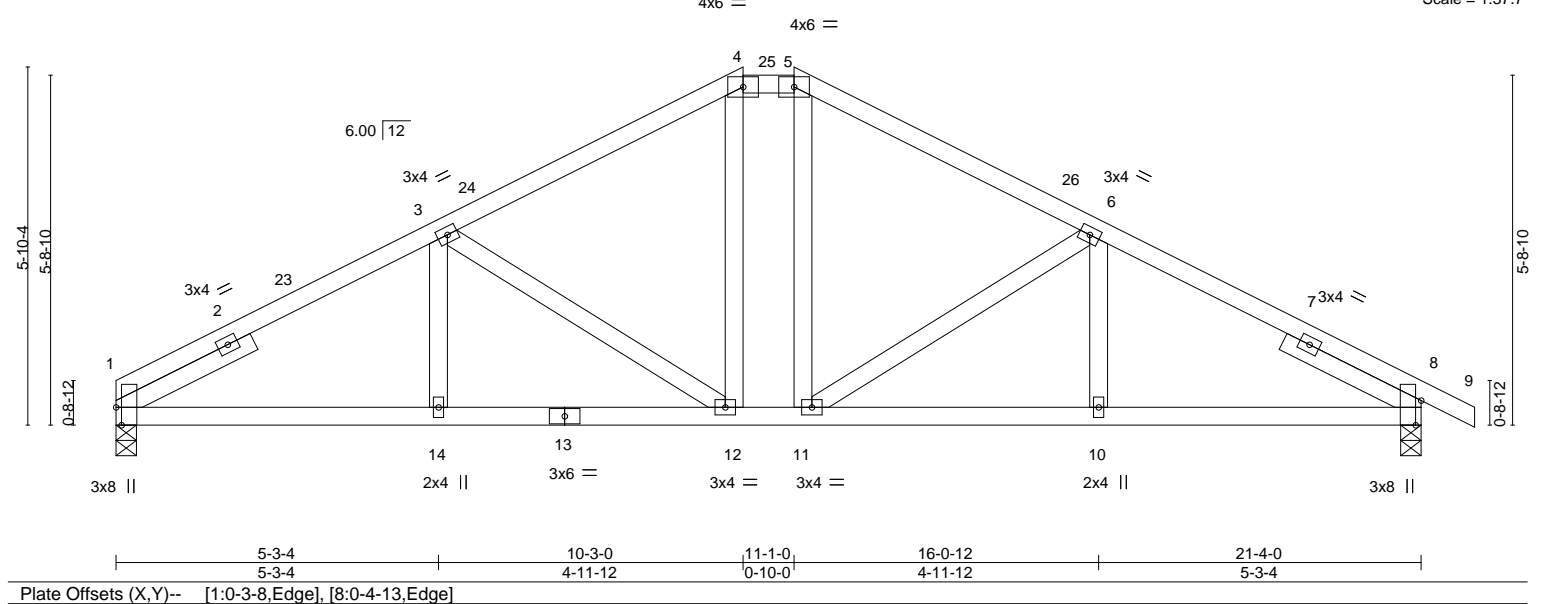
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

5-3-4 10-3-0 11-1-0 16-0-12 21-4-0 22-2-8

5-3-4 4-11-12 0-10-0 4-11-12 5-3-4 0-10-8

Scale = 1:37.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.05 10-11 >999 240	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.13 10-11 >999 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS				Weight: 89 lb	FT = 20%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (5-1-1 max.): 4-5.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0		

REACTIONS.	
(size)	1=0-4-0, 8=0-4-0
Max Horz	1=104(LC 17)
Max Uplift	1=158(LC 12), 8=179(LC 13)
Max Grav	1=1172(LC 1), 8=1254(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1804/278, 3-4=-1406/266, 4-5=-1168/263, 5-6=-1405/261, 6-8=-1797/274
BOT CHORD	1-14=-242/1561, 12-14=-242/1561, 11-12=-86/1168, 10-11=-177/1553, 8-10=-177/1553
WEBS	3-12=-516/184, 4-12=-52/311, 5-11=-47/308, 6-11=-506/183

- 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 10-3-0, Exterior(2E) 10-3-0 to 11-1-0, Exterior(2R) 11-1-0 to 15-3-15, Interior(1) 15-3-15 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=158, 8=179.
 - This truss 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.



February 26, 2021

Job

2686850

Truss

B07

Truss Type

Common

Qty

4

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. L-14976688

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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03/18/2021

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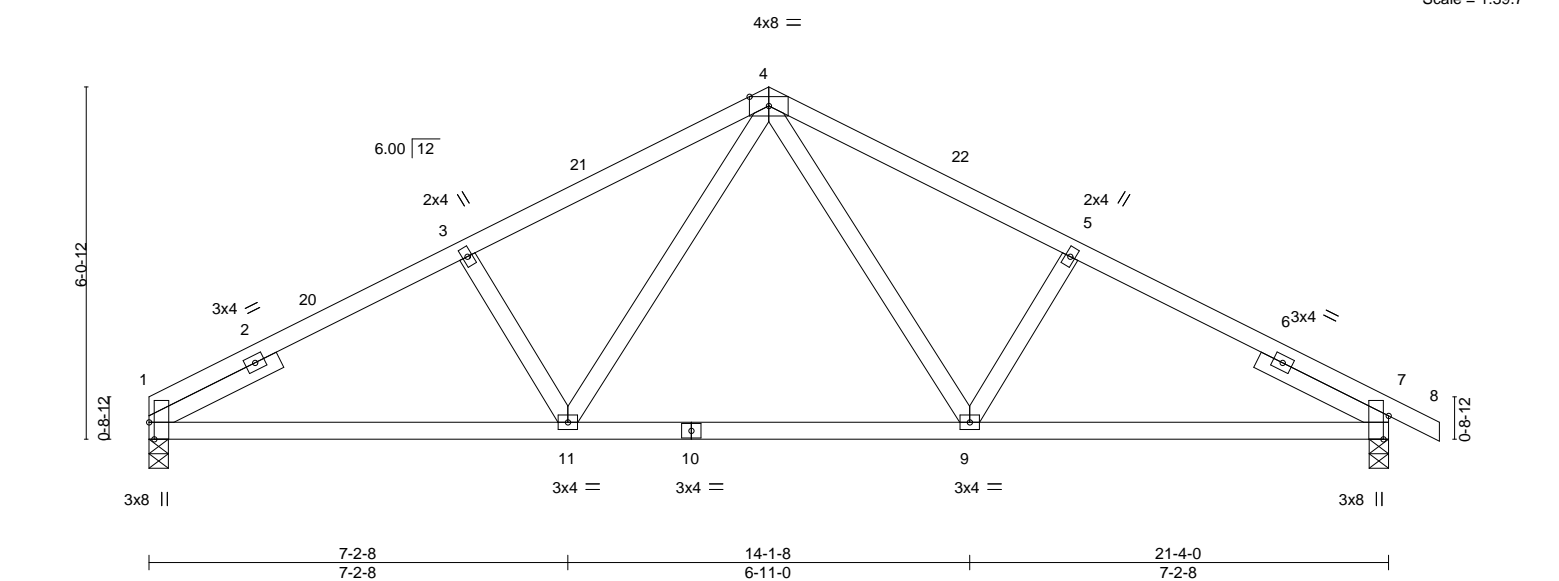


Plate Offsets (X, Y)--		[1:0-3-8,Edge], [7:0-4-13,Edge]		[14-1-8,Edge], [6-11-0,Edge]		[21-4-0,Edge], [7-2-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.06	9-11	>999
TCDL 20.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.17	9-11	>999
BCLL 0.0	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.05	7	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES		GRIP	
				MT20		197/144	
				Weight: 81 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0		

REACTIONS.	
(size)	1=0-4-0, 7=0-4-0
Max Horz	1=109(LC 13)
Max Uplift	1=157(LC 12), 7=177(LC 13)
Max Grav	1=1172(LC 1), 7=1254(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=-1795/351, 3-4=-1636/370, 4-5=-1631/363, 5-7=-1790/345
BOT CHORD	1-11=-247/1553, 9-11=-92/1105, 7-9=-225/1545
WEBS	4-9=-126/545, 5-9=-387/189, 4-11=-127/553, 3-11=-392/190

- 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 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 22-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 7=177.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26,2021

Job

2686850

Truss

C01

Truss Type

HIP GIRDER

Qty

1

Ply

2

SUMMIT/WOODS

DE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976689

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976689

3-6-1

6-8-11

10-10-7

15-2-0

19-5-9

23-7-5

27-7-15

32-0-0

3-6-1

3-2-9

4-1-13

4-3-9

4-3-9

4-1-13

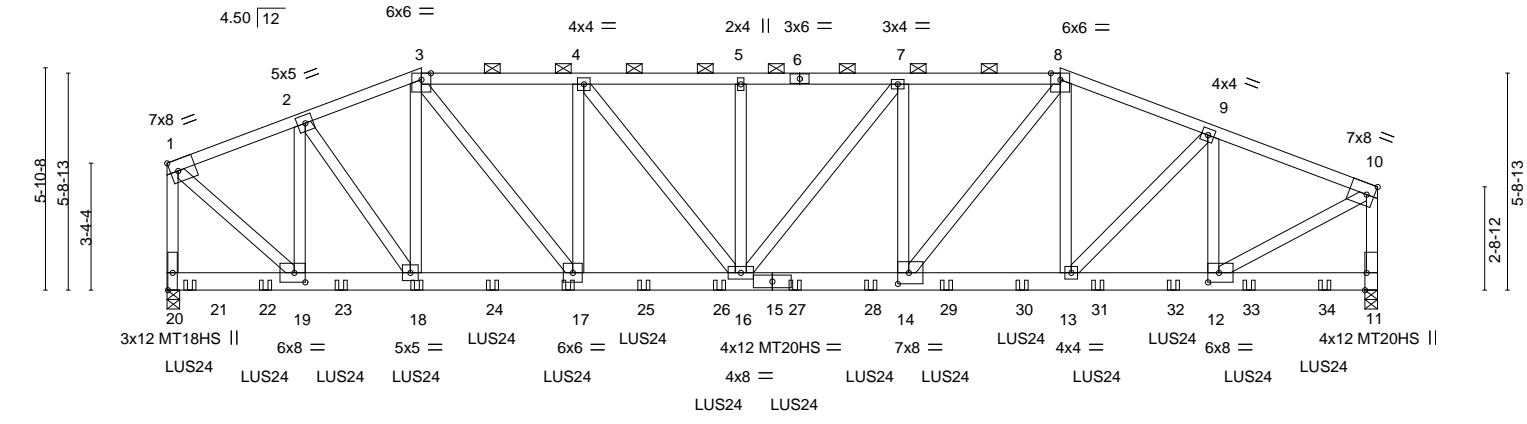
4-0-9

4-4-1

14976689

03/18/2021

Scale = 1:60.9



	3-6-1	6-8-11	10-10-7	15-2-0	19-5-9	23-7-5	27-7-15	32-0-0
	3-6-1	3-2-9	4-1-13	4-3-9	4-3-9	4-1-13	4-0-9	4-4-1
Plate Offsets (X,Y)--	[10:0-2-7,Edge], [11:0-5-8,Edge], [12:0-3-8,0-3-0], [14:0-3-8,0-3-8], [19:0-3-8,0-3-0]							
LOADING (psf)	SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15		TC 0.73		Vert(LL) -0.18 14-16 >999 240		MT20 197/144	
TCDL 20.0	Lumber DOL 1.15		BC 0.42		Vert(CT) -0.40 14-16 >949 180		MT20HS 148/108	
BCLL 0.0	Rep Stress Incr NO		WB 0.91		Horz(CT) 0.07 11 n/a n/a		MT18HS 197/144	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS				Weight: 411 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-3 max.): 3-8.

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

REACTIONS. (size) 20=0-4-0, 11=0-4-0
Max Horz 20=95(LC 6)
Max Uplift 20=1326(LC 4), 11=1221(LC 5)
Max Grav 20=7000(LC 1), 11=6961(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5248/1014, 2-3=-7102/1386, 3-4=-9333/1756, 4-5=-10501/1895, 5-7=-10501/1895, 7-8=-10142/1803, 8-9=-8646/1540, 9-10=-7103/1247, 1-20=-6298/1220, 10-11=-6358/1129
BOT CHORD 18-19=-915/4862, 17-18=-1242/6687, 16-17=-1681/9329, 14-16=-1728/10138, 13-14=-1392/8081, 12-13=-1171/6588
WEBS 2-19=-3311/648, 2-18=-553/3103, 3-18=-1315/171, 3-17=-722/4389, 4-17=-2029/330, 4-16=-259/1917, 5-16=-378/120, 7-16=-215/648, 7-14=-1048/287, 8-14=-574/3453, 9-13=-332/2204, 9-12=-2315/425, 1-19=-1239/6455, 10-12=-1296/7448

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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) 20=1326, 11=1221.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 6-7-4 to connect truss(es) to front face of bottom chord.

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #30711	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>03/18/2021</div> </div>
2686850	C01	HIP GIRDER	1	2	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.430 s Feb 12 2021 MiTek Industries, Inc. 14976689		

- NOTES-**
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 8-7-4 from the left end to 22-7-4 to connect truss(es) to front face of 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 24-7-4 from the left end to 30-7-4 to connect truss(es) to front face of bottom chord.
 - 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-8=-90, 8-10=-90, 11-20=-20

Concentrated Loads (lb)

Vert: 18=-609(F) 17=-609(F) 21=-615(F) 22=-609(F) 23=-609(F) 24=-609(F) 25=-609(F) 26=-724(F) 27=-724(F) 28=-724(F) 29=-724(F) 30=-724(F) 31=-645(F) 32=-645(F) 33=-645(F) 34=-645(F)

Job

2686850

Truss

C02

Truss Type

Roof Special

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #3700

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

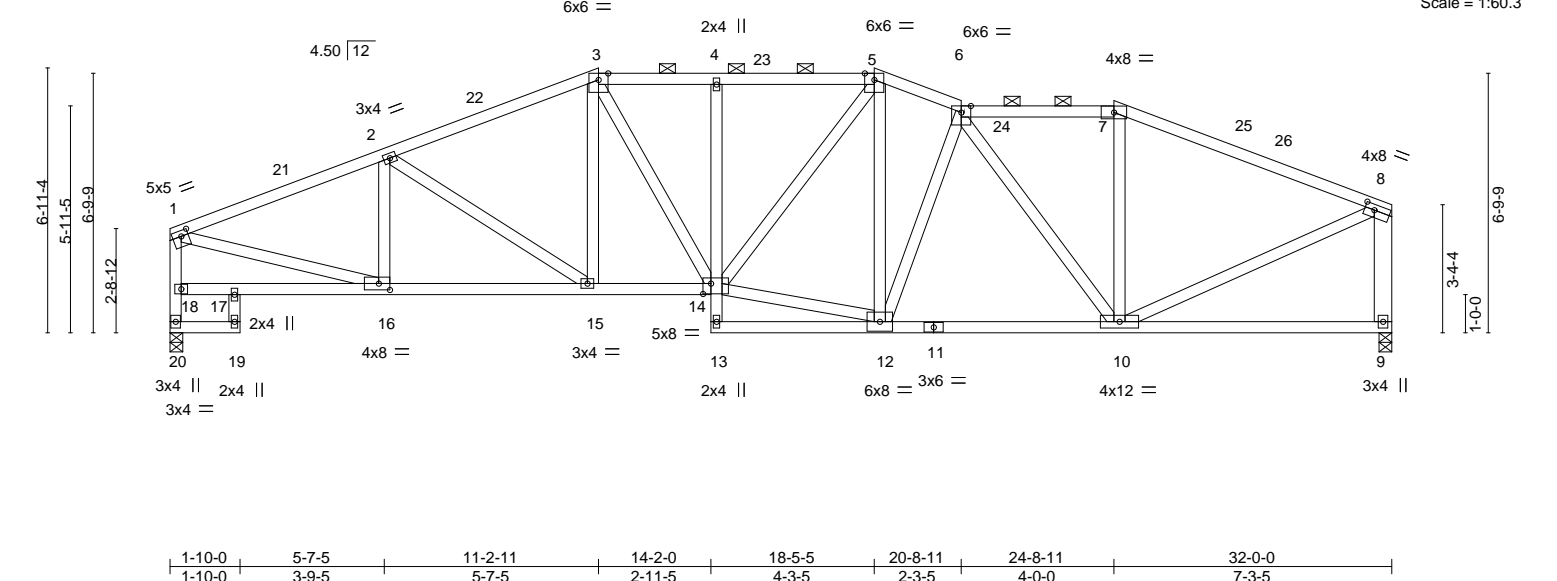
Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

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03/18/2021

Scale = 1:60.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.11	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.24				
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 170 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	BOT CHORD	2-0-0 oc purlins (3-4-14 max.): 3-5, 6-7.
WEBS	2x4 SPF No.2 *Except*		Rigid ceiling directly applied.
	8-9: 2x6 SPF No.2		

REACTIONS.	
(size)	20=0-4-0, 9=0-4-0
Max Horz	20=89(LC 11)
Max Uplift	20=-257(LC 8), 9=-281(LC 9)
Max Grav	20=1739(LC 1), 9=1739(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-2537/430, 2-3=-2522/451, 3-4=-2478/481, 4-5=-2474/482, 5-6=-2242/423, 6-7=-1700/338, 7-8=-1924/318, 18-20=-1705/270, 1-18=-1665/269, 8-9=-1669/306
BOT CHORD	17-18=-116/252, 16-17=-178/272, 15-16=-446/2301, 14-15=-395/2278, 4-14=-413/122, 10-12=-377/2187
WEBS	3-14=-109/537, 12-14=-345/1992, 5-14=-125/727, 6-12=-358/142, 6-10=-829/149, 8-10=-262/1740, 2-16=-494/151, 1-16=-307/2199

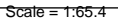
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-11, Exterior(2R) 11-2-11 to 14-3-12, Interior(1) 14-3-12 to 18-5-5, Exterior(2E) 18-5-5 to 20-8-11, Interior(1) 20-8-11 to 24-8-11, Exterior(2R) 24-8-11 to 27-8-11, Interior(1) 27-8-11 to 31-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 20=257, 9=281.
 - This truss 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.



February 26, 2021

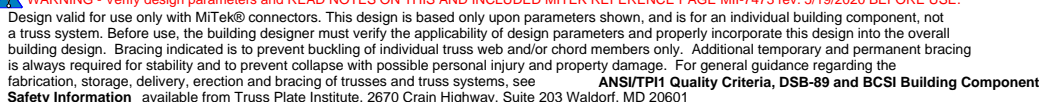
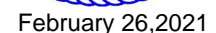
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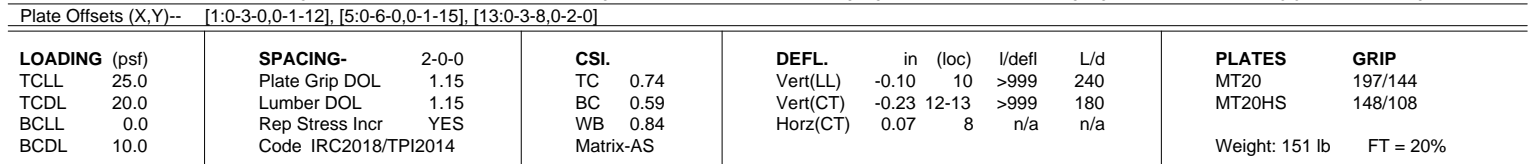
03/18/2021



Weight: 168 lb FT = 20%

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 13-10-11, Exterior(2E) 13-10-11 to 15-9-5, Exterior(2R) 15-9-5 to 18-9-5, Interior(1) 18-9-5 to 27-4-11, Exterior(2R) 27-4-11 to 30-4-11, Interior(1) 30-4-11 to 31-10-4 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
- 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) 19=236, 8=262.
- 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.





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

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

REACTIONS. (size) 14=0-4-0, 8=0-4-0
 Max Horz 14=73(LC 9)
 Max Uplift 14=-230(LC 12), 8=-256(LC 9)
 Max Grav 14=1744(LC 1), 8=1744(LC 1)

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

TOP CHORD 1-2=-2229/311, 2-3=-2004/346, 3-4=-1967/351, 4-5=-2457/360, 5-6=-2220/316,
1-14=-1669/256

BOT CHORD 12-13=-323/1989, 10-12=-322/2214, 9-10=-347/2269, 8-9=-159/807

WEBS 2-13=-478/145, 2-12=-419/171, 3-12=-98/782, 4-12=-730/202, 5-9=-1247/231,
6-9=-254/1963, 1-13=-236/1971, 6-8=-1800/308

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 30-0-11, Exterior(2E) 30-0-11 to 31-10-4 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
- 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) 14=230, 8=256.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



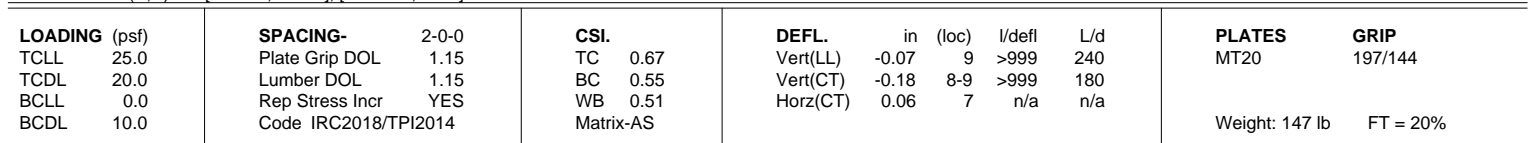
February 26, 2021



WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 707f,



16023 Swingley Ridge Rd
Chesterfield, MO 63017



BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-8 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-11
JOINTS	1 Brace at Jt(s): 6, 16

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

TOP CHORD 1-2=-1354/256, 2-3=-1506/312, 3-4=-1537/318, 4-5=-2183/326, 5-6=-1589/217,
6-7=-1519/233, 17-18=-1499/242, 1-17=-1478/238

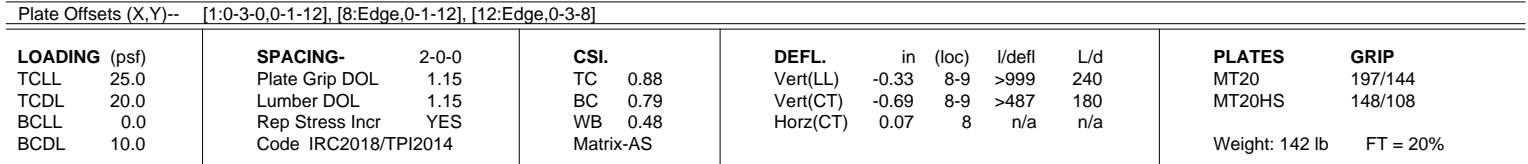
BOT CHORD 12-13=-153/1169, 11-12=-219/1195, 9-11=-297/1945, 8-9=-267/1656

WEBS 3-11=-65/495, 4-11=-829/227, 5-9=-42/310, 5-8=-1293/260, 6-8=-309/2097,
2-11=-43/300, 2-13=-722/161, 1-13=-202/1411

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0, Interior(1) 14-2-0 to 28-2-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=234, 18=205.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021



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

TOP CHORD	1-2=-1553/291, 2-3=-1494/360, 3-4=-2077/408, 4-5=-2067/329, 5-7=-308/63, 1-13=-1472/245, 7-8=-323/83
BOT CHORD	2-11=-599/235, 9-11=-141/1294, 8-9=-294/1895
WEBS	4-9=-542/206, 3-9=-231/1004, 3-11=-123/272, 5-8=-2019/343, 1-11=-201/1446

-

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/TPH 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/WOODS	DE RIDGE #3070
2686850	C07	HIP	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. J4976695			
			Job Reference (optional)			
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			28-4-0 7-7-7			
			03/18/2021			
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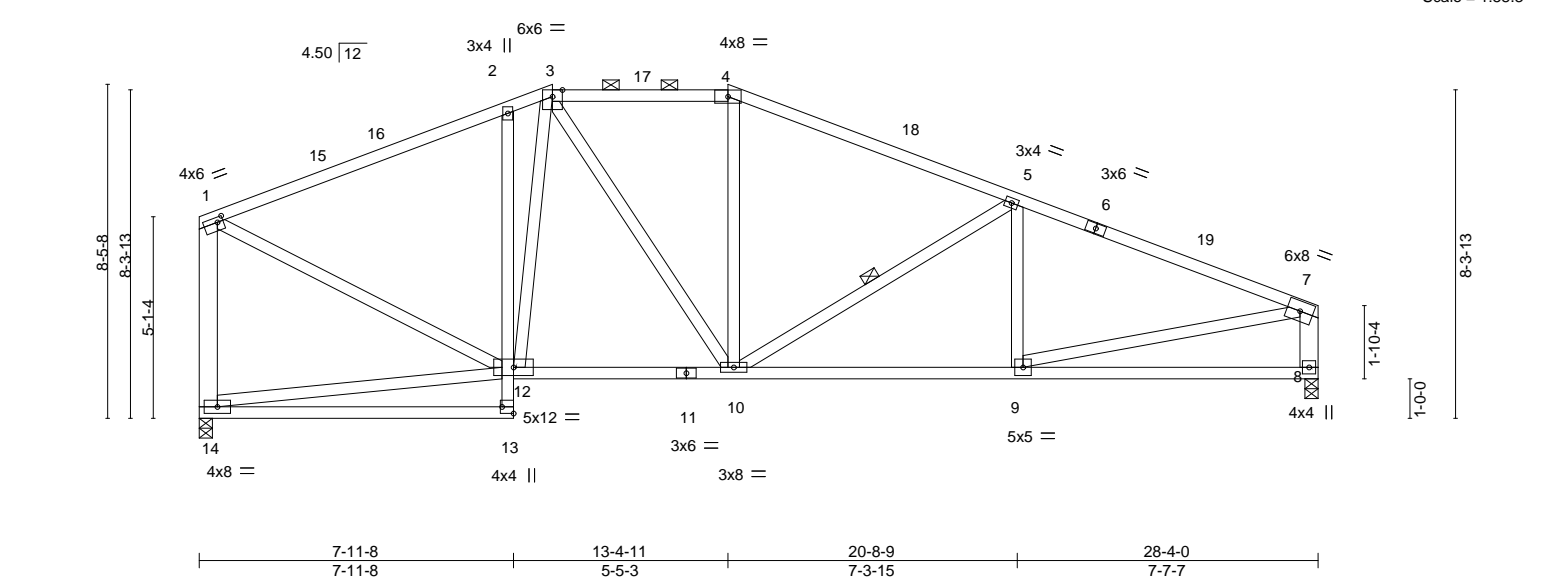


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [13:Edge,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.09 13-14 >999	240	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19 13-14 >999	180	
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.05 8 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 151 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2 *Except* 1-14,7-8: 2x6 SPF No.2	WEBS 1 Row at midpt 5-10

REACTIONS.	(size) 14=0-4-0, 8=0-4-0
	Max Horz 14=-159(LC 10)
	Max Uplift 14=-228(LC 8), 8=-233(LC 9)
	Max Grav 14=1533(LC 1), 8=1533(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1526/294, 2-3=-1460/352, 3-4=-1551/342, 4-5=-1777/328, 5-7=-2254/355, 1-14=-1458/250, 7-8=-1456/260
BOT CHORD	2-12=-569/241, 10-12=-158/1300, 9-10=-296/2010
WEBS	3-10=-134/539, 5-10=-572/195, 5-9=-255/120, 7-9=-247/1832, 1-12=-196/1404

- 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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 8-11-5, Exterior(2E) 8-11-5 to 13-4-11, Exterior(2R) 13-4-11 to 17-7-9, Interior(1) 17-7-9 to 28-1-4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=228, 8=233.
 - This truss 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.



