



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

08/26/2020

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

Re: 2423042
Summit/67 Stoney Creek

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: I42494392 thru I42494445

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

Missouri COA: Engineering 001193



August 20, 2020

Sevier, Scott ,Engineer

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

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

Job 2423042	Truss A1	Truss Type COMMON SUPPORTED GABLE	Ply 1	Summit/67 Stoney Creek 142494392
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				Job Reference (optional)
<div style="display: flex; justify-content: space-between;"> <div> -1-10-8 1-10-8 </div> <div> 15-6-0 15-6-0 </div> <div> 32-0-0 16-6-0 </div> <div> 32-10-8 0-10-8 </div> </div>				240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:02 2020 Page 1 ID:70pNcodsqKg2iw_8MinwzwbO4d-4kUhrZMEZA0TE8oEhZFVmYndVHYfl65Nj9s4csymH3h

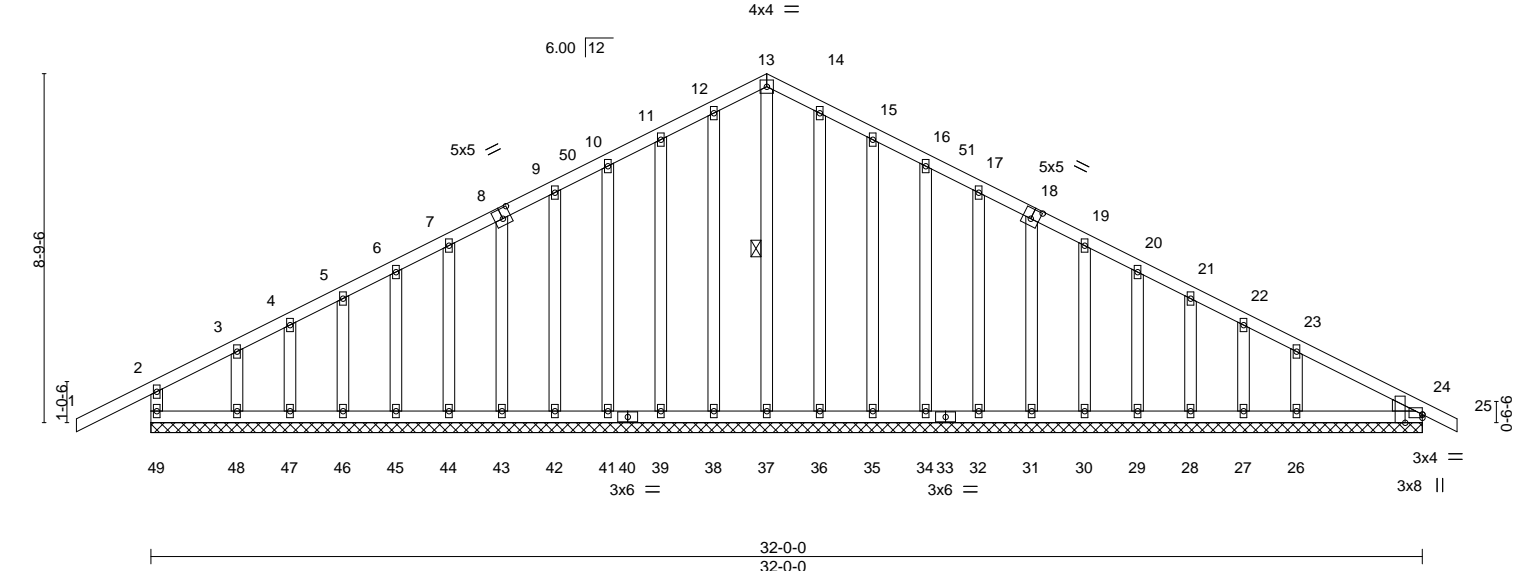


Plate Offsets (X,Y)-- [8:0-2-8,0-3-0], [18:0-2-8,0-3-0], [24:Edge,0-1-0], [24:0-2-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	Plate Grip DOL	2-0-0	TC	0.29	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	0.00 25	n/r		197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	0.00 25	n/r		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S		0.00 24	n/a		
BCDL	10.0							Weight: 196 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 13-37
OTHERS	2x4 SPF No.2		
WEDGE			
Right: 2x4 SPF No.2			

REACTIONS. All bearings 32-0-0.
 (lb) - Max Horz 49=-102(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 49, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 24
 Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34, 32, 31, 30, 29, 28, 27, 24 except 49=278(LC 2), 26=276(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-49=-250/35

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 24.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job 2423042	Truss A2	Truss Type MOD. QUEEN	Ply 1	Summit/67 Stoney Creek 142494393
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				Job Reference (optional)