February 26,2021

Job

2686850

Truss

C08

Truss Type

HIP GIRDER

Qty

1

Ply

2

SUMMIT/WOODS

DE RIDGE #3000

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

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Lee's Summit, Missouri

03/18/2021

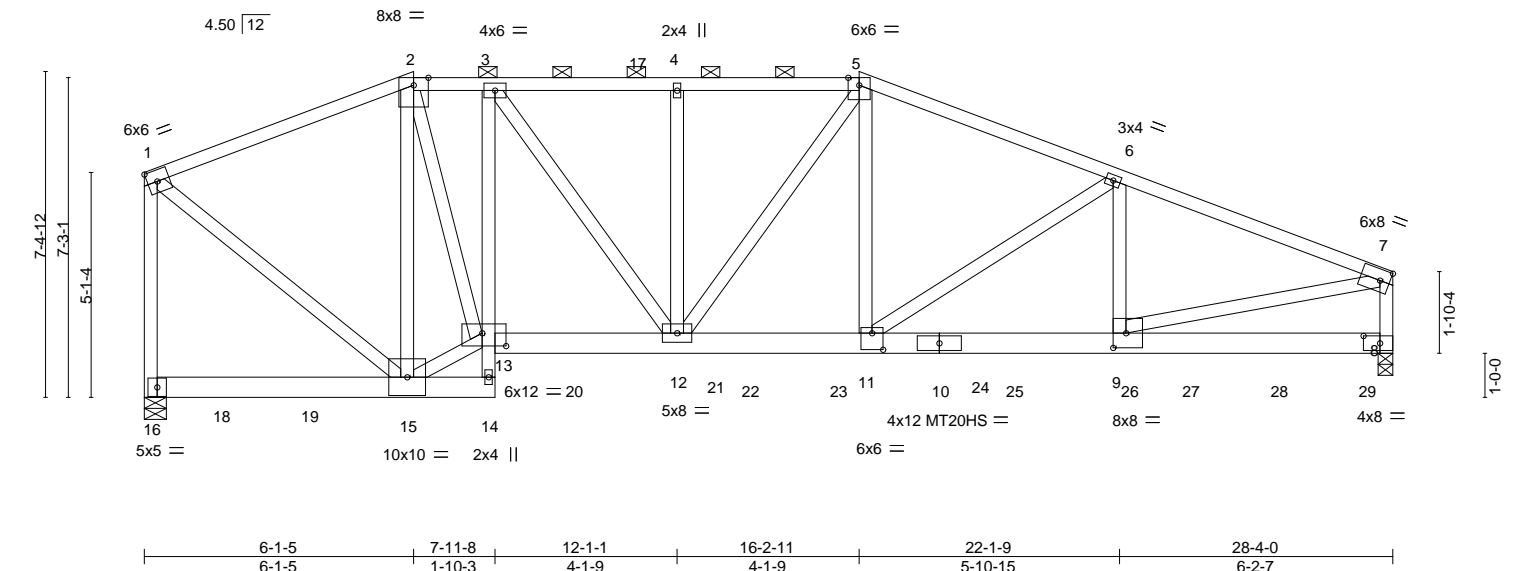
14976696

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/18/2021

Scale = 1:52.3



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3 MC
2686850	C08	HIP GIRDER	1	2		
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. CONSTRUCTION AS NOTED ON PLANS REVIEW DEPARTMENT SERVICES LEE'S SUMMIT MISSOURI 03/18/2021						
NOTES- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 703 lb down and 138 lb up at 1-8-12, 703 lb down and 155 lb up at 3-8-12, 703 lb down and 193 lb up at 5-8-12, 712 lb down and 128 lb up at 7-9-12, 671 lb down and 141 lb up at 9-8-12, 671 lb down and 141 lb up at 11-8-12, 671 lb down and 141 lb up at 13-8-12, 671 lb down and 141 lb up at 15-8-12, 671 lb down and 200 lb up at 17-8-12, 671 lb down and 162 lb up at 19-8-12, 643 lb down and 125 lb up at 21-8-12, 658 lb down and 129 lb up at 23-8-12, and 658 lb down and 136 lb up at 25-8-12, and 663 lb down and 135 lb up at 27-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.						

NOTES-

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: $1-2=-90$, $2-5=-90$, $5-7=-90$, $14-16=-20$, $8-13=-20$

Concentrated Loads (lb)

Vert: 14=-712(F) 15=-703(F) 18=-703(F) 19=-703(F) 20=-671(F) 21=-671(F) 22=-671(F) 23=-671(F) 24=-671(F) 25=-671(F) 26=-643(F) 27=-658(F) 28=-658(F) 29=-663(F)

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

2686850

Truss

D01

Truss Type

HALF HIP GIRDER

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #3000

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976697

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976697

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4-9-4

0-10-8

2-9-0

7-2-12

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4-5-12

4-9-4

03/18/2021

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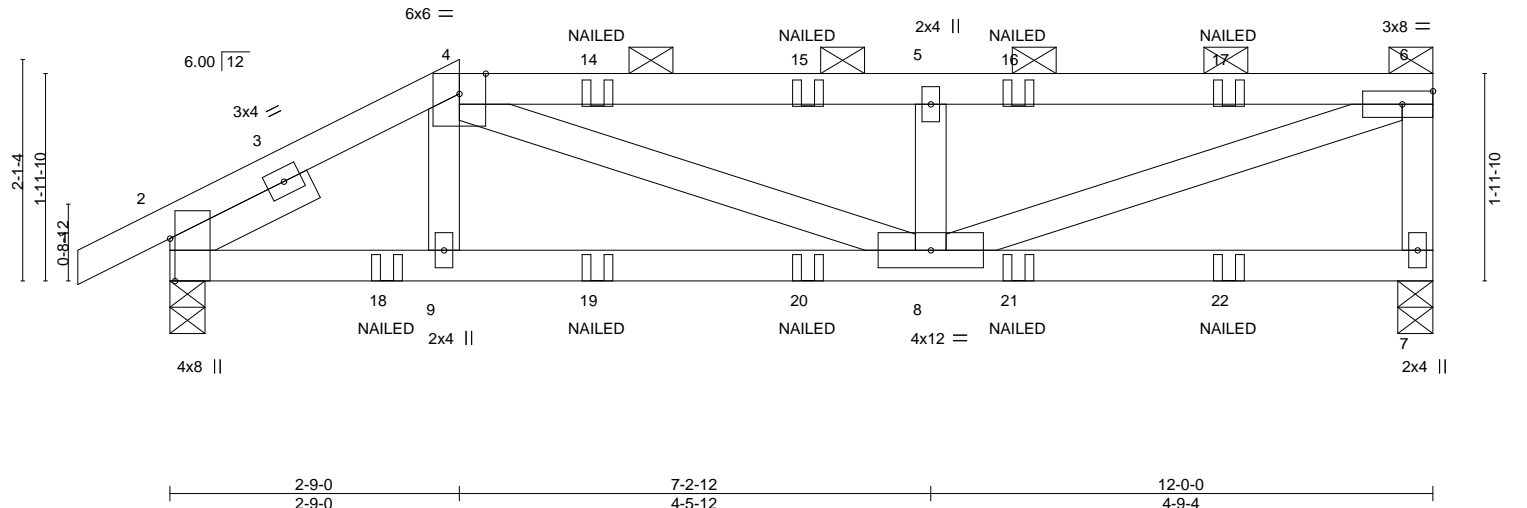


Plate Offsets (X,Y)--		[2:0-4-13,Edge]							
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.	
TCLL 25.0		Plate Grip DOL		1.15		TC 0.53		in (loc) l/defl L/d	
TCDL 20.0		Lumber DOL		1.15		BC 0.68		Vert(LL) -0.05 8-9 >999 240	
BCLL 0.0		Rep Stress Incr		NO		WB 0.44		Vert(CT) -0.11 8-9 >999 180	
BCDL 10.0		Code IRC2018/TPI2014				Matrix-MS		Horz(CT) 0.01 7 n/a n/a	
								PLATES GRIP	
								MT20 197/144	
								Weight: 46 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 1-6-0		

REACTIONS. (size) 7=0-4-0, 2=0-4-0
Max Horz 2=72(LC 7)
Max Uplift 7=-211(LC 5), 2=-209(LC 8)
Max Grav 7=916(LC 1), 2=1050(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1433/304, 4-5=-1784/411, 5-6=-1781/409, 6-7=-837/218
BOT CHORD 2-9=-305/1248, 8-9=-305/1234
WEBS 4-8=-169/629, 5-8=-632/219, 6-8=-425/1800

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=211, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-57(F) 15=-57(F) 16=-57(F) 17=-57(F) 18=-192(F) 19=-41(F) 20=-41(F) 21=-41(F) 22=-41(F)



February 26, 2021

Job

2686850

Truss

D02

Truss Type

HALF HIP

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

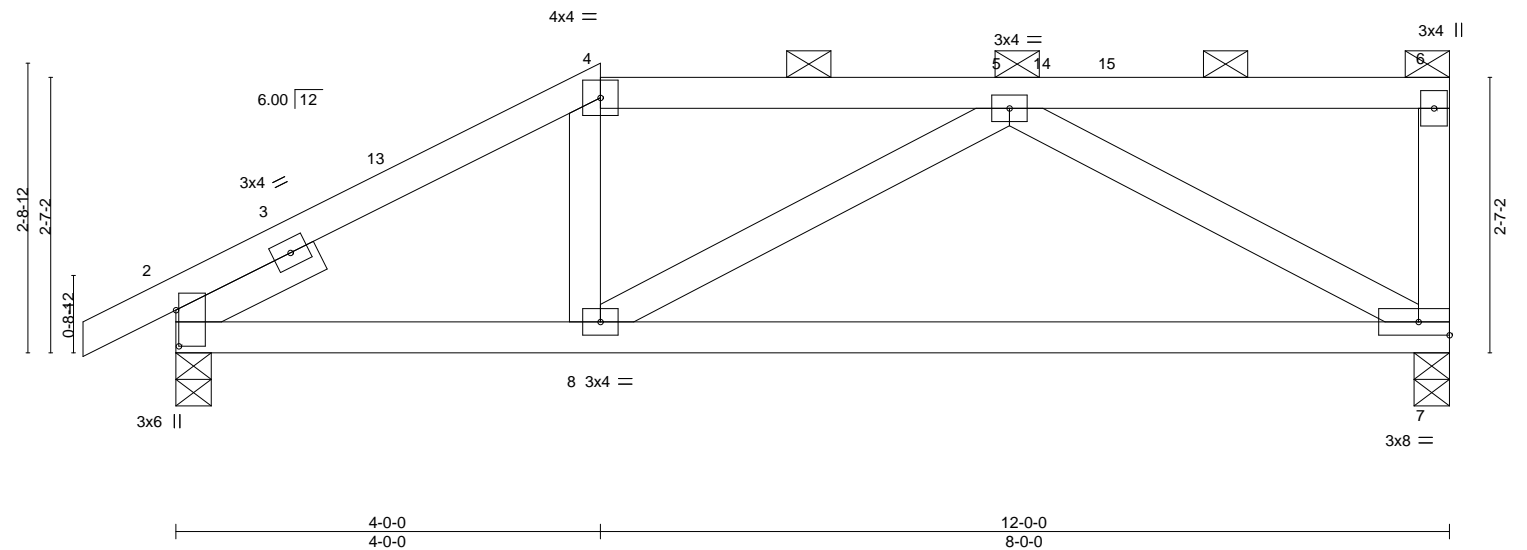
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14976698

03/18/2021

Scale = 1:21.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.10	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22				
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 46 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	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 4-6.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 - t 1-6-0		

REACTIONS.	
(size)	2=0-4-0, 7=0-4-0
Max Horz	2=98(LC 11)
Max Uplift	2=-91(LC 12), 7=-119(LC 9)
Max Grav	2=734(LC 1), 7=649(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-922/220, 4-5=-769/227
BOT CHORD	2-8=-246/774, 7-8=-251/766
WEBS	5-7=-810/261

- 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 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 11-10-4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=6) 7=119.
 - This truss 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.



February 26, 2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3071
2686850	D03	HALF HIP	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, MO 64086-3201			
			Job Reference (optional)			
			ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ccmw64ZS7nhegiN4ZKX3aiYhiaDisb_yviumc8zhJYf			
			12-0-0 6-6-0			
			03/18/2021			
			Scale = 1:22.0			

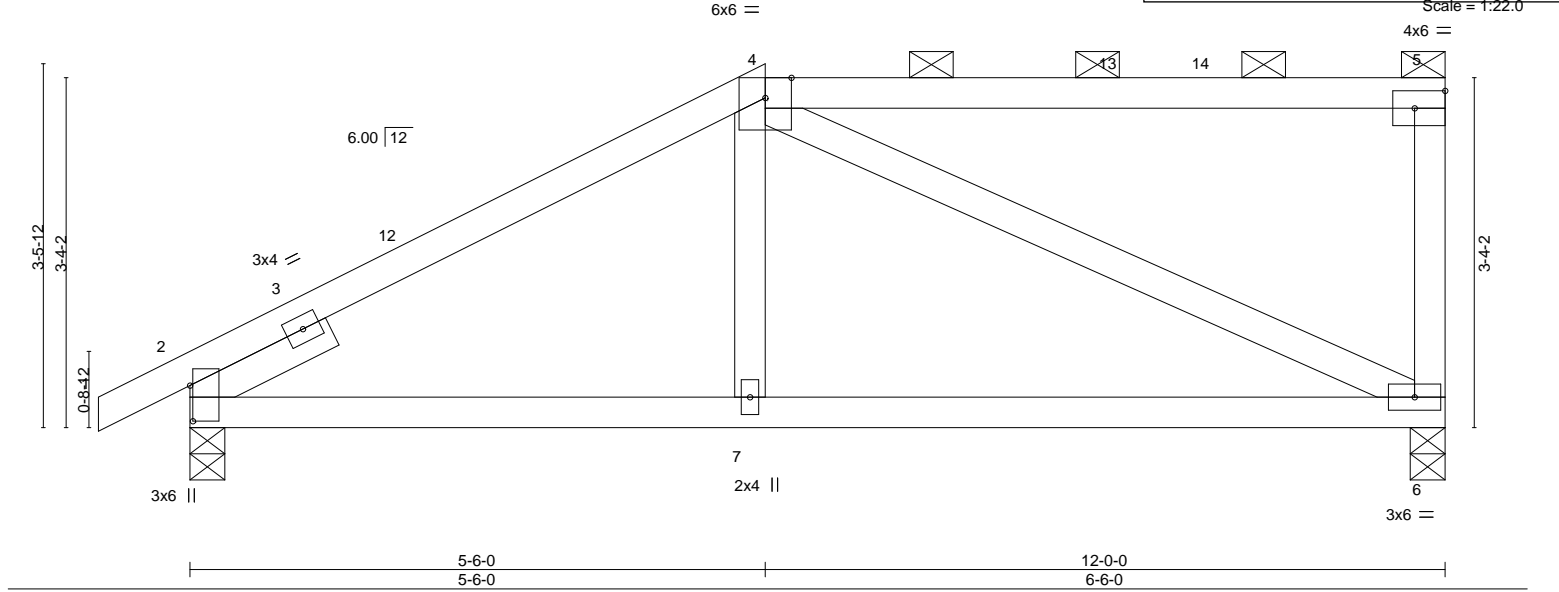


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5], [5:Edge,0-2-0]				
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.05 6-7 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.09 6-7 >999 180		
BCLL	0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.01 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 45 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.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 -t 1-6-0	

REACTIONS.	(size) 2=0-4-0, 6=0-4-0
	Max Horz 2=129(LC 11)
	Max Uplift 2=103(LC 12), 6=117(LC 9)
	Max Grav 2=734(LC 1), 6=649(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-851/212, 5-6=-292/112
BOT CHORD	2-7=-273/701, 6-7=-275/695
WEBS	4-6=-680/248

- 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 5-6-0, Exterior(2R) 5-6-0 to 9-8-15, Interior(1) 9-8-15 to 11-10-4 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
 - 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) 2=103, 6=117.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26,2021

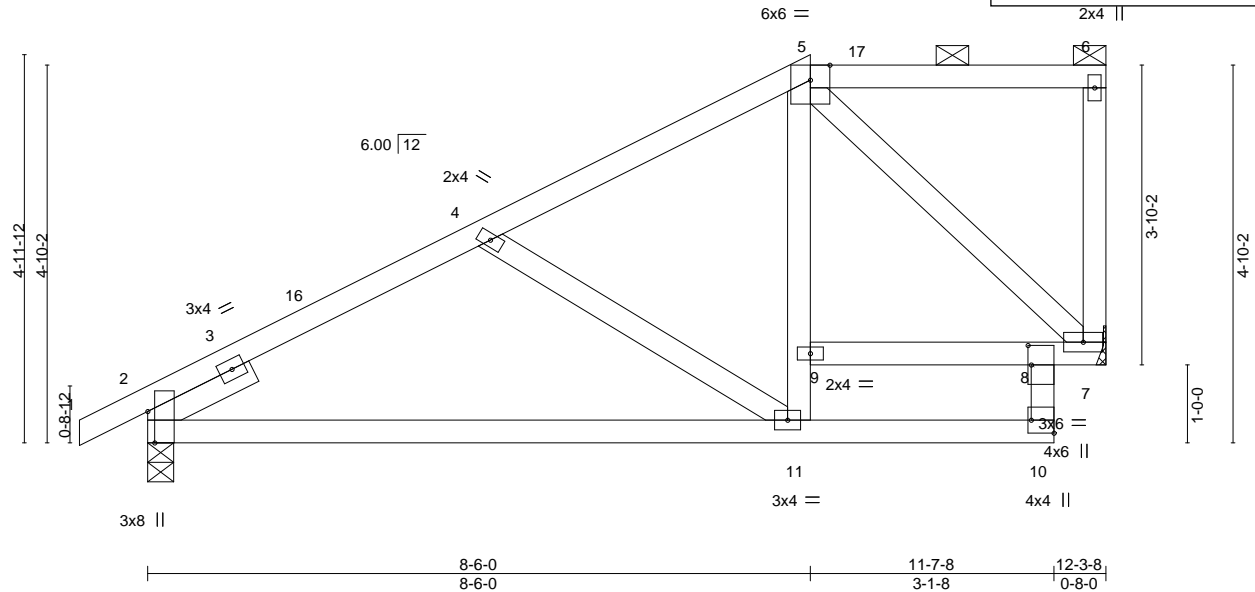


Plate Offsets (X,Y)-- [2:0-4-13,Edge], [8:0-3-0,0-0-8], [10:Edge,0-3-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.09	11-14	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.19	11-14	>781	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 56 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 1-6-0		

REACTIONS. (size) 7=Mechanical, 2=0-4-0
Max Horz 2=170(LC 9)
Max Uplift 7=-111(LC 9), 2=-116(LC 12)
Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD	2-4=-829/206, 4-5=-537/150
BOT CHORD	2-11=-345/736, 10-11=-134/306, 7-8=-190/423
WEBS	4-11=-389/196, 9-11=-26/352, 5-9=-25/325, 5-7=-586/208

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 8-6-0, Exterior(2E) 8-6-0 to 12-1-12 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) 7=111, 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.



February 26, 2021



WARNING – Verify design parameters and NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC MHP-433 (Rev. 3/15/2020) 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, 2602 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 2686850

Truss: D06

Truss Type: HALF HIP

Qty: 1

Ply: 1

Job Reference (optional): 8.430 s Feb 12 2021 MiTek Industries, Inc.

Summit/Woods Ridge #3070

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-Y_tgXmaieOxMv?XSgIzXf7d6BNqGKaXFN0Ntg1zhJYd

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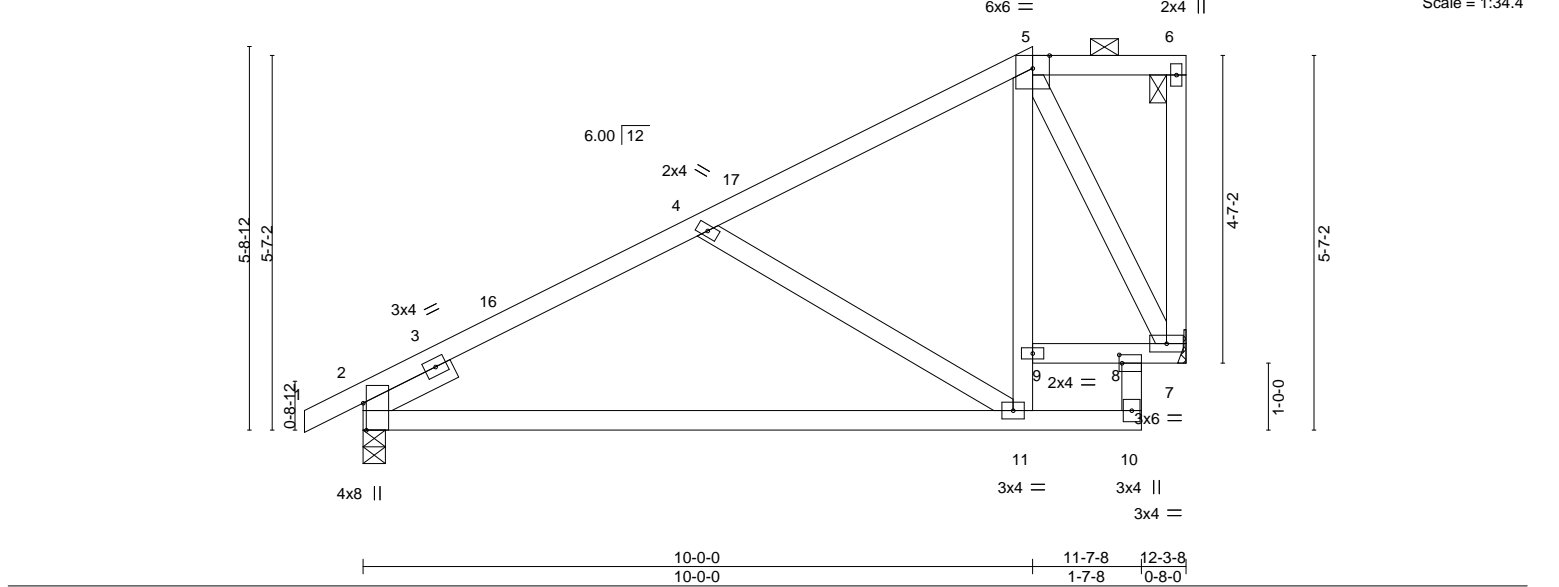


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [8:0-0-8,0-1-8]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	in (loc)	l/defl	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.58	Vert(LL)	-0.16 11-14 >939		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Vert(CT)	-0.32 11-14 >456		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.02 7 n/a n/a		
								Weight: 57 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	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 -t 1-6-0		

REACTIONS. (size) 7=Mechanical, 2=0-4-0
Max Horz 2=201(LC 9)
Max Uplift 7=114(LC 12), 2=116(LC 12)
Max Grav 7=665(LC 1), 2=750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-798/195, 4-5=-408/120
BOT CHORD 2-11=-331/705, 7-8=-137/270
WEBS 4-11=-509/231, 9-11=-26/499, 5-9=-48/427, 5-7=-605/198

- 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 10-0-0, Exterior(2E) 10-0-0 to 12-1-12 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) 7=114, 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.



February 26,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3070
2686850	D07	HALF HIP	1	1		

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976703

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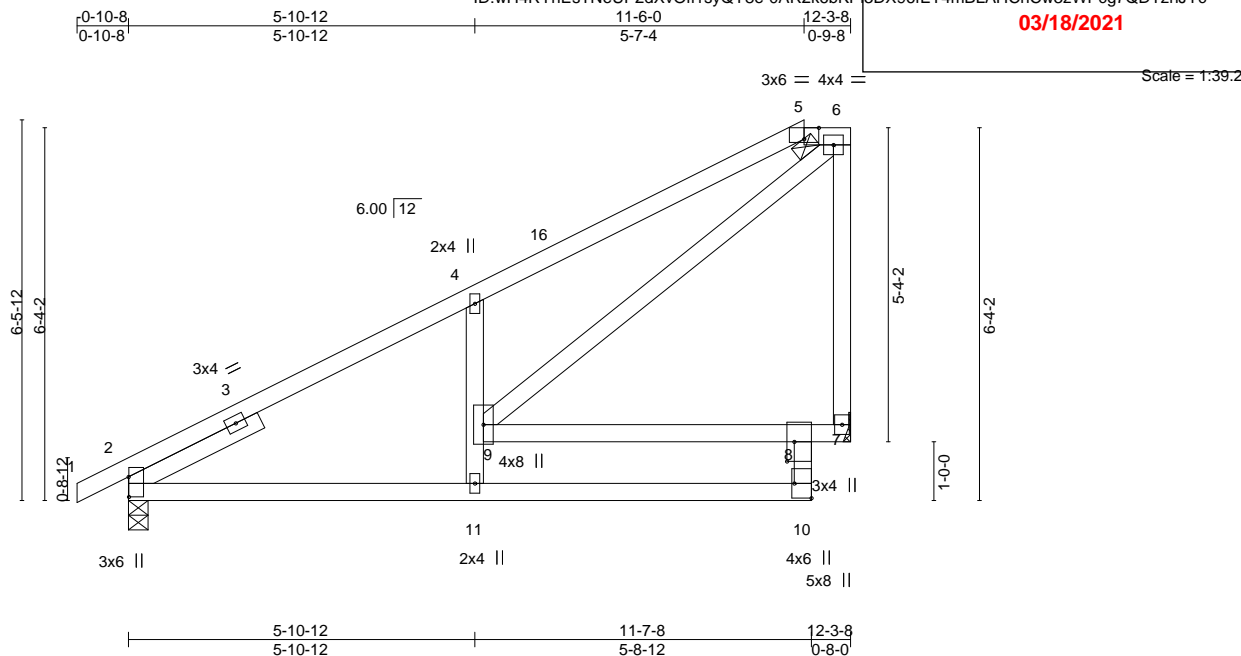


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [5:0-3-0,Edge], [8:0-4-0,0-1-8], [10:Edge,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.05 11-14 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.11 11-14 >999 180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.06 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
SLIDER Left 2x4 SPF No.2 -t 2-6-0

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) 7=Mechanical, 2=0-4-0
Max Horz 2=232(LC 9)
Max Uplift 7=145(LC 12), 2=112(LC 12)
Max Grav 7=665(LC 25), 2=750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-745/156, 4-5=-976/290, 5-6=-760/293, 6-7=-543/266
BOT CHORD 2-11=-284/666, 10-11=-134/421, 8-9=-429/167
WEBS 4-9=-573/310, 6-9=-367/999

- 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 11-6-0, Exterior(2E) 11-6-0 to 12-1-12 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) 7=145, 2=112.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2686850

Truss

D08

Truss Type

JACK-CLOSED

Qty

5

Ply

1

SUMMIT/WOODS

DE RIDGE #30701

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976704

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOf1syQY8e-UN?QxScyA0B49JhroAc?kYjPIBYgoOZYqKs_lvzhJYb

03/18/2021

0-10-8

5-11-8

11-7-8

12-3-8

0-10-8

5-8-0

0-8-0

0-10-8

5-11-8

11-7-8

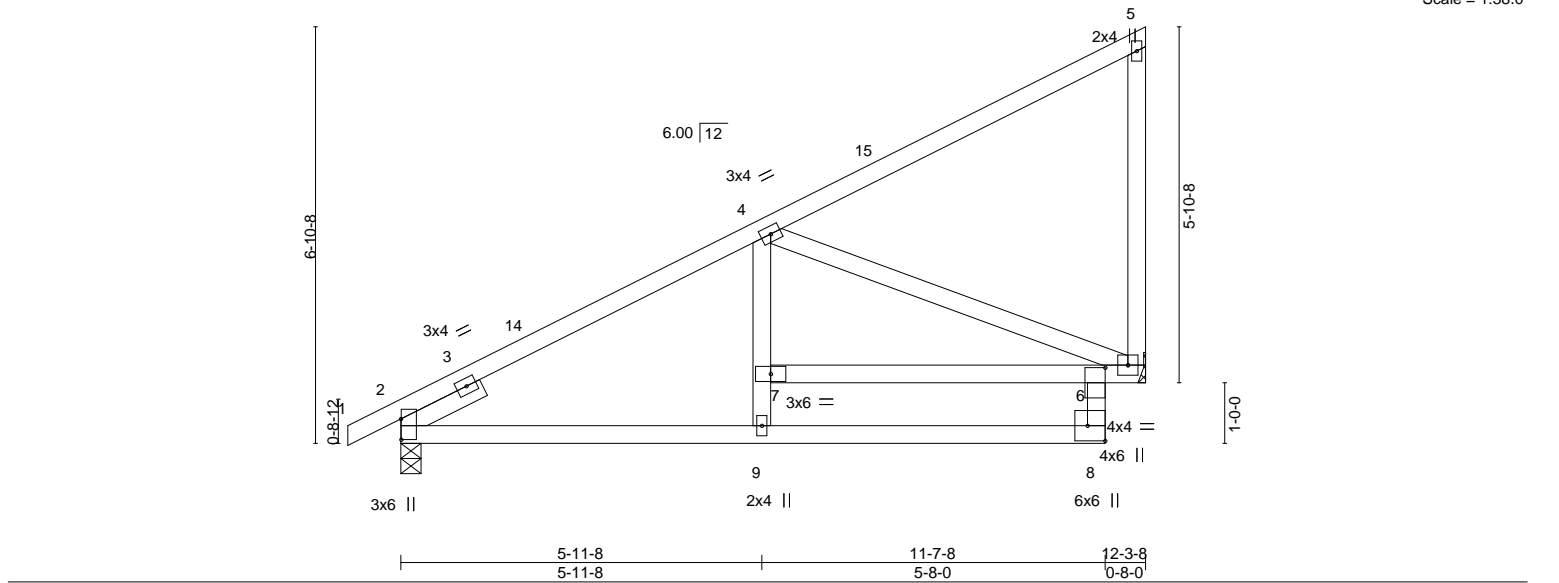
12-3-8

0-10-8

5-8-0

0-8-0

Scale = 1:38.0



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 0.55	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.11	9-12	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.08	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 57 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 1-6-0	

REACTIONS. (size) 2=0-4-0, 6=Mechanical
Max Horz 2=225(LC 12)
Max Uplift 2=-57(LC 12), 6=-88(LC 12)
Max Grav 2=781(LC 1), 6=744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-846/8
BOT CHORD 2-9=-201/730, 8-9=-78/445, 6-8=-40/350, 6-7=-175/403
WEBS 4-7=0/289, 4-6=-910/271

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



February 26,2021

Job

2686850

Truss

D09

Truss Type

JACK-CLOSED

Qty

3

Ply

1

SUMMIT/WOODS

DE RIDGE #30705

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976705

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-UN?QxScyA0B49JhroAc?kYjR9BbyoQcYqKs_lvzhJYb

03/18/2021

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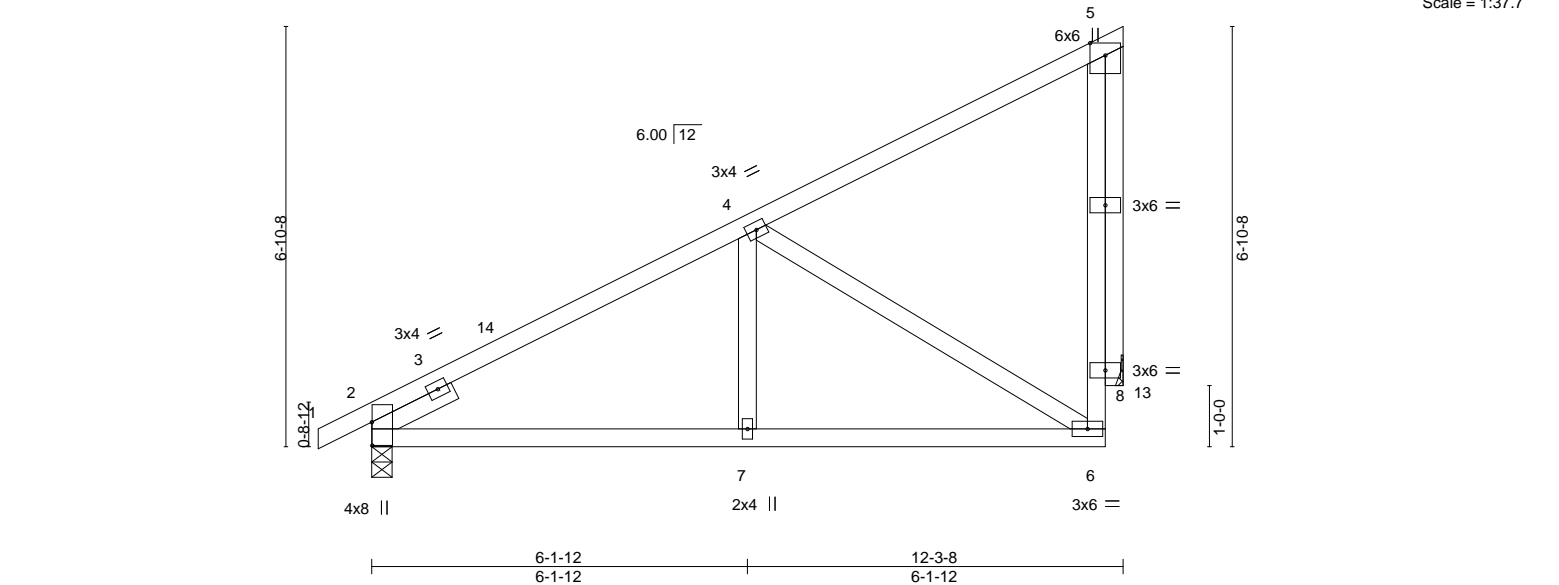


Plate Offsets (X,Y)--		[2:0-4-9,0-0-1]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	6-7	>999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	7-11	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	13	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS						Weight: 57 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	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 1-6-0		

REACTIONS. (size) 2=0-4-0, 13=Mechanical
 Max Horz 2=209(LC 12)
 Max Uplift 2=-74(LC 12), 13=-117(LC 12)
 Max Grav 2=754(LC 1), 13=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-803/48, 6-8=-88/435, 5-8=-88/435
 BOT CHORD 2-7=-207/683, 6-7=-207/683
 WEBS 4-7=0/253, 4-6=-729/215, 5-13=-631/164

- 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 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) 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) 13=117.
 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26,2021

Job

2686850

Truss

D10

Truss Type

HALF HIP

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #307

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976706

ID:wH4RYhEsTNeUPdXvOfi1syQY8e-yZZp9ocbxJxmTG1M7FHmFcubx9Xt?i3_cXHLzhJYa

03/18/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

6-2-11

12-1-14

12-3-8

0-10-8

6-2-11

5-11-3

0-1-10

Scale = 1:37.5

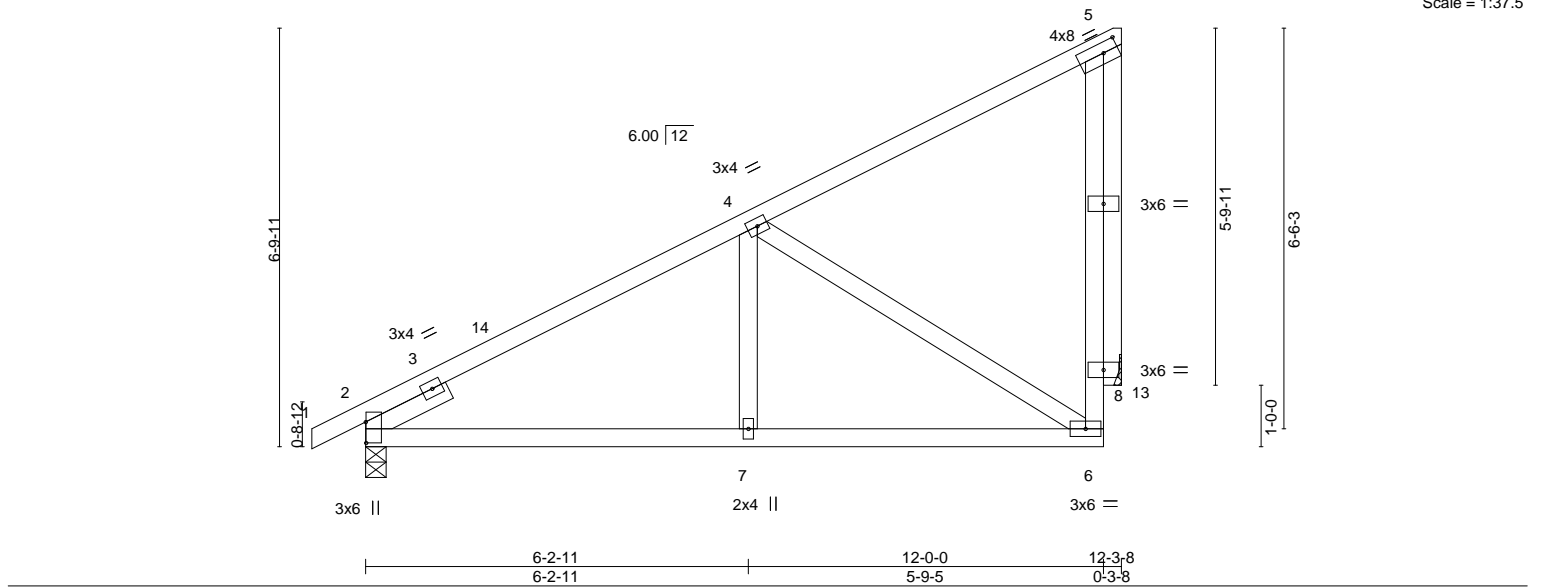


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1], [5:0-2-15,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	0.03 7-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.06 7-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 57 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	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 1-6-0		

REACTIONS.	
(size)	2=0-4-0, 13=Mechanical
Max Horz	2=240(LC 12)
Max Uplift	2=-79(LC 12), 13=-183(LC 12)
Max Grav	2=754(LC 1), 13=629(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-798/51, 6-8=-100/440, 5-8=-100/440
BOT CHORD	2-7=-205/677, 6-7=-205/677
WEBS	4-7=0/254, 4-6=-728/230, 5-13=-631/184

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) 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) 13=183.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26,2021

Job

2686850

Truss

D11

Truss Type

HALF HIP

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Lee's Summit, Missouri

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-Rl7BM8dDidRoDrdVbeUpzooJ_HOGNZrleL4pozHJYZ

03/18/2021

14976707

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

Scale = 1:35.5

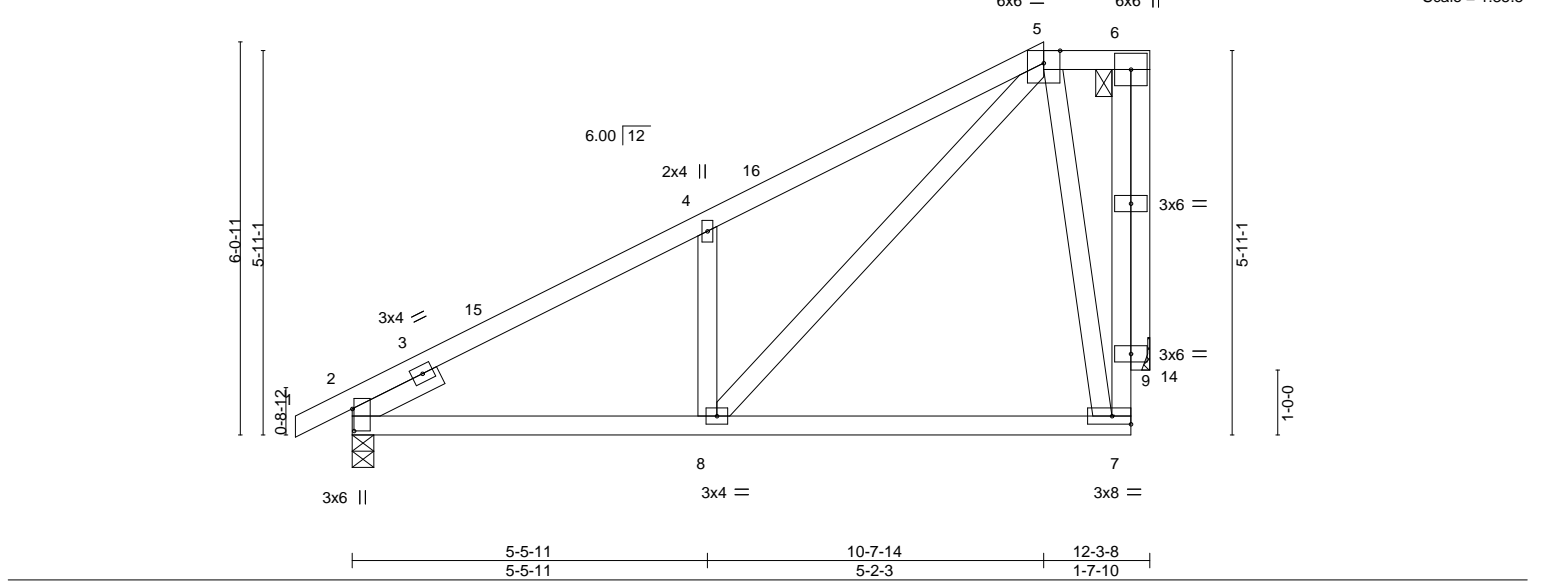


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.10	7-8	>999	180			
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	-0.01	14	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS								
									Weight: 61 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	BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied.
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 - t 1-6-0		

REACTIONS. (size) 2=0-4-0, 14=Mechanical
Max Horz 2=212(LC 12)
Max Uplift 2=91(LC 12), 14=-150(LC 12)
Max Grav 2=754(LC 1), 14=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-877/82, 4-5=-910/215, 7-9=-253/649, 6-9=-253/649
BOT CHORD 2-8=-262/719
WEBS 4-8=-472/240, 5-8=-258/804, 5-7=-599/282, 6-14=-631/209

- 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 10-7-14 to 11-10-4 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.
 - 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=150.
 - This truss 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.



February 26,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3700
2686850	D12	HALF HIP	1	1		

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976708

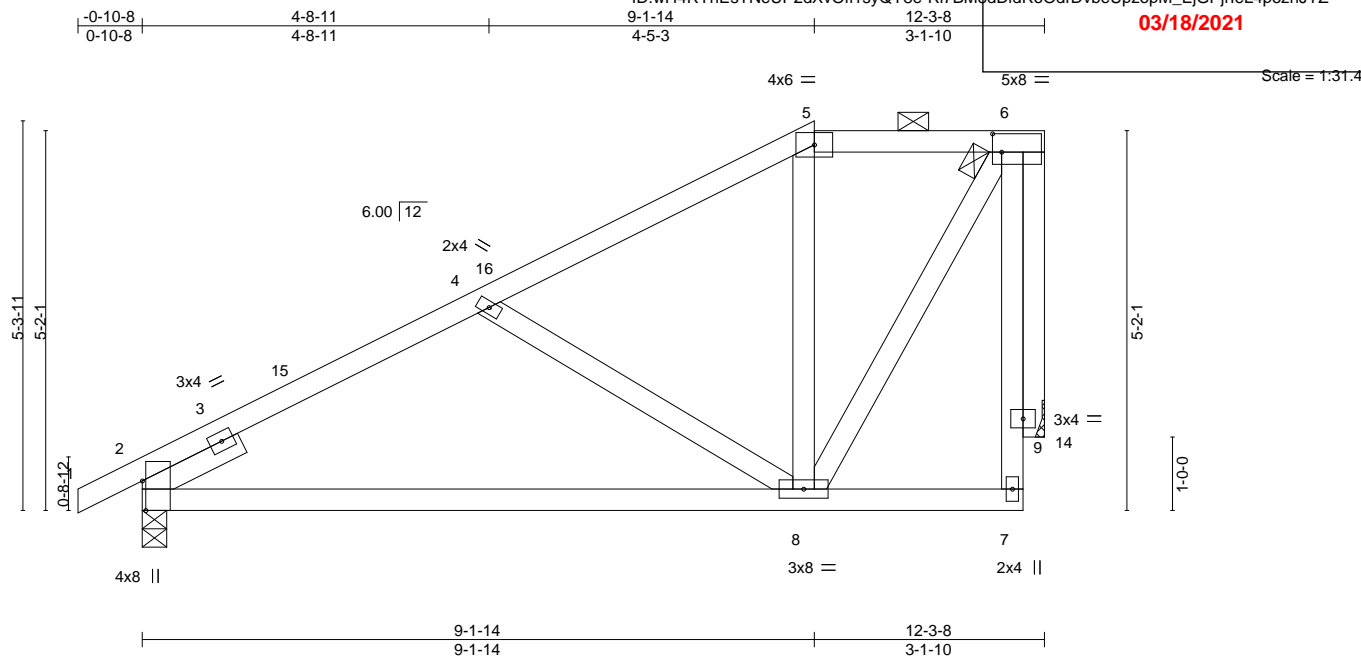


Plate Offsets (X,Y)-- [2:0-4-13,Edge], [6:0-1-8,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.11 8-12	>999	240
TCDL 20.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.22 8-12	>664	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.02 14	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES	GRIP		
				MT20	197/144		
				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 2x4 SPF No.2 - t 1-6-0

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=0-4-0, 14=Mechanical
Max Horz 2=181(LC 12)
Max Uplift 2=99(LC 12), 14=115(LC 12)
Max Grav 2=754(LC 1), 14=629(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-828/154, 4-5=-494/68, 5-6=-364/109
BOT CHORD 2-8=-301/732
WEBS 4-8=-440/208, 6-8=-184/611, 6-14=-632/186

- 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 9-1-14, Exterior(2E) 9-1-14 to 11-10-4 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
 - 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=115.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 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 2686850	Truss D13	Truss Type HALF HIP	Qty 1	Ply 1	SUMMIT/WOODSIDE RIDGE #3070
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14976709		
ID: wH4RYhEsTNeUP2dXvOf1syQY8e-vyhZaUerTxZf0nQQTI9jMBL_zOc_?qj_Xl5eMEzhJYY			Job Reference (optional) LEE'S SUMMIT, MISSOURI		
-0-10-8 0-10-8			4-6-14 4-6-14		
7-7-14 3-1-0			12-3-8 4-7-10		
			03/18/2021		

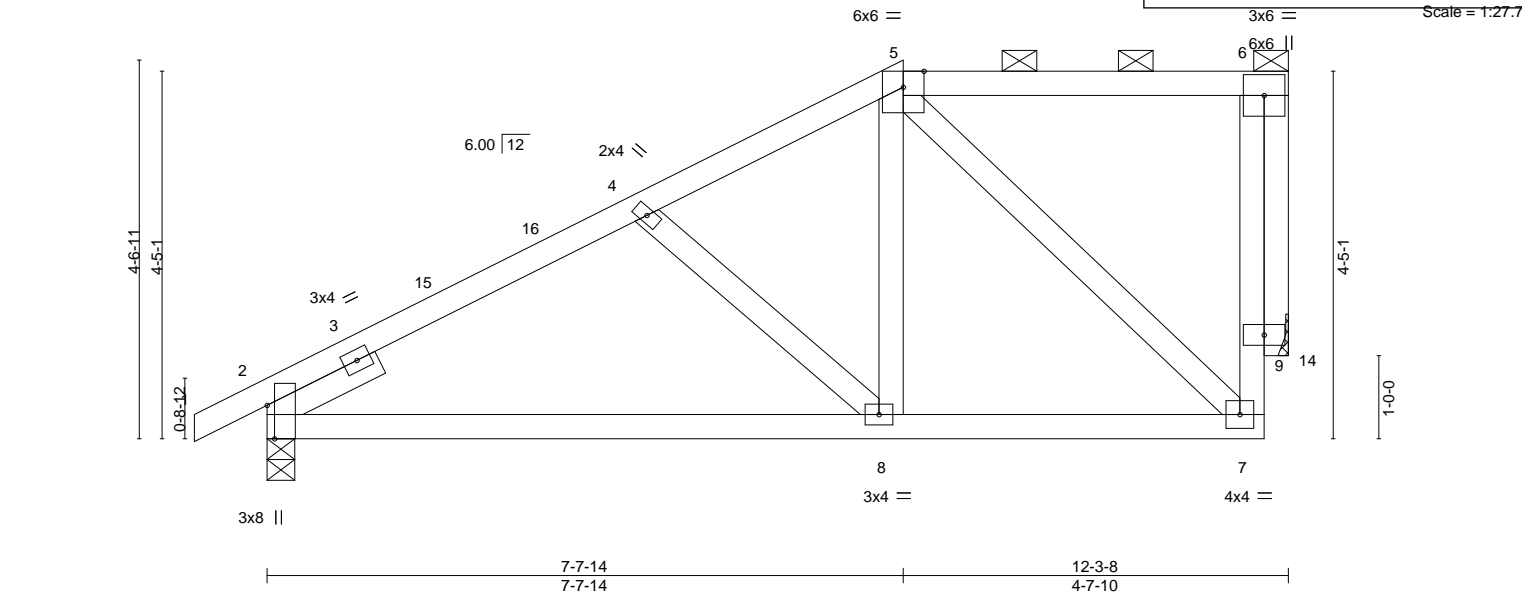


Plate Offsets (X,Y)-- [2:0-4,13,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.05 8-12	>999	240
TCDL 20.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.11 8-12	>999	180
BCLL 0.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02 14	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 55 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 2x4 SPF No.2 - t 1-6-0	

REACTIONS. (size) 2=0-4-0, 14=Mechanical
 Max Horz 2=151(LC 12)
 Max Uplift 2=-102(LC 12), 14=-97(LC 9)
 Max Grav 2=754(LC 1), 14=629(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-825/177, 4-5=-617/129, 7-9=-114/441, 6-9=-114/441
 BOT CHORD 2-8=-292/721, 7-8=-162/489
 WEBS 5-8=-53/357, 5-7=-570/174, 4-8=-292/168, 6-14=-635/182

- 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 7-7-14, Exterior(2E) 7-7-14 to 11-10-4 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=102.
 - This truss 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.



February 26, 2021

Job

2686850

Truss

D14

Truss Type

HALF HIP

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

8.430 s Feb 12 2021

MiTek Industries, Inc.

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-N8FxnptEEhVdw_c10gyuOt57owzkFC8lyqBugzhJYX

12-0-0

4-10-2

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/18/2021

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Scale = 1:26.3

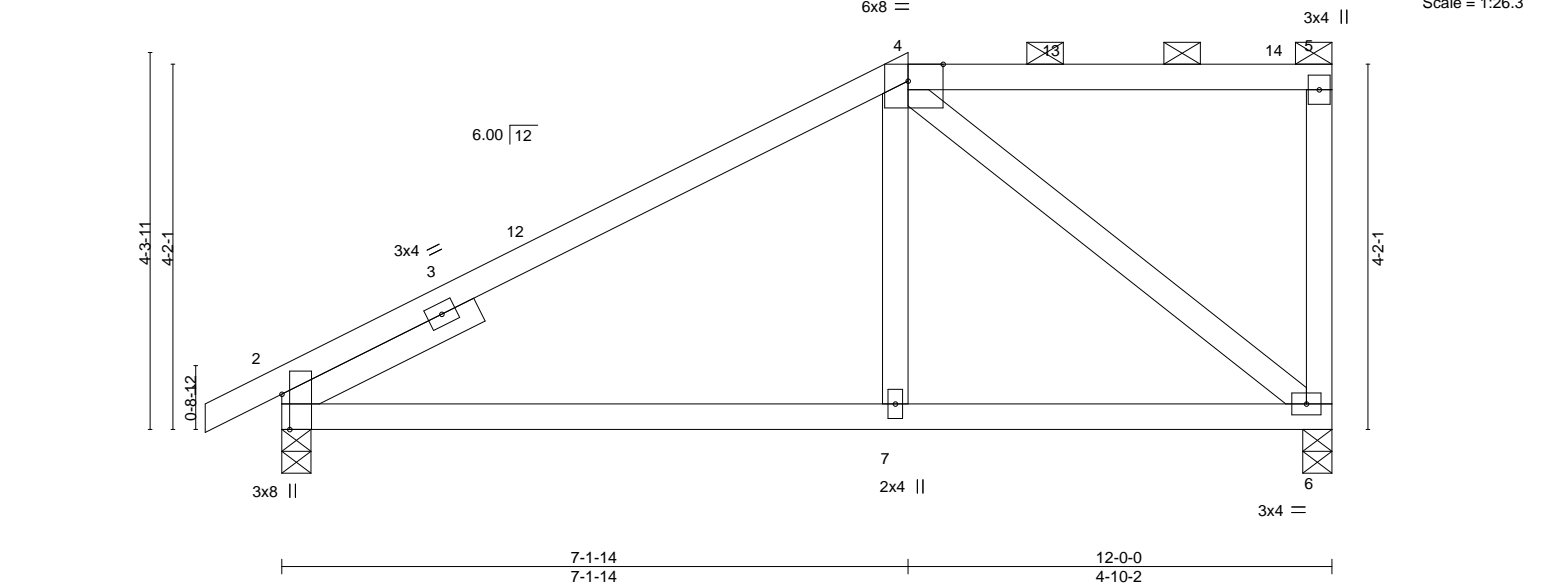


Plate Offsets (X,Y)--		[2:0-4-13,Edge], [4:0-4-13,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.56
TCDL 20.0	Lumber DOL	1.15	BC 0.43
BCLL 0.0	Rep Stress Incr	YES	WB 0.46
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.06 7-10 >999 240
			Vert(CT) -0.13 7-10 >999 180
			Horz(CT) 0.03 2 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 47 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.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SPF No.2 -t 2-6-0	

REACTIONS.	(size) 2=0-4-0, 6=0-4-0
	Max Horz 2=164(LC 11)
	Max Uplift 2=112(LC 12), 6=113(LC 9)
	Max Grav 2=734(LC 1), 6=649(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-661/177
BOT CHORD	2-7=-257/563, 6-7=-258/556
WEBS	4-7=0/279, 4-6=-702/276

- 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 7-1-14, Exterior(2R) 7-1-14 to 11-4-13, Interior(1) 11-4-13 to 11-10-4 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
 - 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) 2=112, 6=113.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26,2021



Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #30711
2686850	D15	Roof Special Girder	1	1	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.430 s Feb 12 2021 MiTek Industries, Inc. L-Ed 55140848-42055081
					ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-JXMiCVgmsxDtE8?8RiQ_pzQzcUhC2TRDFJlyZzhJYV

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-90, 5-8=-90, 8-9=-90, 9-10=-90, 10-11=-90, 11-15=-90, 15-18=-90, 24-32=-20, 20-23=-20, 19-36=-20
Concentrated Loads (lb)
Vert: 20=-192(B) 39=-57(B) 40=-38(B) 41=-38(B) 42=-38(B) 43=-38(B) 44=-41(B) 45=-61(B) 46=-61(B) 47=-61(B) 48=-61(B)

Job: 2686850

Truss: D16

Truss Type: Roof Special

Qty: 1

Ply: 1

SUMMIT/WOODS: DE RIDGE #3071

Job Reference (optional): 8.430 s Feb 12 2021 MiTek Industries, Inc. 14976712

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID: wH4RYhEstNeUP2dXvOfi1syQY8e-njw4PrhLX944UOjBi8EW1VWD?zuxZfaRv3rV?zhJYU

0-10-8
0-10-8

4-3-0
4-3-0

8-1-0
3-10-0

9-11-0
1-10-0

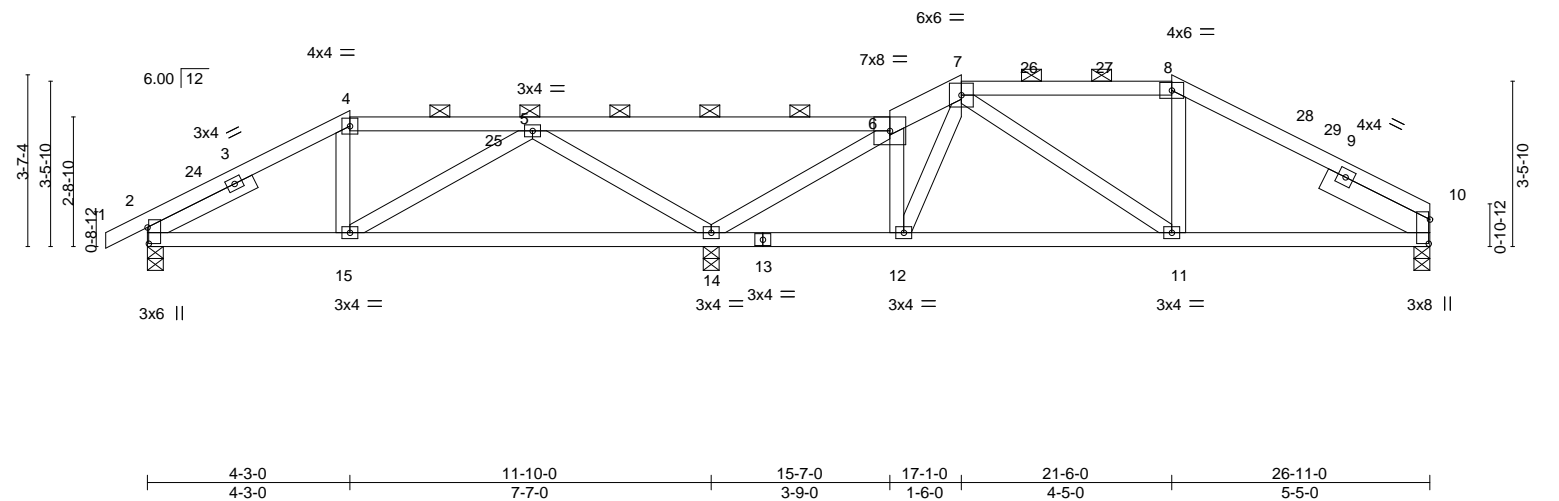
15-7-0
5-8-0

17-1-0
1-6-0

21-6-0
4-5-0

26-11-0
5-5-0

Scale: 1/4"=1'



Job

2686850

Truss

D17

Truss Type

Roof Special Girder

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976713

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976713

0-10-8

2-9-0

6-2-0

9-7-0

10-3-11

14-1-0

15-7-0

19-3-8

23-0-0

26-11-0

0-10-8

2-9-0

3-5-0

3-5-0

0-8-11

3-9-5

1-6-0

3-8-8

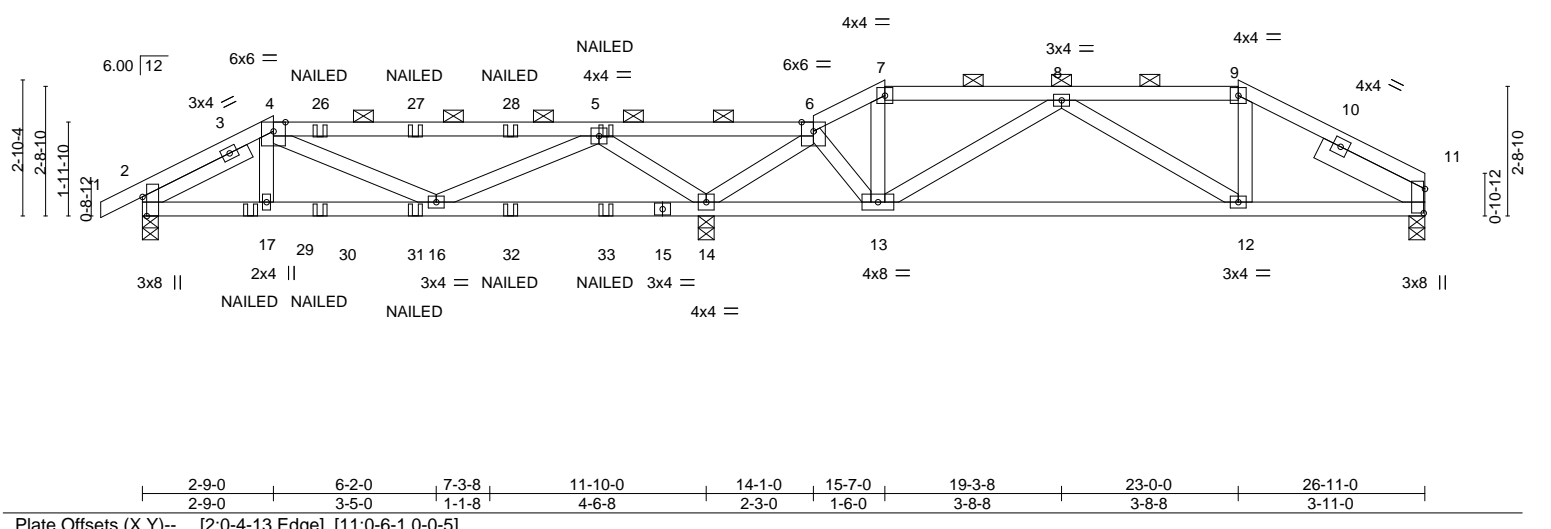
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03/18/2021

Scale: 1/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.09 12-13 >999 240	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.19 12-13 >955 180				
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.03 11 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS							
								Weight: 105 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-6: 2x4 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 4-10-11 oc purlins, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (5-3-4 max.): 4-6, 7-9.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
SLIDER	Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0		

REACTIONS. (size) 11=0-4-0, 2=0-4-0, 14=0-4-0
Max Horz 2=55(LC 29)
Max Uplift 11=108(LC 30), 2=217(LC 8), 14=376(LC 4)
Max Grav 11=670(LC 1), 2=869(LC 21), 14=2103(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1130/325, 4-5=-801/228, 5-6=-233/1362, 6-7=-440/242, 7-8=-363/215, 8-9=-749/161, 9-11=-881/170
BOT CHORD 2-17=-298/1031, 16-17=-297/1018, 14-16=-257/215, 13-14=-261/167, 12-13=-252/806, 11-12=-115/756
WEBS 5-14=-1846/481, 6-14=-1421/203, 6-13=-124/745, 5-16=-56/763, 8-13=-684/175

- 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 108 lb uplift at joint 11, 217 lb uplift at joint 2 and 376 lb uplift at joint 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-7=-90, 7-9=-90, 9-11=-90, 18-22=-20

Concentrated Loads (lb)

Vert: 5=-57(B) 26=-57(B) 27=-57(B) 28=-57(B) 29=-210(B) 30=-41(B) 31=-41(B) 32=-41(B) 33=-41(B)



February 26, 2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3700
2686850	E02	HALF HIP	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 144976714			
			Job Reference (optional)			
			ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-ClcC2tjEq4SfLrSmNGnM8f72DDxq8?o08tHW6KzhJYR			
			03/18/2021			
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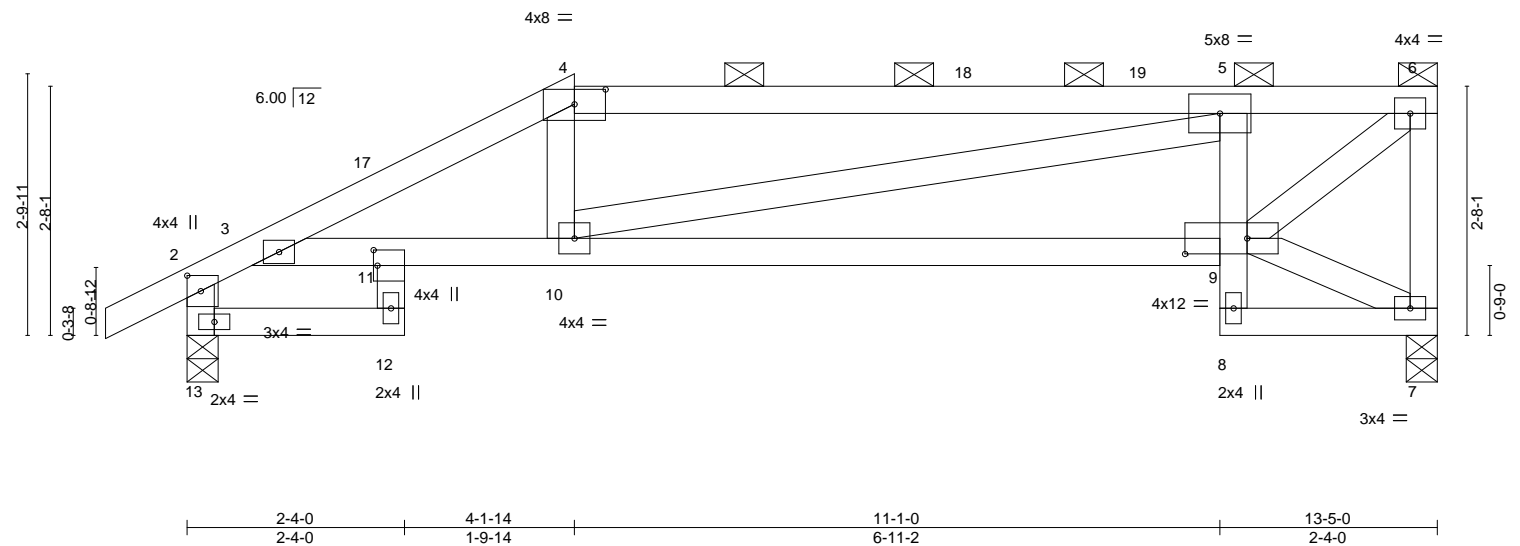


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [4:0-4-0,0-1-15], [9:0-8-0,0-2-0], [11:0-2-0,0-0-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.78	Vert(LL)	-0.07	9-10	>999	240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15		BC	0.53	Vert(CT)	-0.16	9-10	>999	180	
BCLL	0.0	Rep Stress Incr YES		WB	0.26	Horz(CT)	0.05	7	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 54 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 (3-10-0 max.): 4-6.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS.	(size) 7=0-4-0, 13=0-4-0
	Max Horz 13=106(LC 9)
	Max Uplift 7=133(LC 9), 13=98(LC 12)
	Max Grav 7=718(LC 1), 13=817(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-529/122, 3-4=-1505/329, 4-5=-1345/341, 5-6=-834/190, 6-7=-663/163, 2-13=-808/239
BOT CHORD	3-11=-229/1122, 10-11=-390/1355, 9-10=-259/1040, 5-9=-611/213
WEBS	4-10=0/267, 5-10=-137/310, 6-9=-251/1067

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-14, Exterior(2R) 4-1-14 to 8-4-13, Interior(1) 8-4-13 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 7 and 98 lb uplift at joint 13.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26,2021

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

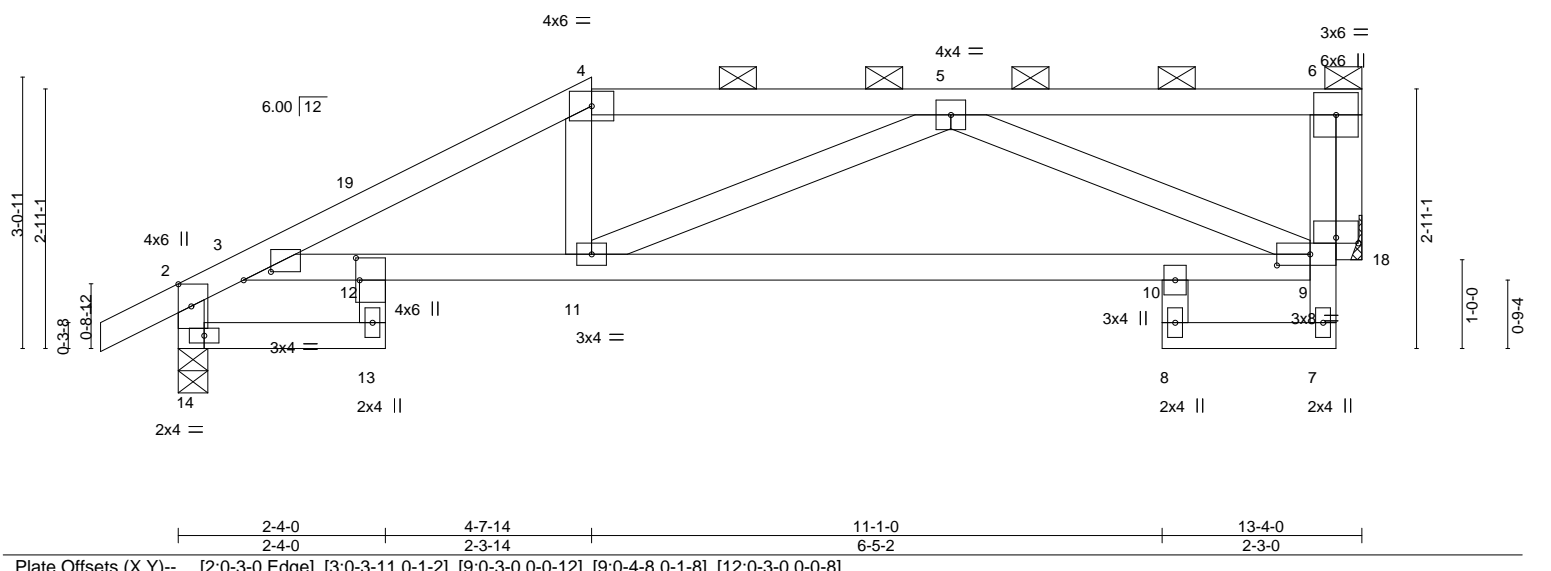


Plate Offsets (X, Y)--		[2:0-3-0,Edge], [3:0-3-11,0-1-2], [9:0-3-0,0-0-12], [9:0-4-8,0-1-8], [12:0-3-0,0-0-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49
TCDL 20.0	Lumber DOL	1.15	BC 0.67
BCLL 0.0	Rep Stress Incr	YES	WB 0.40
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.08 10-11 >999 240
			Vert(CT) -0.17 10-11 >929 180
			Horz(CT) 0.05 18 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 53 lb FT = 20%

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

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

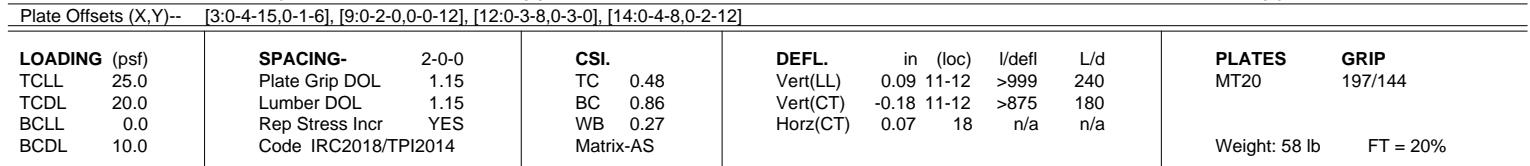
REACTIONS. (size) 14=0-4-0, 18=Mechanical
Max Horz 14=87(LC 9)
Max Uplift 14=98(LC 12), 18=121(LC 9)
Max Grav 14=817(LC 1), 18=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-574/111, 3-4=-1381/286, 4-5=-1201/300, 5-6=-254/1, 6-9=-95/495, 2-14=-802/234
BOT CHORD 13-14=-163/286, 3-12=-157/930, 11-12=-317/1216, 10-11=-288/1183, 9-10=-235/1206
WEBS 4-11=0/296, 5-9=-1038/339, 6-18=-697/146

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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 4-7-14, Exterior(2R) 4-7-14 to 8-8-7, Interior(1) 8-8-7 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 bearing connections.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 14 and 121 lb uplift at joint 18.
 - This truss 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.



February 26, 2021



REACTIONS. (size) 14=0-4-0, 18=Mechanical
 Max Horz 14=113(LC 12)
 Max Uplift 14=-107(LC 12), 18=-116(LC 9)
 Max Grav 14=817(LC 1), 18=678(LC 1)

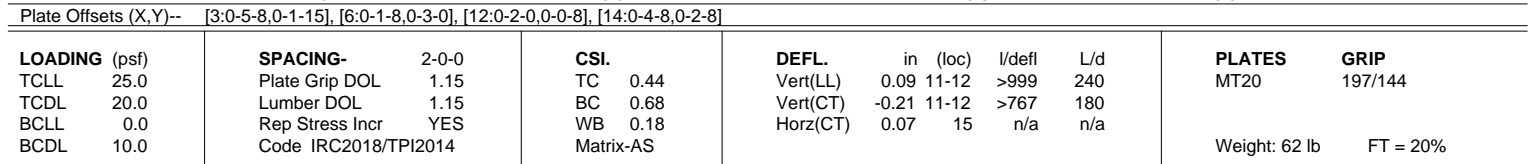
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-638/168, 3-4=-1161/246, 4-5=-991/279, 6-9=-116/523, 2-14=-803/233
BOT CHORD	13-14=-152/318, 3-12=-63/635, 11-12=-294/993, 10-11=-206/760, 9-10=-172/748
WEBS	5-9=-785/251, 5-11=-115/288, 6-18=-687/158

- 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 6-1-14, Exterior(2R) 6-1-14 to 10-4-13, Interior(1) 10-4-13 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 14 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 107 lb uplift at joint 14 and 116 lb uplift at joint 18.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021



REACTIONS. (size) 14=0-4-0, 15=Mechanical
 Max Horz 14=143(LC 12)
 Max Uplift 14=-111(LC 12), 15=-109(LC 9)
 Max Grav 14=817(LC 1), 15=678(LC 1)

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

TOP CHORD	3-4=-1215/287, 4-5=-900/209, 5-6=-759/214, 2-14=-395/127
BOT CHORD	13-14=-242/432, 3-12=-310/891, 11-12=-392/1066
WEBS	6-11=-221/739, 4-11=-380/198, 3-14=-558/106, 3-13=-300/191, 6-15=-685/173

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 7-7-14, Exterior(2R) 7-7-14 to 11-10-13, Interior(1) 11-10-13 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 14 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 111 lb uplift at joint 14 and 109 lb uplift at joint 15.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021

Job

2686850

Truss

E06

Truss Type

HALF HIP

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

ID:wH4RYhEstNeUP2dXvOfi1syQY8e-ctHLgun66?qECJBL3PK3mIf3Qz9LO3TqrWAifzhJO

Lee's Summit, Missouri

03/18/2021

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

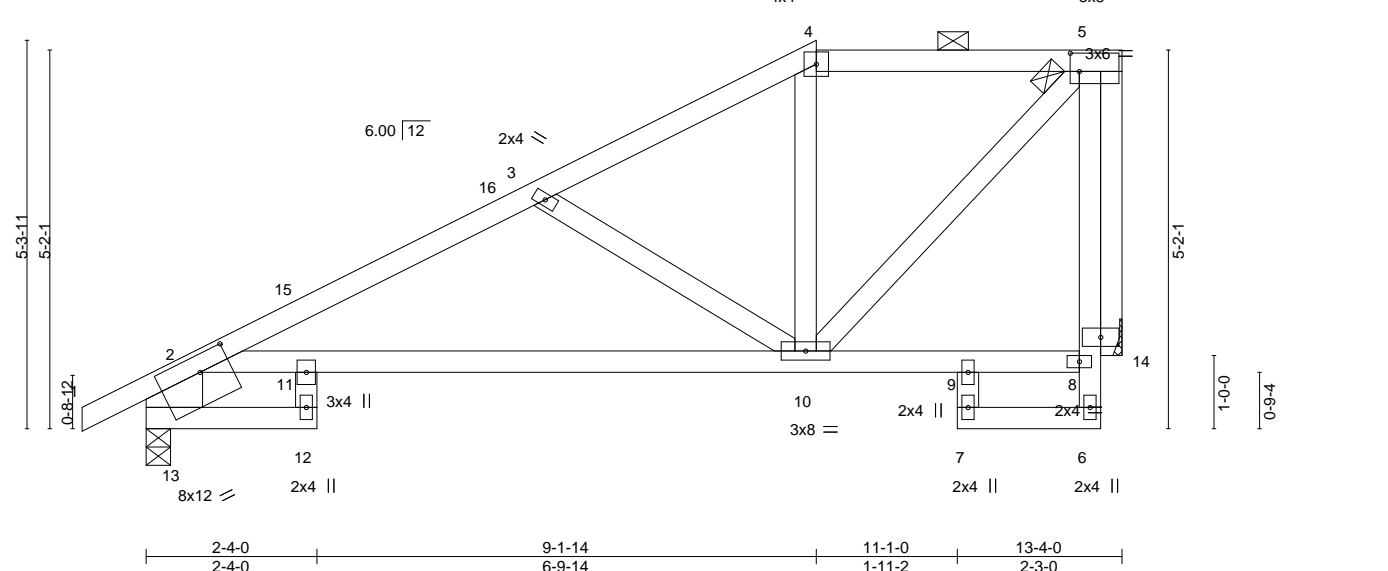


Plate Offsets (X,Y)--		[5:0-1-8,0-3-0], [13:0-5-0,0-2-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.12 10-11	>999	240
TCDL	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.29 10-11	>530	180
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.08 14	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 64 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.): 4-5.
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	2-13: 2x10 SP 2400F 2.0E		
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 13=0-4-0, 14=Mechanical
Max Horz 13=168(LC 12)
Max Uplift 13=107(LC 12), 14=105(LC 12)
Max Grav 13=827(LC 1), 14=662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1106/243, 3-4=-682/140, 4-5=-538/161, 2-13=-807/180
BOT CHORD 2-11=-222/818, 10-11=-374/946
WEBS 5-10=-204/669, 3-10=-486/232, 5-14=-666/178

- 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 9-1-14, Exterior(2E) 9-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 107 lb uplift at joint 13 and 105 lb uplift at joint 14.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26,2021

Job

2686850

Truss

E07

Truss Type

Half Hip

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #307

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976719

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976719

ID: wH4RYhEstNeUP2dXvOfi1syQY8e-43rjtEnktJy5qTIXc6sIIvIrLqN04nLc2VFjF5zhJYN

03/18/2021

0-10-8

5-5-11

10-7-14

13-4-0

0-10-8

5-5-11

5-2-3

2-8-2

6x6 =

6x6 =

Scale = 1:35.5

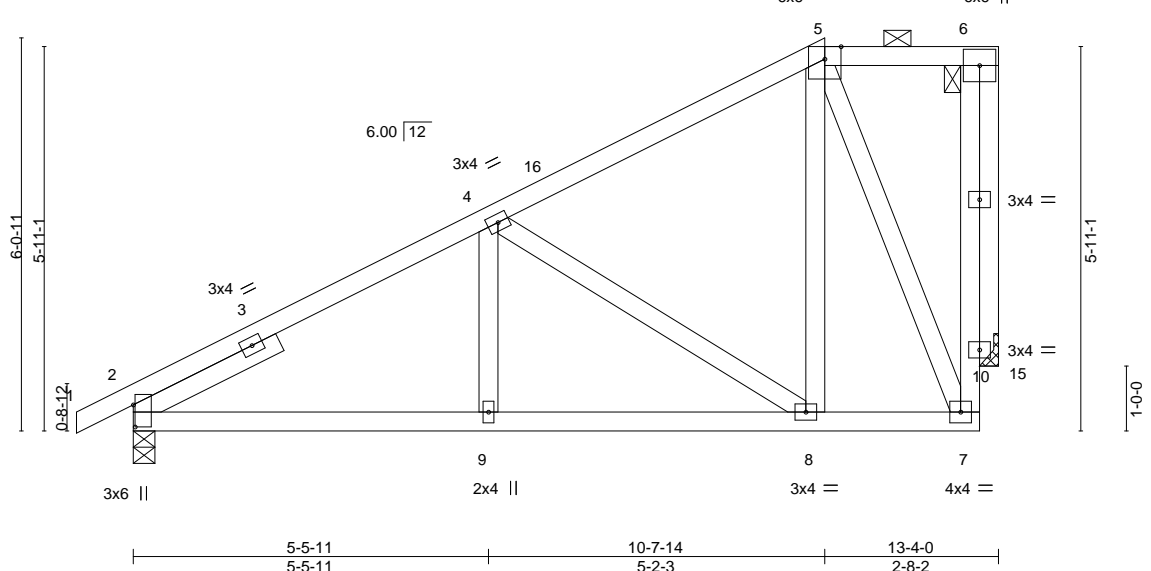


Plate Offsets (X,Y)--		[2:0-4-1,0-0-5]								
LOADING (psf)		SPACING-- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.32		Vert(LL) -0.02 8-9	>999	240	MT20	197/144
TCDL 20.0		Lumber DOL 1.15		BC 0.26		Vert(CT) -0.05 8-9	>999	180		
BCLL 0.0		Rep Stress Incr YES		WB 0.42		Horz(CT) 0.02 15	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-AS					Weight: 69 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 2x4 SPF No.2 -t 2-6-0	

REACTIONS. (size) 2=0-4-0, 15=Mechanical
Max Horz 2=212(LC 12)
Max Uplift 2=-102(LC 12), 15=-142(LC 12)
Max Grav 2=806(LC 1), 15=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-823/109, 4-5=-435/50, 7-10=-199/633, 6-10=-199/633
BOT CHORD 2-9=-279/808, 8-9=-279/808, 7-8=-107/281
WEBS 4-8=-610/202, 5-8=-66/392, 5-7=-652/212, 6-15=-692/199

- 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 10-7-14, Exterior(2E) 10-7-14 to 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 102 lb uplift at joint 2 and 142 lb uplift at joint 15.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3070
2686850	E08	Half Hip	1	1		

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. 14976720

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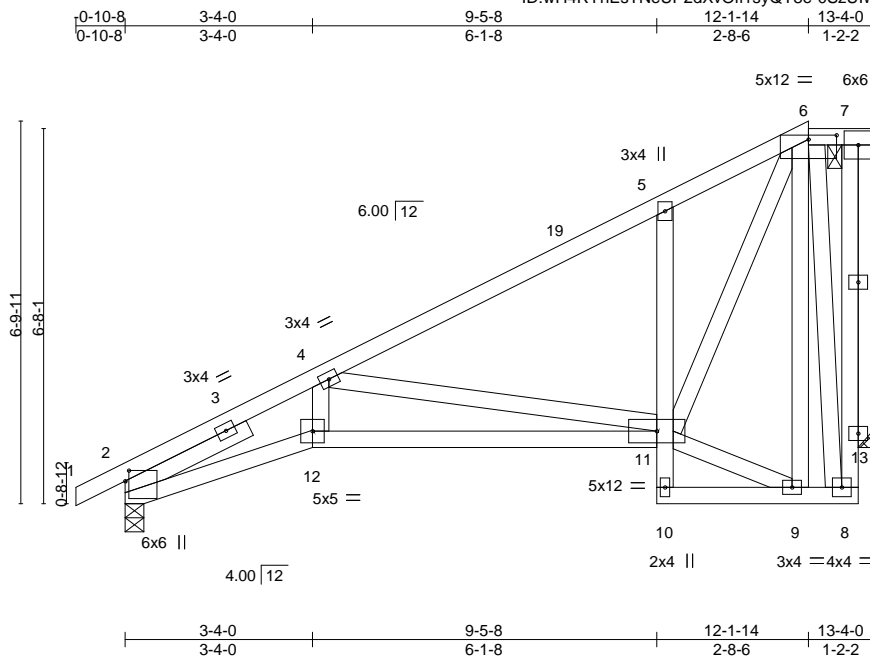


Plate Offsets (X,Y)-- [2:0-2-4,0-0-13], [6:0-6-0,0-0-15]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.07 11-12 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.19 11-12 >851	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.08 18 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 86 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 2x4 SPF No.2 - t 2-6-0

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) 2=0-4-0, 18=Mechanical
Max Horz 2=242(LC 12)
Max Uplift 2=90(LC 12), 18=-180(LC 12)
Max Grav 2=806(LC 1), 18=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1896/385, 4-5=-687/66, 5-6=-639/168, 8-13=-181/532, 7-13=-181/532
BOT CHORD 2-12=-586/1706, 11-12=-548/1575, 5-11=-495/236
WEBS 4-12=-115/519, 4-11=-1050/378, 6-11=-311/931, 6-8=-476/157, 7-18=-692/222

- 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 12-1-14, Exterior(2E) 12-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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 90 lb uplift at joint 2 and 180 lb uplift at joint 18.
 - This truss 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.



February 26, 2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2686850

Truss

E09

Truss Type

JACK-CLOSED

Qty

3

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-UeXsWGpdAEKfhwU6IEP?w8wlK1J2H8V2ITUNrQzhJYK

0-10-8

3-4-0

9-5-8

13-4-0

0-10-8

3-4-0

6-1-8

3-10-8

Scale = 1:39.1

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

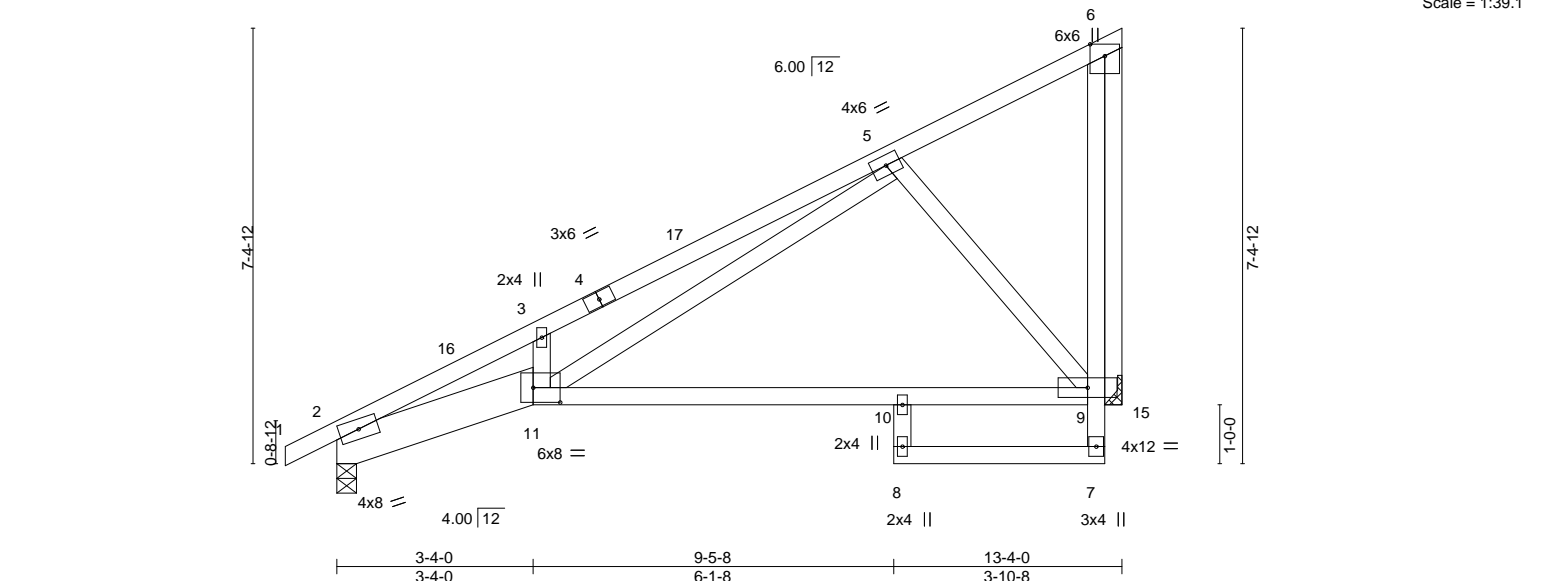


Plate Offsets (X,Y)--		[11:0-5-8,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	in (loc)	l/defl	L/d		MT20	GRIP
TCDL	20.0	Lumber DOL	1.15	BC	0.62	Vert(LL)	-0.22 10-11	>720	240		197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Vert(CT)	-0.51 10-11	>313	180		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.07 15	n/a	n/a		
										Weight: 74 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.
	2-11: 2x8 SP 2400F 2.0E		
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. (size) 2=0-4-0, 15=Mechanical
Max Horz 2=223(LC 12)
Max Uplift 2=-76(LC 12), 15=-121(LC 12)
Max Grav 2=806(LC 1), 15=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2039/260, 3-5=-2146/385, 6-9=-134/625
BOT CHORD 2-11=-460/1821, 10-11=-167/506, 9-10=-169/487
WEBS 3-11=-393/181, 5-9=-693/224, 5-11=-366/1596, 6-15=-692/167

- 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 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 76 lb uplift at joint 2 and 121 lb uplift at joint 15.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26,2021

Job

2686850

Truss

E10

Truss Type

JACK-CLOSED

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #3070

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021

MiTek Industries, Inc.

Lee's Summit, Missouri

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-R1fckyqtiraNwEeVPiRT?Z?gKr_glyeLCnzUwJzhJYI

03/18/2021

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/18/2021

Scale = 1:39.1

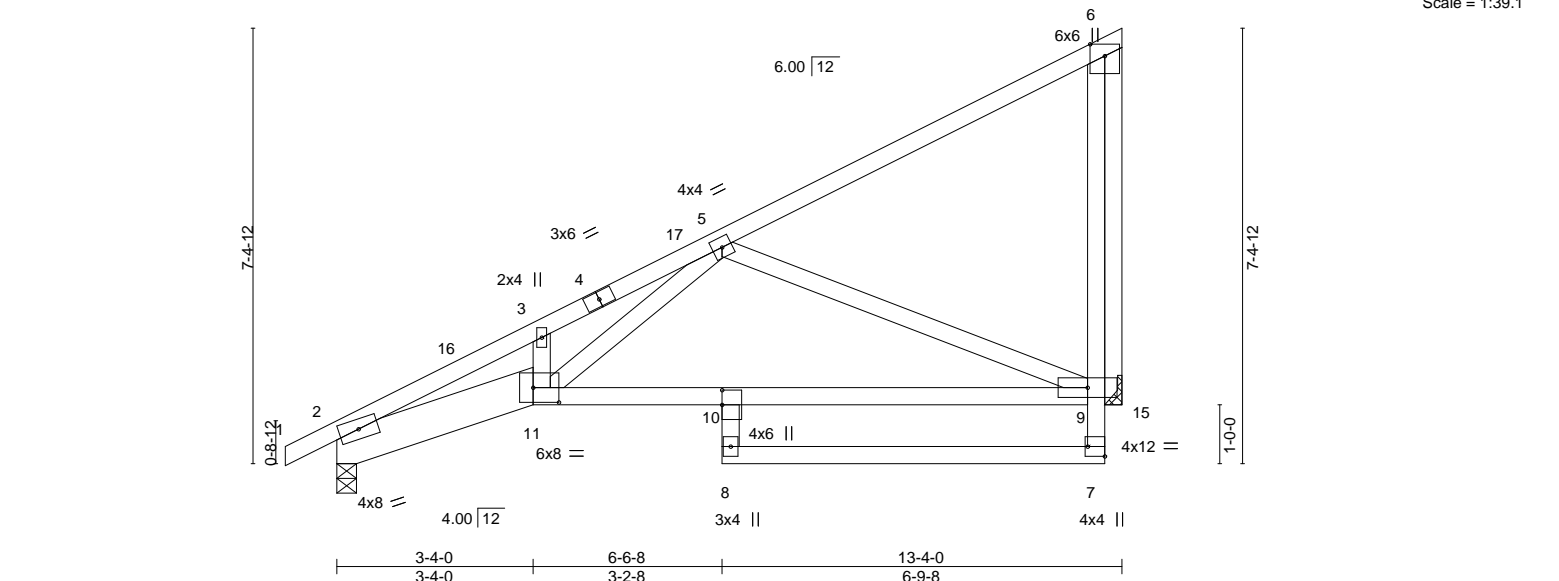


Plate Offsets (X, Y)--		[7:Edge,0-3-8], [10:0-3-0,0-0-0], [11:0-5-4,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50
TCDL 20.0	Lumber DOL	1.15	BC 0.67
BCLL 0.0	Rep Stress Incr	YES	WB 0.80
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.11 8 >999 240
			Vert(CT) -0.26 10 >599 180
			Horz(CT) 0.05 15 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 76 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.
2-11: 2x8 SP 2400F 2.0E	
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 2=0-4-0, 15=Mechanical
Max Horz 2=223(LC 12)
Max Uplift 2=-76(LC 12), 15=-121(LC 12)
Max Grav 2=806(LC 1), 15=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1924/224, 3-5=-1842/274, 6-9=-76/459
BOT CHORD 2-11=-421/1693, 10-11=-292/922, 9-10=-328/791
WEBS 5-11=-181/968, 5-9=-938/278, 6-15=-692/167

- 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 12-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 76 lb uplift at joint 2 and 121 lb uplift at joint 15.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26, 2021

Job

2686850

Truss

E11

Truss Type

Jack-Closed

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. H-16-108-150-0-1

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-vDC_8lrVT9iEYODhzNziYmYqVFPcUP1VRRi1SlzhJYH

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Scale = 1:40.6

Plate Offsets (X,Y)--		[2:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53
TCDL 20.0	Lumber DOL	1.15	BC 0.37
BCLL 0.0	Rep Stress Incr	YES	WB 0.79
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.04 9-10 >999 240
			Vert(CT) -0.07 9-10 >999 180
			Horz(CT) 0.02 9 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 56 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	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 2-6-0	

REACTIONS.	(size) 2=0-4-0, 9=Mechanical
	Max Horz 2=295(LC 11)
	Max Uplift 2=-99(LC 12), 9=-108(LC 9)
	Max Grav 2=800(LC 1), 9=732(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-718/171
BOT CHORD	2-10=-303/740, 9-10=-303/740
WEBS	4-10=0/284, 4-9=-830/252

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 13-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 99 lb uplift at joint 2 and 108 lb uplift at joint 9.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

February 26,2021

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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 2686850	Truss E12	Truss Type Half Hip	Qty 1	Ply 1	SUMMIT/WOODS	DE RIDGE #3070
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14976724			
ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-NPmNLes7ETq5AYotX4Ux4_4?tfllhDraef5Sb_BzhJYG			Job Reference (optional)			
0-10-8 0-10-8			6-7-12 6-7-12		13-0-0 6-4-4	
6x12 MT20HS			Scale = 1:41.5			

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

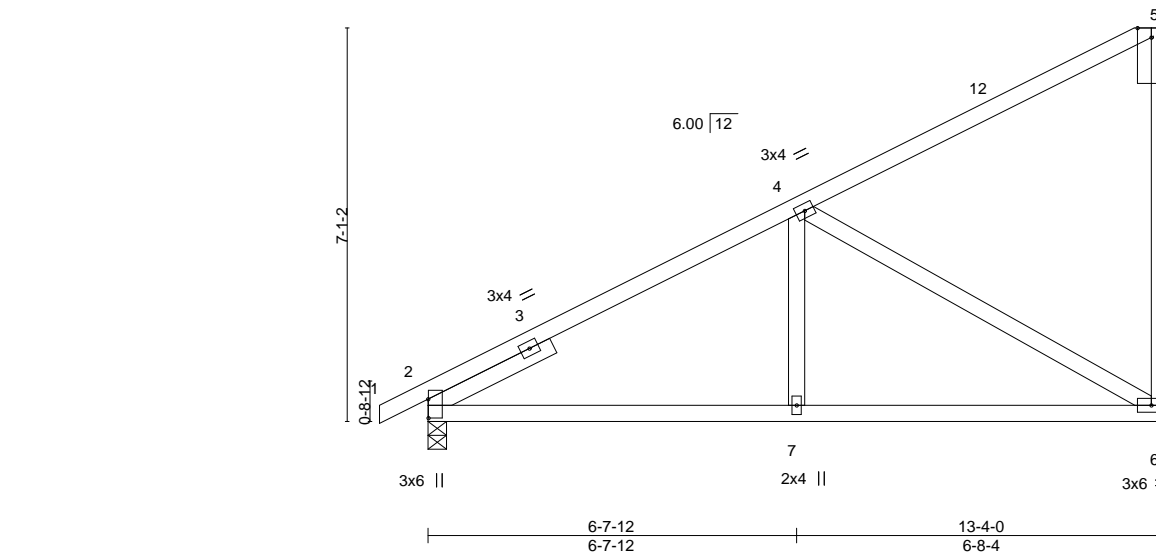


Plate Offsets (X,Y)--		[2:0-4-1,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.56
TCDL 20.0	Lumber DOL	1.15	BC 0.38
BCLL 0.0	Rep Stress Incr	YES	WB 0.83
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.05 6-7 >999 240
			Vert(CT) -0.09 6-7 >999 180
			Horz(CT) 0.02 6 n/a n/a
			PLATES GRIP
			MT20 197/144
			MT20HS 148/108
			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 2x4 SPF No.2 -t 2-6-0

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

REACTIONS. (size) 2=0-4-0, 6=Mechanical
Max Horz 2=295(LC 11)
Max Uplift 2=116(LC 12), 6=173(LC 12)
Max Grav 2=807(LC 1), 6=723(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-736/174
BOT CHORD 2-7=-296/758, 6-7=-296/758
WEBS 4-7=0/289, 4-6=-848/258

- 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 13-2-4 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) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 173 lb uplift at joint 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26, 2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3070
2686850	E13	Half Hip	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						8.430 s Feb 12 2021 MiTek Industries, Inc. 14976725
Job Reference (optional)						Lee's Summit, Missouri

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LEE'S SUMMIT, MISSOURI
03/18/2021

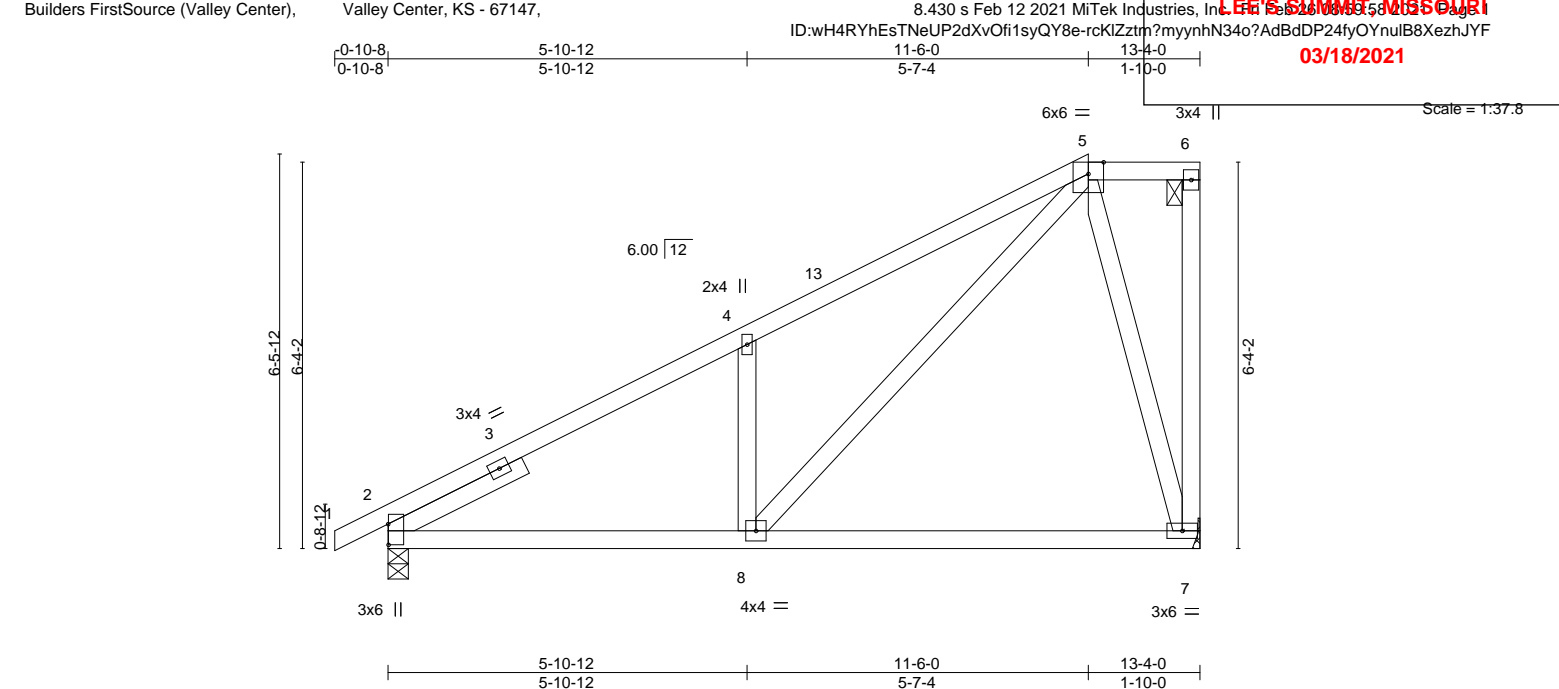


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.08	7-8	>999
TCDL 20.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.16	7-8	>990
BCLL 0.0	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.01	7	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 62 lb		FT = 20%	

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

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) 7=Mechanical, 2=0-4-0
Max Horz 2=254(LC 11)
Max Uplift 7=135(LC 12), 2=124(LC 12)
Max Grav 7=723(LC 1), 2=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-799/177, 4-5=-1003/298
BOT CHORD 2-8=-327/794
WEBS 4-8=-509/247, 5-7=-677/355, 5-8=-263/895

- 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 11-6-0, Exterior(2E) 11-6-0 to 13-2-4 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 135 lb uplift at joint 7 and 124 lb uplift at joint 2.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2686850

Truss

E14

Truss Type

Half Hip

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Lee's Summit, Missouri

0-10-8

5-1-12

10-0-0

13-4-0

0-10-8

5-1-12

4-10-4

3-4-0

0-10-8

5-1-12

4-10-4

3-4-0

4x6 =

4x4 =

Scale = 1:33.7

5-8-12

5-7-2

6.00

12

2x4 =

13

4

3x4 =

3

2

4x8 ||

5

6

8

7

4x8 =

2x4 ||

10-0-0

10-0-0

13-4-0

3-4-0

Plate Offsets (X,Y)--

[2:0-4-13,Edge]

LOADING (psf)

TCLL 25.0

TCDL 20.0

BCLL 0.0

BCDL 10.0

SPACING-

2x4 DOL 2-0-0

Plate Grip DOL 1.15

Lumber DOL 1.15

Rep Stress Incr YES

Code IRC2018/TPI2014

CSI.

TC 0.32

BC 0.58

WB 0.27

Matrix-AS

DEFL.

in (loc)

l/defl

L/d

Vert(LL) -0.15 8-11 >999 240

Vert(CT) -0.32 8-11 >500 180

Horz(CT) 0.02 2 n/a n/a

PLATES

MT20

GRIP

197/144

Weight: 60 lb

FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0

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) 7=Mechanical, 2=0-4-0

Max Horz 2=223(LC 11)

Max Uplift 7=-118(LC 9), 2=-126(LC 12)

Max Grav 7=723(LC 25), 2=807(LC 25)

FORCES.

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

TOP CHORD 2-4=-874/211, 4-5=-526/144, 5-6=-384/161, 6-7=-724/245

BOT CHORD 2-8=-372/800

WEBS 4-8=-493/213, 6-8=-247/711

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 10-0-0, Exterior(2E) 10-0-0 to 13-2-4 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 118 lb uplift at joint 7 and 126 lb uplift at joint 2.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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

February 26,2021

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

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

MiTek®

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job

2686850

Truss

G01

Truss Type

Hip Girder

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, MO 64080

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee's Summit, MO 64080

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-n_SV_fucXODg1?WSD1eiciOlsefQI04M3gFbWzhJYD

-0-10-8

2-9-0

7-11-8

13-2-0

15-7-0

0-10-8

2-9-0

5-2-8

5-2-8

2-5-0

0-8-12

1-11-10

0-10-12

1-11-10

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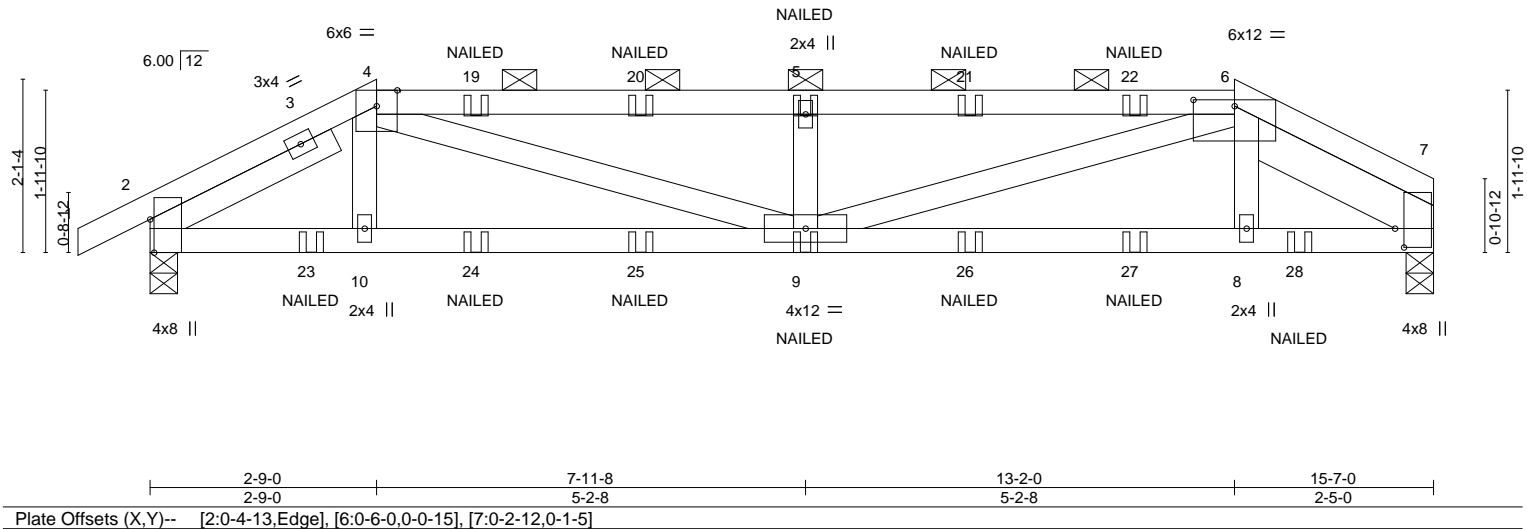
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.10	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.23				
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.03				
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS							
								Weight: 62 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins, except 2-0-0 oc purlins (2-1-2 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 9-5-3 oc bracing.

REACTIONS. (size) 7=0-4-0, 2=0-4-0
Max Horz 2=41(LC 29)
Max Uplift 7=-281(LC 9), 2=-297(LC 8)
Max Grav 7=1299(LC 1), 2=1364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1996/446, 4-5=-3171/719, 5-6=-3171/719, 6-7=-253/93
BOT CHORD 2-10=-386/1767, 9-10=-386/1751, 8-9=-336/1628, 7-8=-336/1647
WEBS 4-10=-1/255, 4-9=-372/1530, 5-9=-769/261, 6-9=-397/1654, 6-8=-4/285

- 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 281 lb uplift at joint 7 and 297 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-7=-90, 11-15=-20

Concentrated Loads (lb)

Vert: 9=-41(F) 5=-57(F) 19=-57(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=-191(F) 24=-41(F) 25=-41(F) 26=-41(F) 27=-41(F) 28=-191(F)



February 26, 2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODS	DE RIDGE #3070
2686850	H01	HIP GIRDER	1	1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14976728			
			Job Reference (optional)			
			ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-FB0tB7vdlhLXe95emwYtFqFmEG6Q9roEajQo7yzhJYC			
			Lee's Summit, Missouri			
			6/18/2021			
			Scale = 1:17.4			

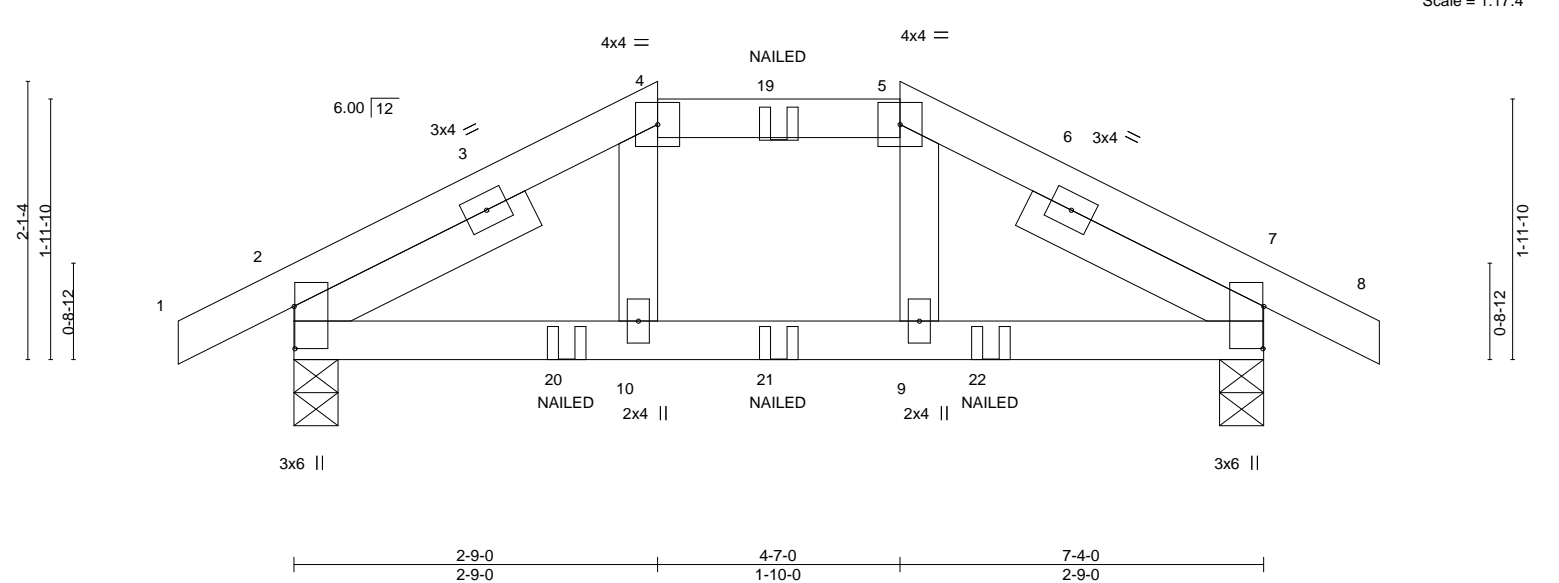


Plate Offsets (X,Y)--		[2:0-3-13,0-0-1], [7:0-3-13,0-0-1]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15
TCDL 20.0	Lumber DOL	1.15	BC 0.33
BCLL 0.0	Rep Stress Incr	NO	WB 0.05
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 9 >999 240
			Vert(CT) -0.02 9 >999 180
			Horz(CT) 0.01 7 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 28 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SPF No.2 -t 2-0-0, Right 2x4 SPF No.2 -t 2-0-0	

REACTIONS.	(size) 2=0-4-0, 7=0-4-0
	Max Horz 2=31(LC 33)
	Max Uplift 2=-156(LC 8), 7=-156(LC 9)
	Max Grav 2=723(LC 1), 7=723(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-807/191, 4-5=-692/171, 5-7=-807/191
BOT CHORD	2-10=-134/707, 9-10=-133/692, 7-9=-137/707

- 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 156 lb uplift at joint 2 and 156 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
Vert:	1-4=-90, 4-5=-90, 5-8=-90, 11-15=-20
Concentrated Loads (lb)	
Vert:	19=-57(F) 20=-192(F) 21=-41(F) 22=-192(F)



February 26, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2686850	Truss H02	Truss Type COMMON	Qty 4	Ply 1	SUMMIT/WOODSIDE RIDGE #3070
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. L-14-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229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Job

2686850

Truss

J01

Truss Type

JACK-OPEN

Qty

5

Ply

1

SUMMIT/WOODSIDE RIDGE #30700

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Lee's Summit, Missouri

Page 1

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-kNaGPLwG2TOGJgrJd36n1oywgXFulrNpN9MgPzhJYB

03/18/2021

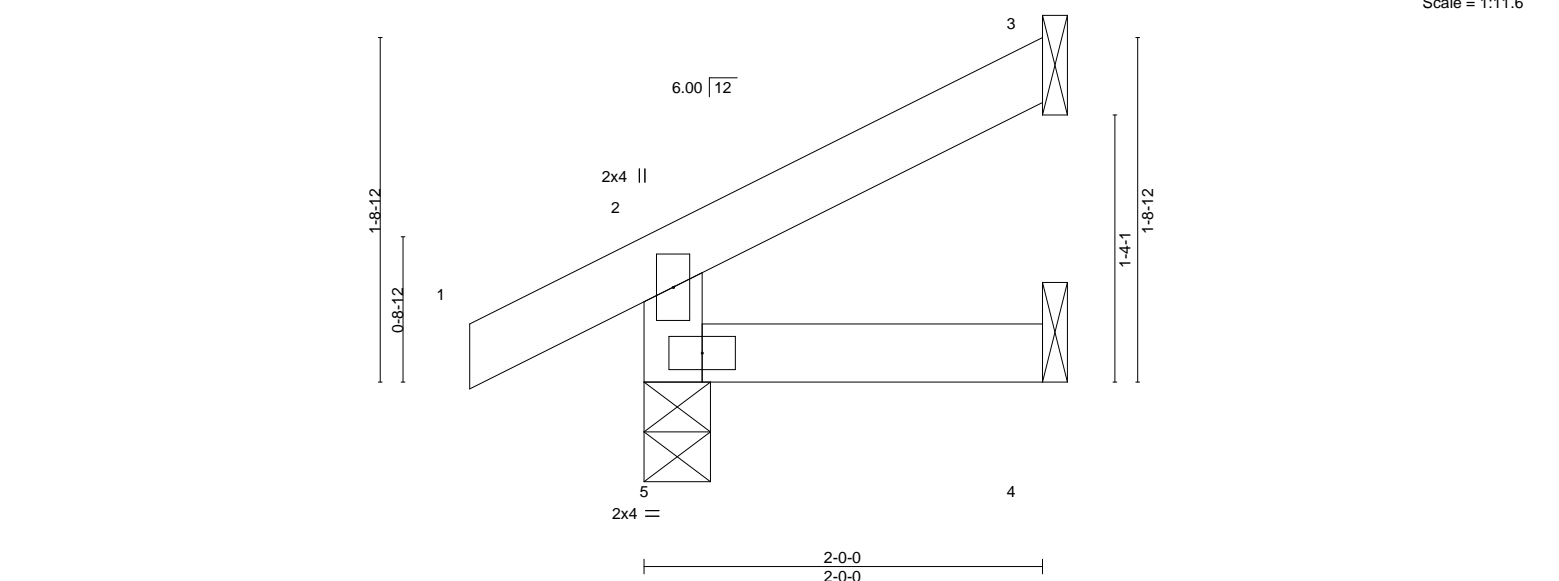
0-10-8

0-10-8

2-0-0

2-0-0

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 0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR							
									Weight: 6 lb	FT = 20%

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

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=48(LC 12)
Max Uplift 5=28(LC 12), 3=33(LC 12)
Max Grav 5=219(LC 1), 3=61(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) 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 28 lb uplift at joint 5 and 33 lb uplift at joint 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26, 2021

Job

2686850

Truss

J01A

Truss Type

Jack-Open

Qty

1

Ply

1

SUMMIT/WOODS

IDE RIDGE #30705

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. L-14976731

Builders FirstSource (Valley Center),

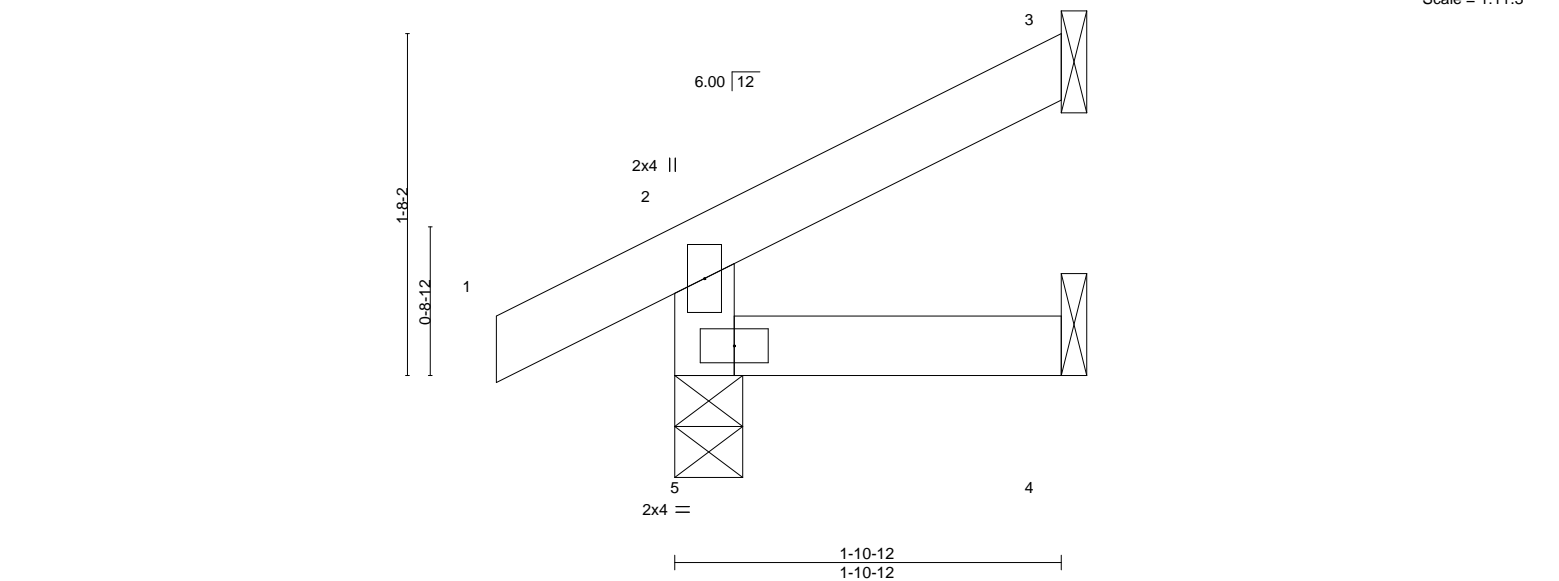
Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-CZ7echxupJbFuTF1tLbLKFK7g3tYdl5W21vvCrzhJYA

Lee's Summit, Missouri

03/18/2021

Scale = 1:11.3



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

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-12 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=46(LC 12)
Max Uplift 5=28(LC 12), 3=31(LC 12)
Max Grav 5=214(LC 1), 3=56(LC 1), 4=31(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) 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 28 lb uplift at joint 5 and 31 lb uplift at joint 3.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26, 2021

Job

2686850

Truss

J02

Truss Type

Jack-Open

Qty

6

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

8.430 s Feb 12 2021 MiTek Industries, Inc.

Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

J4976732

14976732

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-gmh0p1xXacj6VcqDR26atSiGQTDVMCKgGgeSkHzhJY9

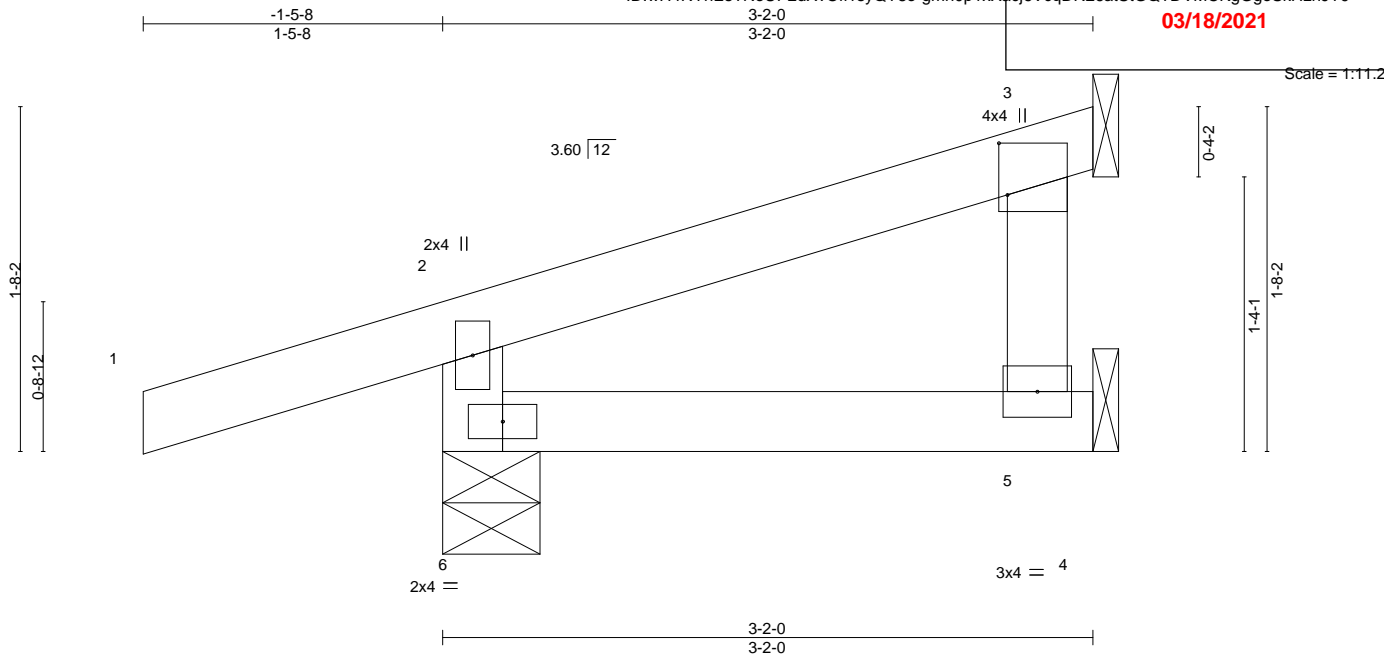


Plate Offsets (X,Y)--		[3:0-3-0,0-0-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22
TCDL 20.0	Lumber DOL	1.15	BC 0.05
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 5-6 >999 240
			Vert(CT) -0.00 5-6 >999 180
			Horz(CT) 0.00 3 n/a n/a
			PLATES MT20 GRIP 197/144
			Weight: 11 lb FT = 20%

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

REACTIONS. (size) 6=0-5-11, 5=Mechanical, 3=Mechanical
Max Horz 6=52(LC 8)
Max Uplift 6=104(LC 8), 3=36(LC 12)
Max Grav 6=337(LC 1), 5=59(LC 3), 3=89(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=303/239

- 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 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) 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 6 and 36 lb uplift at joint 3.
 - 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



February 26,2021

Job: 2686850

Truss: J02A

Truss Type: Jack-Open

Qty: 2

Ply: 1

Job Reference (optional):

Summit/Woods Ridge #3070

8.430 s Feb 12 2021 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-8yFO1Ny9Lwry7mPQ?mdpPgQRAtYg5fapVK00HkzhJY8

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

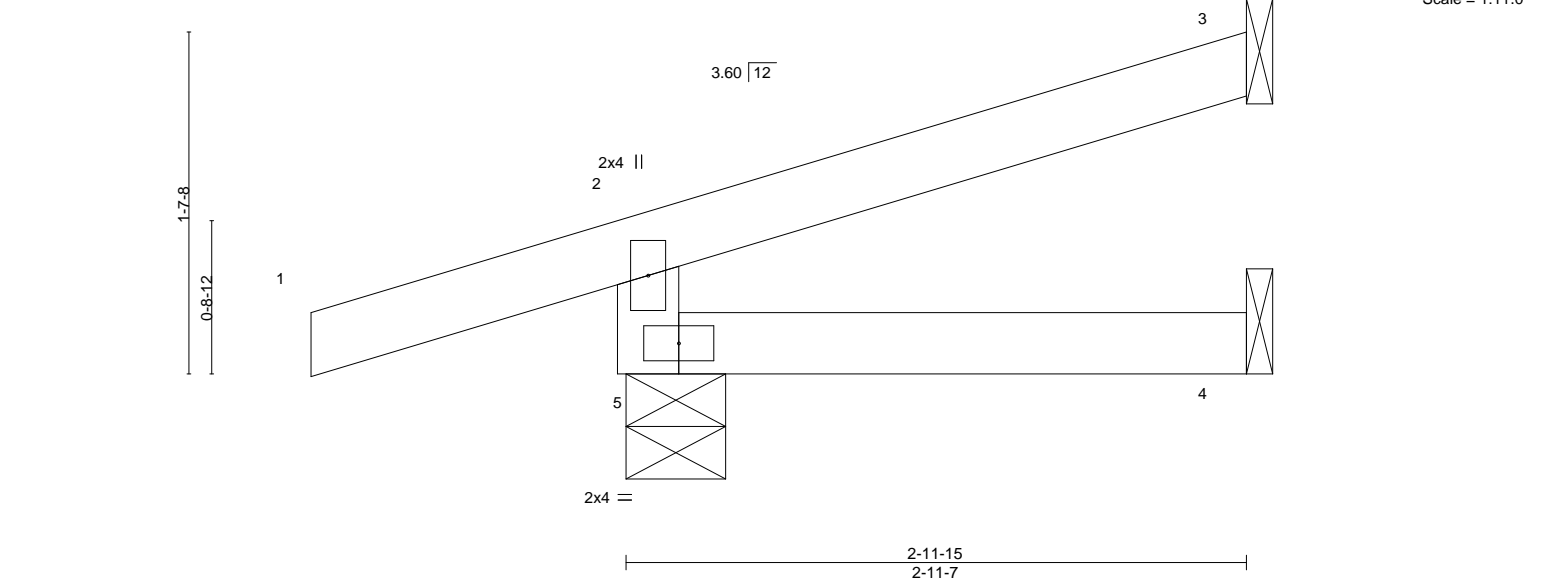
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Scale = 1:11.0

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



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)	-0.00	4-5	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=0-5-11, 3=Mechanical, 4=Mechanical
Max Horz 5=52(LC 8)
Max Uplift 5=103(LC 8), 3=36(LC 12)
Max Grav 5=339(LC 1), 3=91(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-304/240

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5 and 36 lb uplift at joint 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26,2021

Job: 2686850

Truss: J02B

Truss Type: Jack-Open Girder

Qty: 1

Ply: 1

SUMMIT/WOODS

DE RIDGE #3071

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

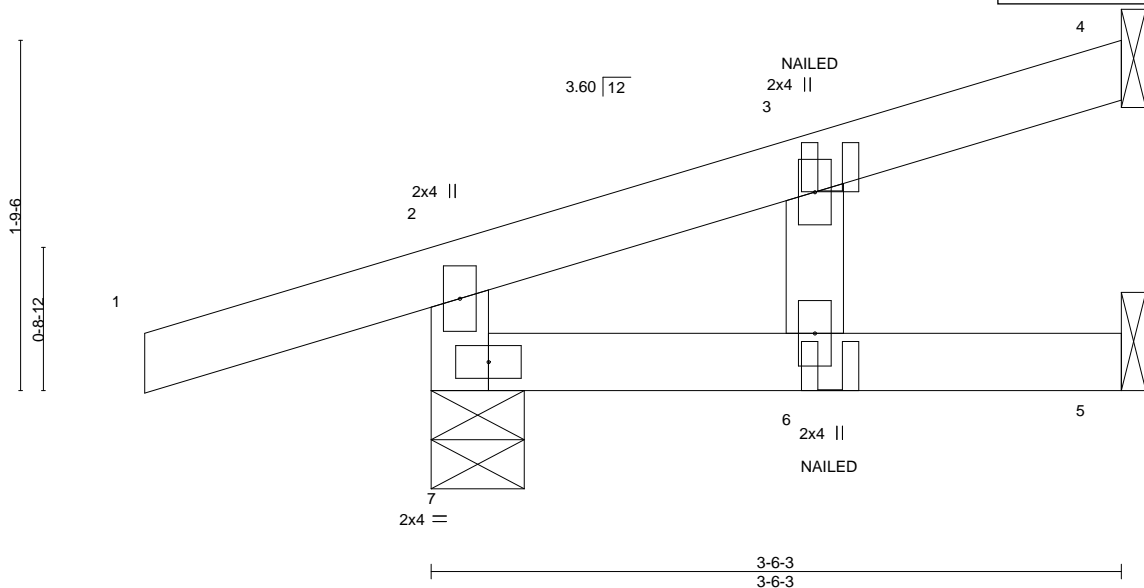
03/18/2021

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

8.430 s Feb 12 2021 MiTek Industries, Inc. Session ID: 14976734

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-c8pmEizn6Ezplw_cYT82ytycOHtyq6jzk_7ZpAzhJY7

Scale = 1:11.7



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 0.25	Vert(LL)	0.01	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	6	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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 3-6-3 oc purlins, except end verticals.

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

REACTIONS. (size) 7=0-5-11, 4=Mechanical, 5=Mechanical

Max Horz 7=59(LC 4)

Max Uplift 7=-107(LC 4), 4=-32(LC 8), 5=-8(LC 8)

Max Grav 7=361(LC 1), 4=95(LC 1), 5=58(LC 3)

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

TOP CHORD 2-7=-294/105

- 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.
 - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 7, 32 lb uplift at joint 4 and 8 lb uplift at joint 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.
 - "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: 1-2=-90, 2-4=-90, 5-7=-20



February 26,2021

Job: 2686850

Truss: J03

Truss Type: Half Hip Girder

Qty: 6

Ply: 1

SUMMIT/WOODS DE RIDGE #3070

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

8.430 s Feb 12 2021 MiTek Industries, Inc.

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-4KN9S2_PtX5gN4Zo6BfH5Vn1hAMZZI6zet7LczhJY6

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Scale = 1:11.4

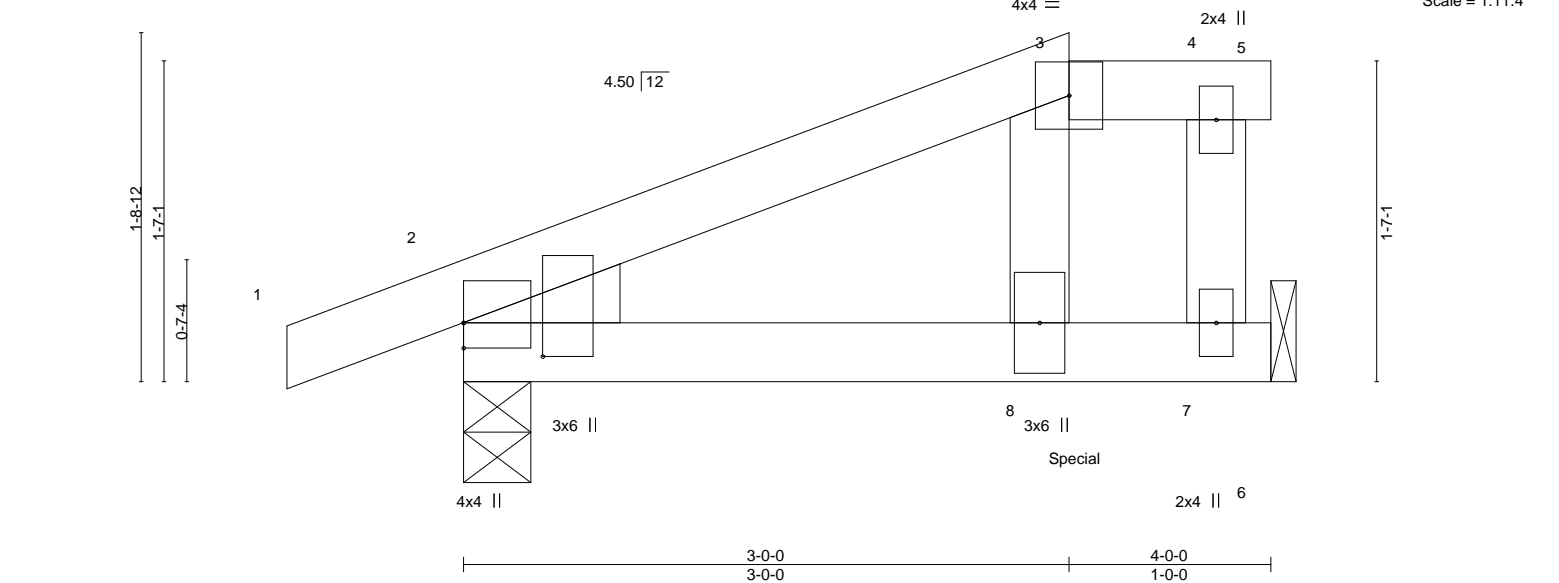


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	8-11	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.04	8-11	>999	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 14 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS.	
(size)	2=0-4-0, 7=Mechanical
Max Horz	2=55(LC 4)
Max Uplift	2=67(LC 4), 7=50(LC 4)
Max Grav	2=292(LC 1), 7=212(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2 and 50 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 78 lb up at 3-0-0 on top chord, and 31 lb down and 7 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
Vert:	1-3=-90, 3-4=-90, 4-5=-40, 6-9=-20
Concentrated Loads (lb)	
Vert:	8=1(B)



February 26,2021

Job
2686850

Truss
J03A

Truss Type
Half Hip Girder

Qty
2

Ply
1

SUMMIT/WOODS
DE RIDGE #3070

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

8.430 s Feb 12 2021 MiTek Industries, Inc.
ID:wH4RYhEsTNeUP2dXvOf1syQY8e-4KN9S2_PtX5gN4Zo6BfHU5VoAAZZI6zet7LczhJY6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

J44976736

Scale = 1:11.1

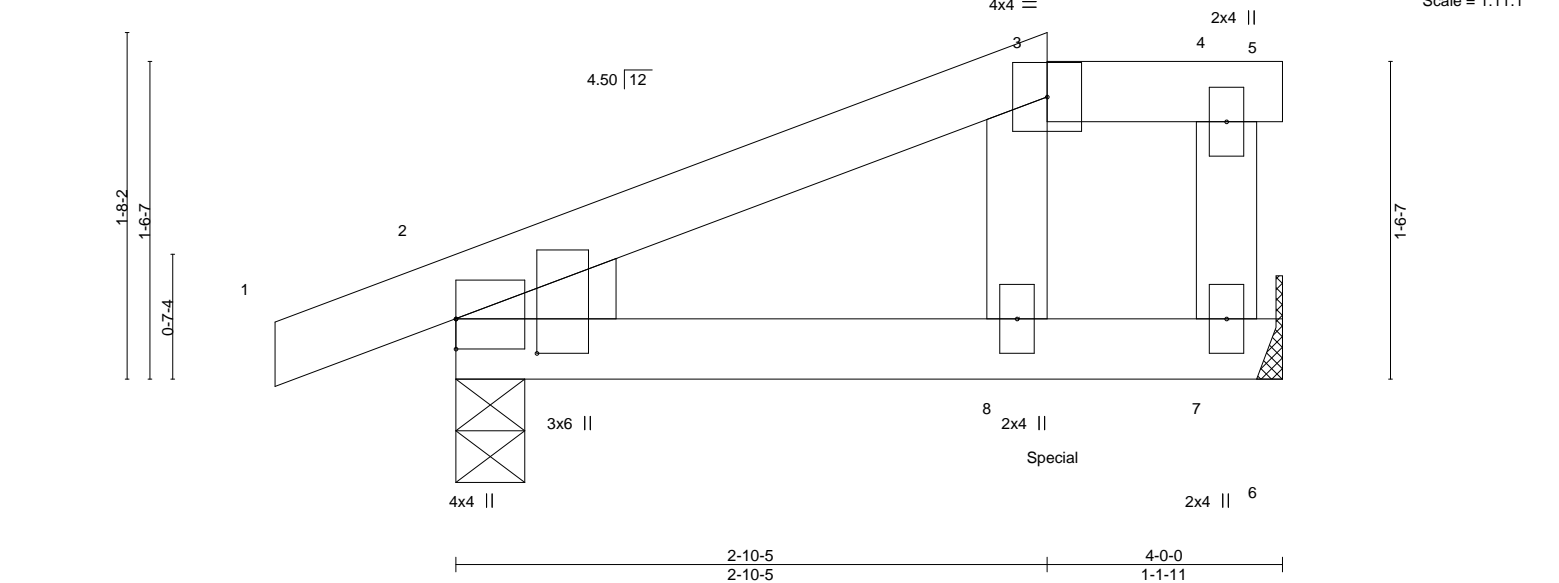


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.02	8-11	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.04	8-11	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 14 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS. (size) 7=Mechanical, 2=0-4-0
Max Horz 2=57(LC 7)
Max Uplift 7=47(LC 5), 2=72(LC 4)
Max Grav 7=211(LC 1), 2=292(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 7 and 72 lb uplift at joint 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 77 lb up at 2-10-5 on top chord, and 23 lb down and 7 lb up at 2-10-5 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

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 4-5=-40, 6-9=-20

Concentrated Loads (lb)

Vert: 8=3(B)



February 26,2021

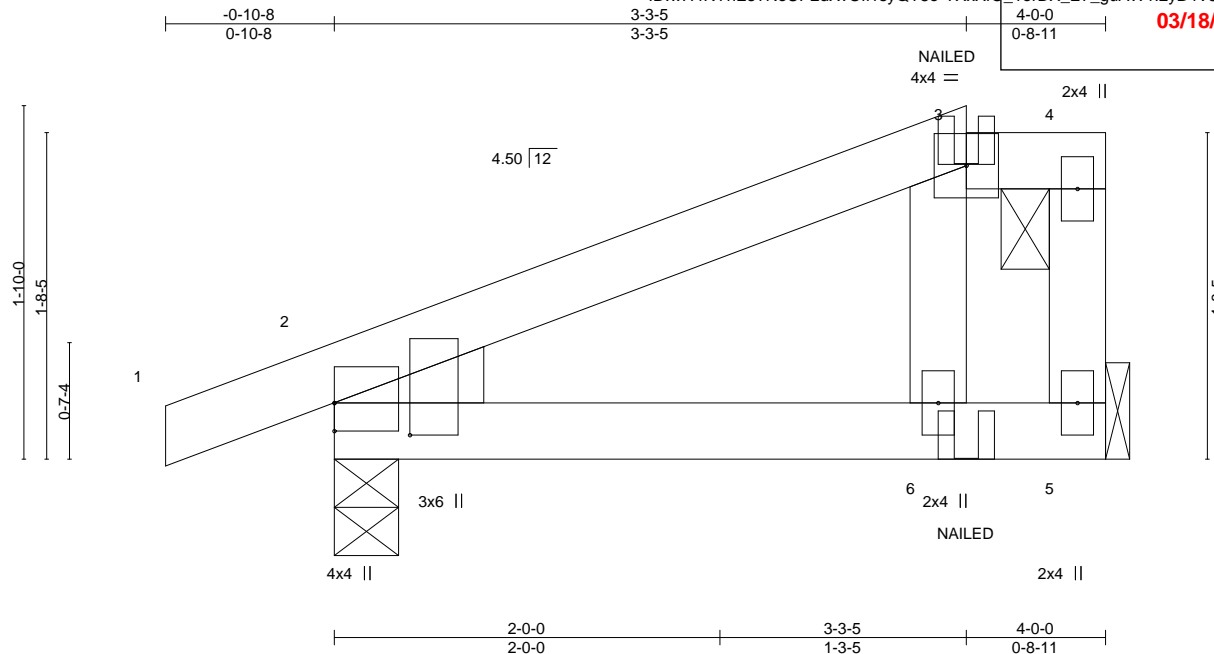


Plate Offsets (X,Y)-- [2-0-2-0-0-4-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.02	6-9	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 14 lb	FT = 20%

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

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

REACTIONS. (size) 5=Mechanical, 2=0-4-0
Max Horz 2=64(LC 7)
Max Uplift 5=-54(LC 5), 2=-73(LC 4)
Max Grav 5=230(LC 1), 2=306(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5 and 73 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-3(F) 6=-29(F)



February 26, 2021



WARNING: - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MM1/473 (rev. 3/19/2020) 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 2686850	Truss J04	Truss Type JACK-OPEN	Qty 18	Ply 1	SUMMIT/WOODS DE RIDGE #3070	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/18/2021
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.430 s Feb 12 2021 MiTek Industries, Inc.		ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-0jVvtk?fp9LOcOiBEchlaWa7_UtP1TaPQyMDQVzhJY4 Scale = 1:13.3

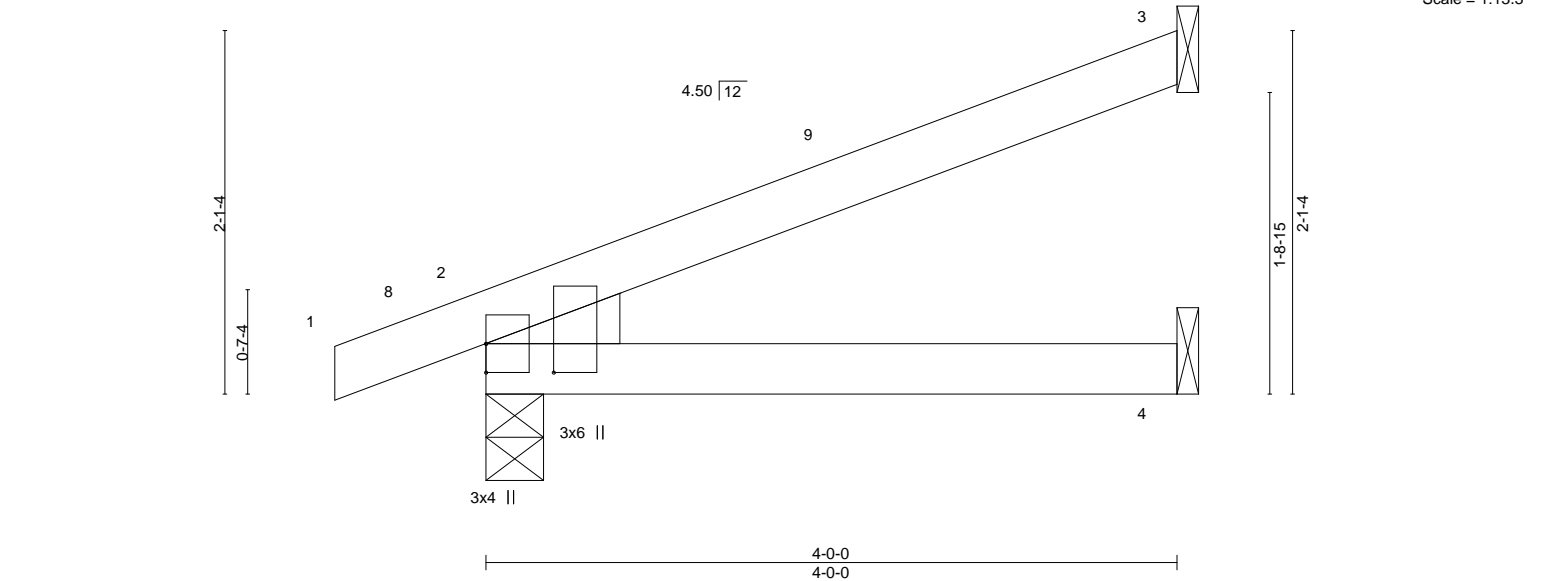


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]				
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.02 4-7 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.03 4-7 >999 180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 12 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
 Max Horz 2=74(LC 8)
 Max Uplift 3=53(LC 12), 2=59(LC 8), 4=1(LC 12)
 Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

NOTES-
 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) Refer to girder(s) for truss to truss connections.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 59 lb uplift at joint 2 and 1 lb uplift at joint 4.
 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26, 2021

Job: 2686850

Truss: J10

Truss Type: JACK-OPEN

Qty: 4

Ply: 1

Job Reference (optional):

Summit/Woodsridge #30711

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee Summit, MO 64063

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-0jVvtk?fp9LOcOiBchlaWa5DUt?1TaPQyMDQVzhJY4

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE SUMMIT, MISSOURI

03/18/2021

Scale = 1:13.3

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

8.430 s Feb 12 2021 MiTek Industries, Inc. Lee Summit, MO 64063

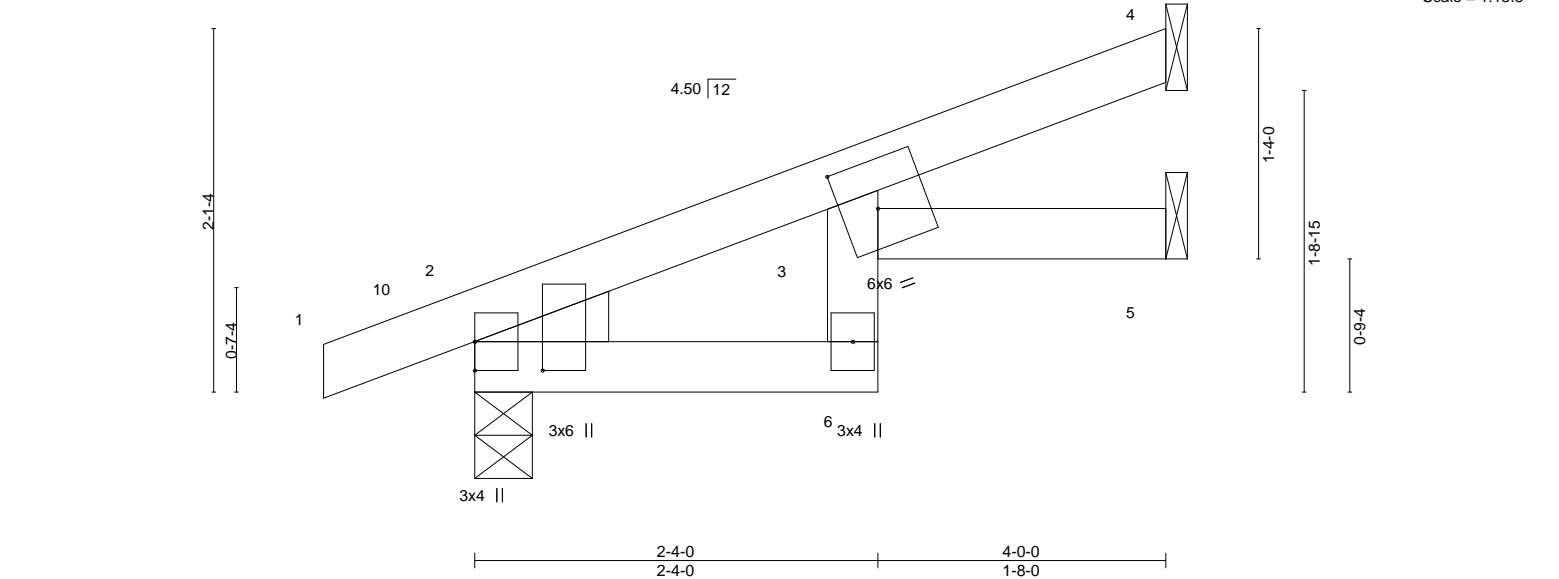


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11], [3:0-2-8,0-3-5]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.34	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.22	Vert(LL) 0.03 6 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.05 6 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.03 5 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 13 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) 4=Mechanical, 2=0-4-0, 5=Mechanical

Max Horz 2=74(LC 8)

Max Uplift 4=-42(LC 12), 2=-58(LC 8), 5=-12(LC 12)

Max Grav 4=128(LC 1), 2=305(LC 1), 5=81(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4, 58 lb uplift at joint 2 and 12 lb uplift at joint 5.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26, 2021

Job 2686850	Truss J11	Truss Type Jack-Open	Qty 5	Ply 1	SUMMIT/WOODS	DE RIDGE #3070
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. Lee Summit, MO 64061			
ID: wH4RYhEsTNeUP2dXvOf1syQY8e-Vv3H440HASTFEXHNnJD_6j7lkuDemwqYfc5nyxzhJY3			Job Reference (optional)			
-0-10-8 0-10-8			4-0-0 4-0-0			
			03/18/2021			
			Scale = 1:13.3			

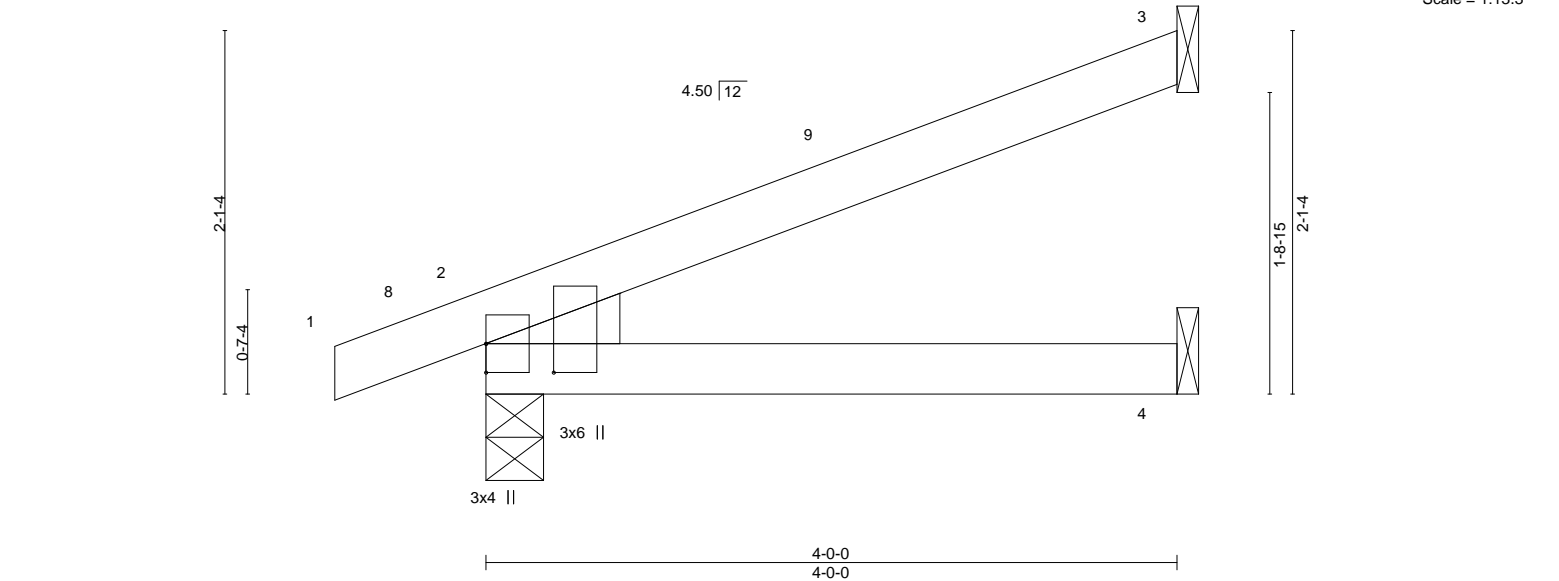


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]				
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.02 4-7 >999 240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.03 4-7 >999 180		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=74(LC 8)
Max Uplift 3=-53(LC 12), 2=-59(LC 8), 4=-1(LC 12)
Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 59 lb uplift at joint 2 and 1 lb uplift at joint 4.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 26, 2021

Job

2686850

Truss

J12

Truss Type

Jack-Open

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

8.430 s Feb 12 2021 MiTek Industries, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

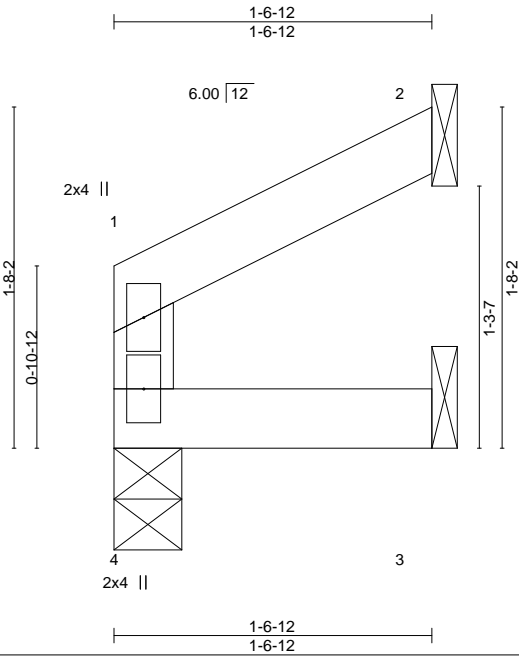
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Page 1

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

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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 0.04	Vert(LL)	-0.00	4	>999	240	MT20	197/144
BCDL 20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 4 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size)	4=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz	4=32(LC 9)	
Max Uplift	2=-30(LC 12), 3=-2(LC 12)	
Max Grav	4=77(LC 1), 2=59(LC 1), 3=28(LC 3)	

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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 30 lb uplift at joint 2 and 2 lb uplift at joint 3.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26,2021

Job

2686850

Truss

J13

Truss Type

Jack-Open

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #3071

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

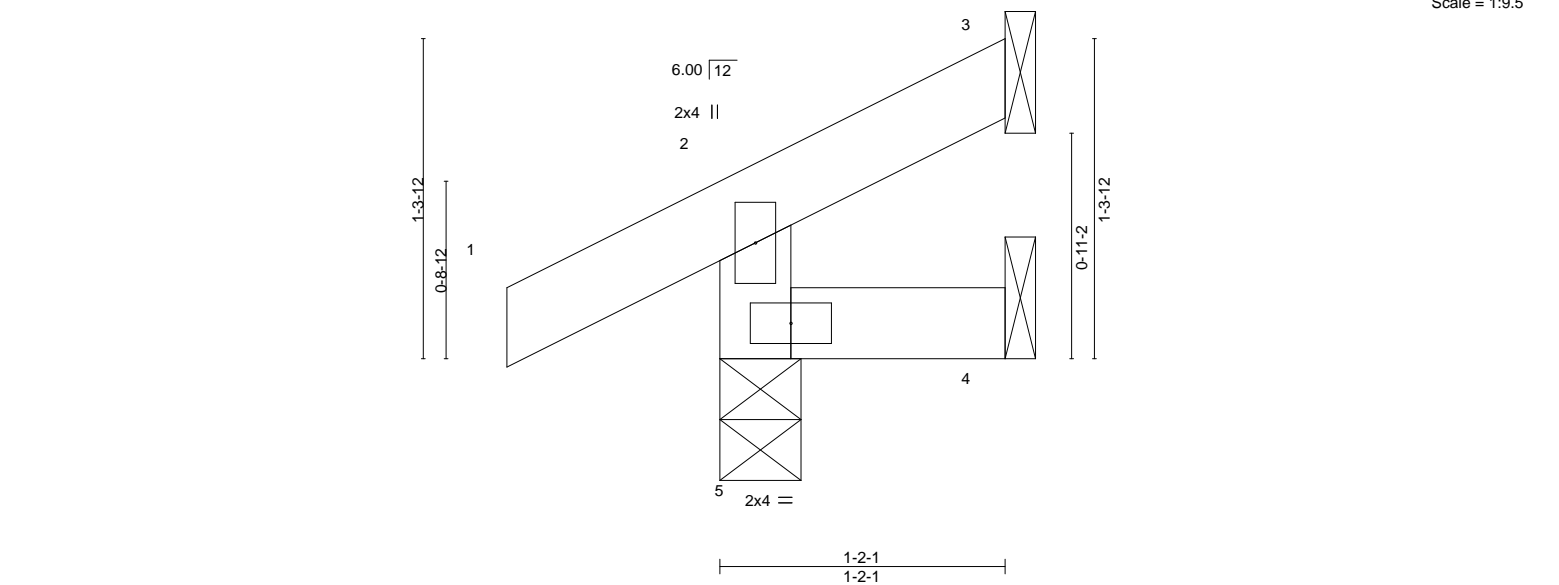
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-z6cf1Q1wxmb6rhzL0kDfxgVflcbVN3itGrKUNzhJY2

03/18/2021

Scale = 1:9.5



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 0.09	Vert(LL)	0.00	5	>999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	5	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR					Weight: 4 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 1-2-1 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2			

REACTIONS.	(size) 5=0-4-0, 3=Mechanical, 4=Mechanical
	Max Horz 5=33(LC 9)
	Max Uplift 5=28(LC 12), 3=15(LC 12), 4=2(LC 9)
	Max Grav 5=194(LC 1), 3=12(LC 19), 4=14(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) 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 28 lb uplift at joint 5, 15 lb uplift at joint 3 and 2 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26,2021

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2686850

Truss

LG02

Truss Type

GABLE

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #30705

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

Lee's Summit, Missouri

ID:3seZTgShN_qvheIqPBpz4myNXMX-vUkQi62ATNr5?0yTRmhkMkC5BNzD6?LaKRZGzhJY0

9-3-12

9-3-12

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

03/18/2021

Scale = 1:78.6

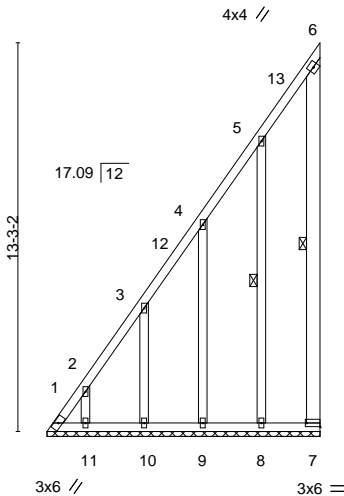


Plate Offsets (X,Y)--		[7:Edge,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
TCDL 20.0		Lumber DOL	1.15
BCLL 0.0		Rep Stress Incr	YES
BCDL 10.0		Code	IRC2018/TPI2014
		CSI.	
		TC	0.57
		BC	0.39
		WB	0.29
		Matrix-S	
		DEFL.	
		in (loc)	l/defl L/d
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 7 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 76 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-10 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SPF No.2	WEBS	1 Row at midpt 6-7, 5-8
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 9-3-12.
 (lb) - Max Horz 1=439(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=336(LC 10), 7=218(LC 11), 8=219(LC 12), 9=202(LC 12), 10=214(LC 12), 11=177(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 11 except 1=550(LC 12), 8=264(LC 19), 9=279(LC 19), 10=281(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1077/1064, 2-3=-926/930, 3-4=-724/742, 4-5=-545/581, 5-6=-273/302, 6-7=-258/209
 WEBS 5-8=-406/309, 4-9=-327/252, 3-10=-310/256, 2-11=-252/217

- 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) 0-3-6 to 4-6-4, Exterior(2R) 4-6-4 to 9-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 336 lb uplift at joint 1, 218 lb uplift at joint 7, 219 lb uplift at joint 8, 202 lb uplift at joint 9, 214 lb uplift at joint 10 and 177 lb uplift at joint 11.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26,2021

Job

2686850

Truss

LG04

Truss Type

GABLE

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

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03/18/2021

6-3-3

6-3-3

12-6-6

6-3-3

3x4 =

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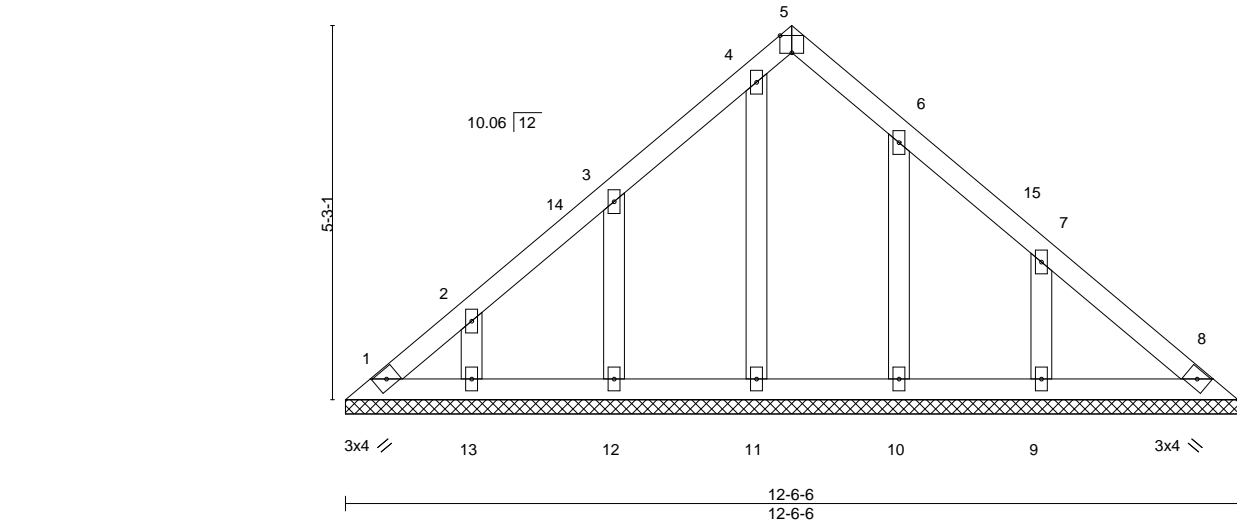


Plate Offsets (X,Y)--		[5:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08
TCDL 20.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 8 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 47 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 12-6-6.
 (lb) - Max Horz 1=128(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 13, 10 except 12=114(LC 12), 9=132(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 12, 13, 10 except 9=299(LC 20)

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

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-3-3, Exterior(2R) 6-3-3 to 9-3-3,
 Interior(1) 9-3-3 to 12-1-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces &
 MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 2x4 MT20 unless otherwise indicated.
 4) Gable requires continuous bottom chord bearing.
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 13, 10 except (jt=lb) 12=114, 9=132.
 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26, 2021

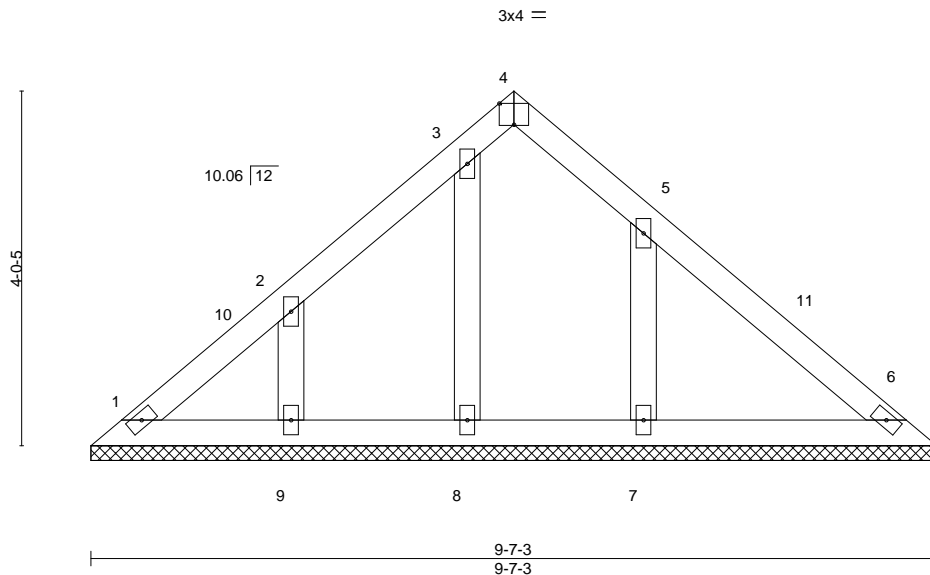


Plate Offsets (X,Y)-- [4:0-2-0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 32 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 9-7-3.
(lb) - Max Horz 1=96(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8 except 9=118(LC 12), 7=134(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8 except 9=264(LC 19), 7=347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-7=-273/206

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-9-10, Exterior(2R) 4-9-10 to 7-9-10, Interior(1) 7-9-10 to 9-2-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 9=118, 7=134.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26, 2021



Design valid for use only with MiTeC® 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 Code**.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

2686850

Truss

LG07

Truss Type

GABLE

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #30705

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

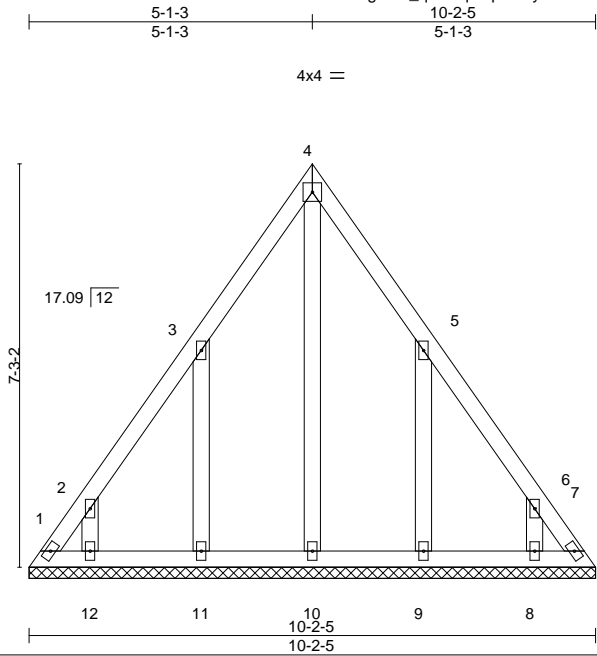
8.430 s Feb 12 2021 MiTek Industries, Inc. 14976748

ID:3seZTgShN_qvheIqPBpz4myNXMX-J3QYL752IIEPySIX8aJOM_NLWJJbAdkR1YY58bzhJXz

03/18/2021

4x4 =

Scale = 1:41.5



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 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 49 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.

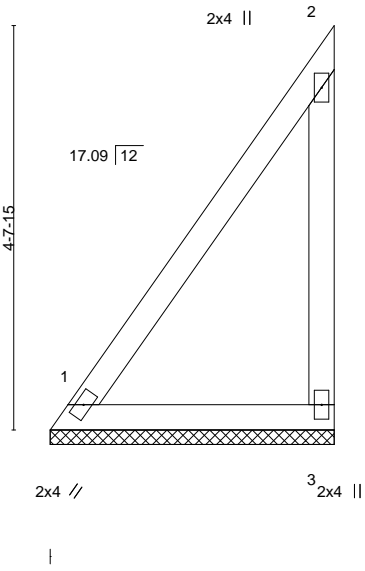
REACTIONS. All bearings 10-2-5.
(lb) - Max Horz 1=197(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-140(LC 10), 7=-117(LC 11), 11=-222(LC 12), 12=-171(LC 12), 9=-221(LC 13), 8=-172(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 7, 10, 12, 8 except 1=261(LC 12), 11=300(LC 19), 9=299(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-320/226, 6-7=-303/226
WEBS 3-11=-312/240, 5-9=-312/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-1-3, Interior(1) 3-1-3 to 5-1-3, Exterior(2R) 5-1-3 to 8-1-3, Interior(1) 8-1-3 to 9-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 140 lb uplift at joint 1, 117 lb uplift at joint 7, 222 lb uplift at joint 11, 171 lb uplift at joint 12, 221 lb uplift at joint 9 and 172 lb uplift at joint 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.



February 26,2021



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.08	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: 14 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2			

REACTIONS. (size) 1=3-3-5, 3=3-3-5
Max Horz 1=160(LC 9)
Max Uplift 1=42(LC 8), 3=117(LC 9)
Max Grav 1=212(LC 20), 3=217(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-253/279, 2-3=-310/240

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 42 lb uplift at joint 1 and 117 lb uplift at joint 3.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 26,2021

Job

2686850

Truss

LG09

Truss Type

GABLE

Qty

1

Ply

1

SUMMIT/WOODS

DE RIDGE #3070

Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:3seZTgShN_qvheIqPBpZ4myNXMX-GSXJmp6JHwU6BmuvF_MsRPSg86_oeXwkUs1CDTzhJXx

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

03/18/2021

Scale = 1:36.4

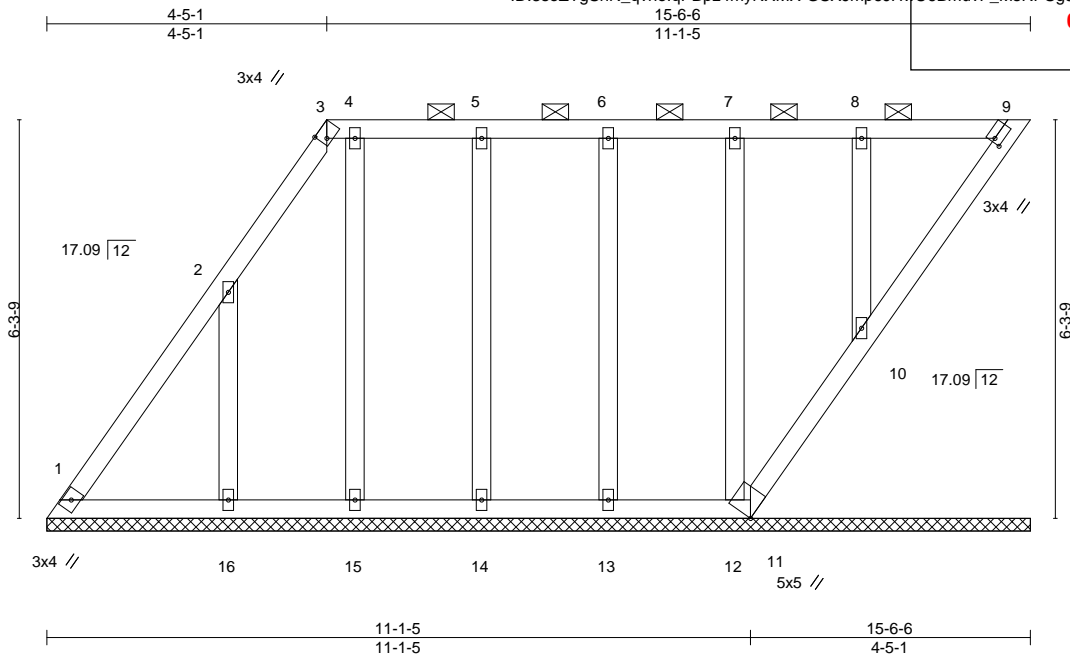


Plate Offsets (X,Y)--		[3:0-1-2,Edge], [9:0-0-12,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14
TCDL 20.0	Lumber DOL	1.15	BC 0.05
BCLL 0.0	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 9 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 76 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 3-9.
OTHERS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-6.
 (lb) - Max Horz 1=245(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 15, 14, 13, 12, 10 except 16=-276(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 11, 15, 14, 13, 12 except 16=371(LC 19), 10=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-16=-357/280

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 4-5-1, Exterior(2R) 4-5-1 to 7-5-1, Interior(1) 7-5-1 to 15-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 15, 14, 13, 12, 10 except (jt=lb) 16=276.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 26, 2021

Job

2686850

Truss

V03

Truss Type

VALLEY

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc.

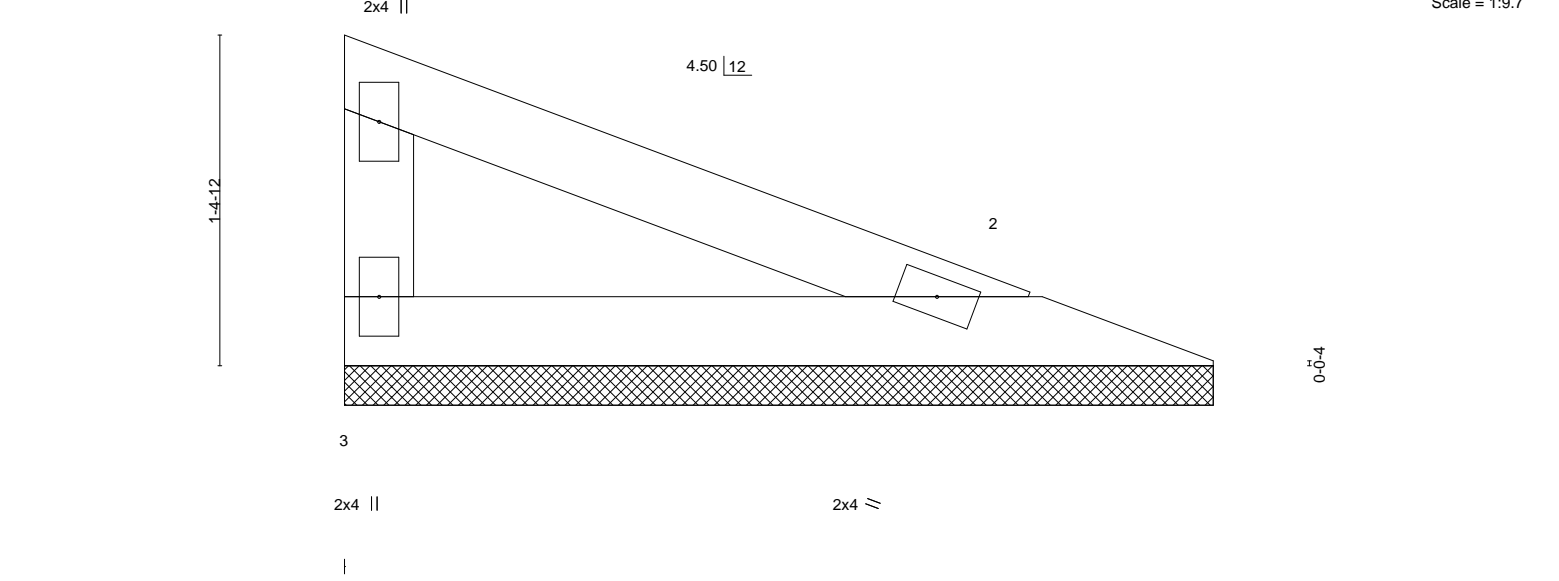
Lee's Summit, Missouri

03/18/2021

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J44976751



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 0.17	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 20.0	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	2	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

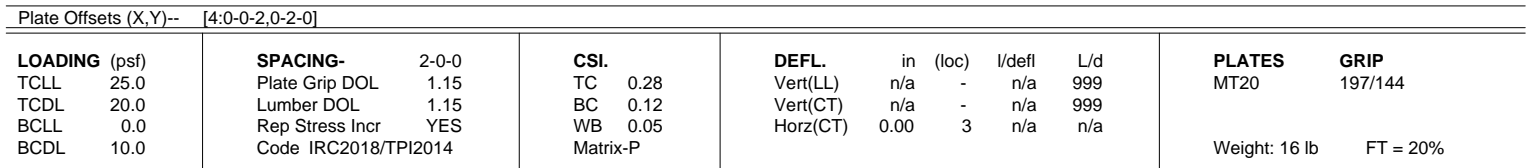
REACTIONS. (size) 3=3-8-0, 2=3-8-0
Max Horz 3=-47(LC 10)
Max Uplift 3=-32(LC 13), 2=-24(LC 13)
Max Grav 3=151(LC 1), 2=151(LC 1)

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) 3, 2.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



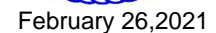
February 26, 2021

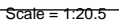


REACTIONS. (size) 5=6-4-11, 3=6-4-11, 4=6-4-11
 Max Horz 5=-91(LC 8)
 Max Uplift 5=-38(LC 13), 3=-78(LC 1), 4=-117(LC 13)
 Max Grav 5=183(LC 1), 3=44(LC 13), 4=489(LC 1)

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 4-3-8, Interior(1) 4-3-8 to 5-6-10 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
- 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) 5, 3 except (jt=lb) 4=117.
- 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.

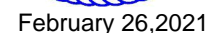




LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2		

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 4-4-11, Interior(1) 4-4-11 to 8-2-10 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
- 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) 5, 3 except (jt=lb) 4=115.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job 2686850	Truss V06	Truss Type VALLEY	Qty 1	Ply 1	SUMMIT/WOODS/DE RIDGE #30705
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Feb 12 2021 MiTek Industries, Inc. 14976754		
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Crf3AV8ZpXkqQ42INPOKWqX1MweB6RI1yAWJHMzhJXv			Job Reference (optional) LEE'S SUMMIT, MISSOURI		
2-7-15 2-7-15			5-3-14 2-7-15		
3x4 =			Scale = 1:11.1		

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/18/2021

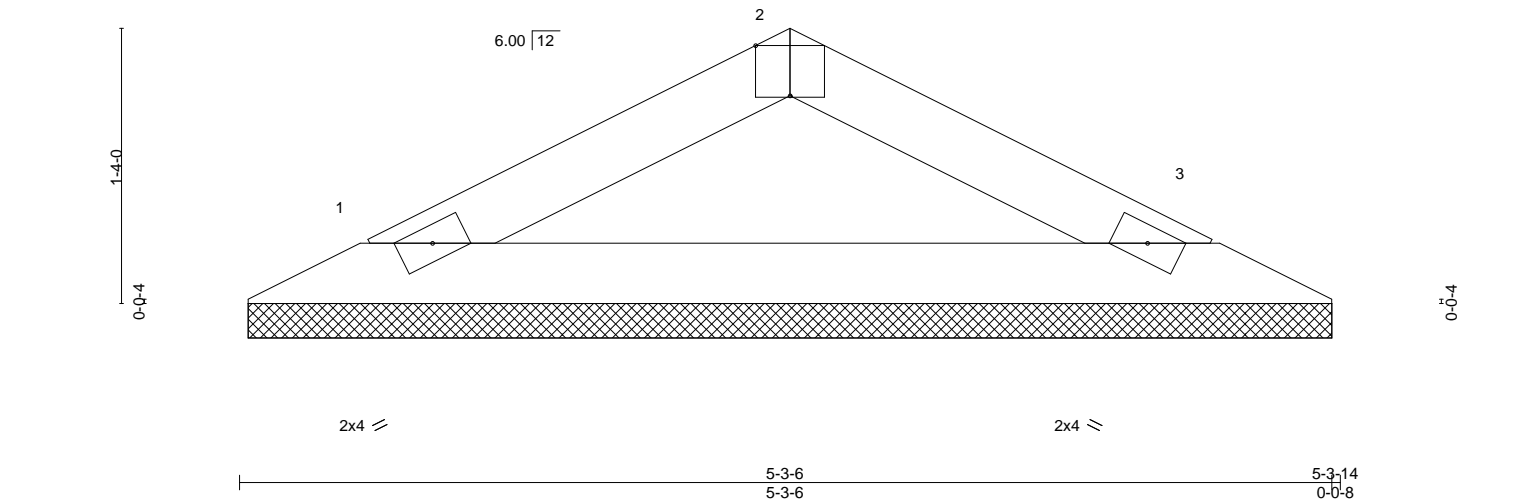


Plate Offsets (X,Y)-- [2:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a - n/a	999	MT20 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a - n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					
								Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-2-14, 3=5-2-14
Max Horz 1=18(LC 16)
Max Uplift 1=30(LC 12), 3=30(LC 13)
Max Grav 1=223(LC 1), 3=223(LC 1)

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

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



February 26, 2021

Job

2686850

Truss

V07

Truss Type

VALLEY

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3775

8.430 s Feb 12 2021 MiTek Industries, Inc. LEE'S SUMMIT, MISSOURI

Job Reference (optional)

ID: wH4RYhEsTNeUP2dXvOf1syQY8e-g1DR0r9Barsh2EdUx7vZ3249_K?druyABqGsqozhJXu

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

Scale = 1:15.3

3-8-0

3-8-0

7-4-0

3-8-0

0-3-0

0-3-0

4x4 =

2x4 =

2x4 ||

2x4 =

6.00 12

2-1-0

0-3-0

0-3-0

1

5

6

2

7

8

3

4

7-4-0

7-4-0

03/18/2021



February 26, 2021

Job

2686850

Truss

V08

Truss Type

VALLEY

Qty

1

Ply

1

SUMMIT/WOODSIDE RIDGE #3070

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

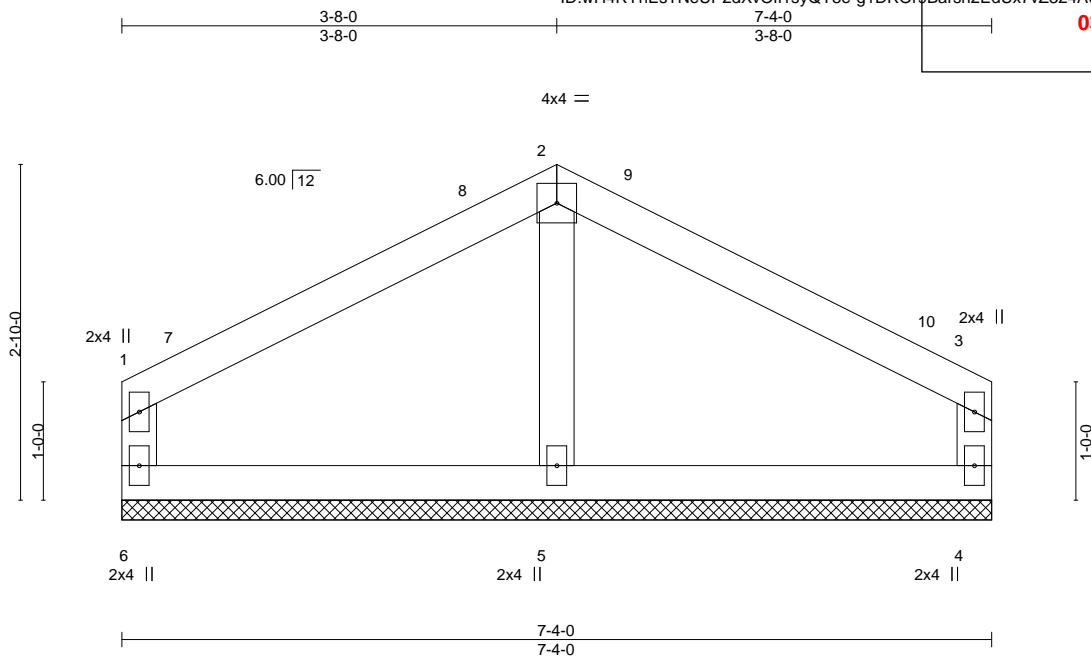
8.430 s Feb 12 2021 MiTek Industries, Inc.

Lee's Summit, Missouri

03/18/2021

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-g1DR0r9Barsh2EdUx7vZ324AUK?jruXABqGsqozhJXu

14976756



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 22 lb	FT = 20%

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

REACTIONS. (size) 6=7-4-0, 4=7-4-0, 5=7-4-0
Max Horz 6=-52(LC 10)
Max Uplift 6=-52(LC 12), 4=-53(LC 13)
Max Grav 6=224(LC 1), 4=224(LC 1), 5=327(LC 1)

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

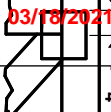
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 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
 - 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) 6, 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.



February 26, 2021

Symbols

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



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

For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

4 X 4

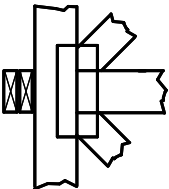
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



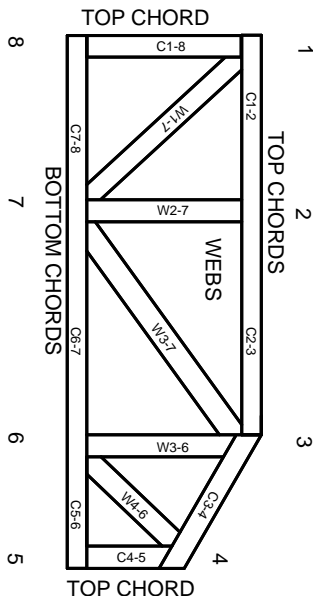
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.