ID: 70pNcdsqKg2iw_8MinwnwzbO4d-Rzp?S4d1OxnMtWTT_AegfBIDn8tbvulcmaBFObymH3L

9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:24 2020 Page 1

-1-10-8
1-10-8

4-7-6
4-7-6

9-10-15
5-3-10

15-6-0
5-7-1

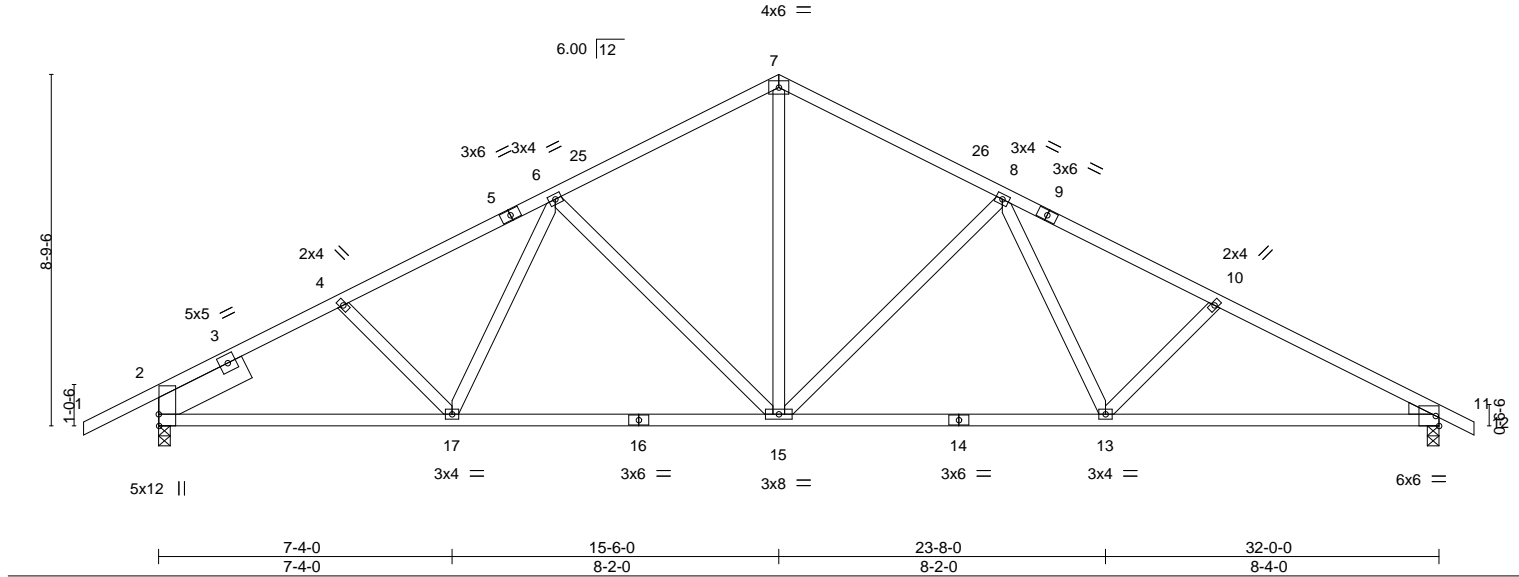
21-1-1
5-7-1

26-4-10
5-3-10

32-0-0
5-7-6

32-10-8
0-10-8

Scale = 1:57.6



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.16	15-17	>999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.35	15-17	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.10	11	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 139 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		
WEDGE			
Right: 2x4 SP No.3			
SLIDER	Left 2x8 SP 2400F 2.0E 2-6-0		

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=91(LC 11)
 Max Uplift 2=47(LC 12), 11=43(LC 13)
 Max Grav 2=1574(LC 2), 11=1498(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2148/428, 4-6=-2047/76, 6-7=-1640/94, 7-8=-1636/89, 8-10=-2312/87, 10-11=-2567/86
 BOT CHORD 2-17=-80/1799, 15-17=-28/1747, 13-15=0/1837, 11-13=-19/2207
 WEBS 6-15=-560/109, 7-15=-19/1023, 8-15=-671/111, 8-13=-1/420, 10-13=-312/97

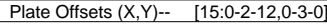
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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~~08/26/2020~~

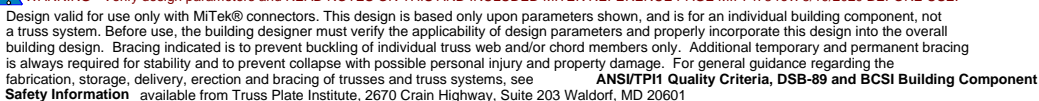
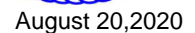
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Weight: 155 lb FT = 20%

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



[illegible]

LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Right: 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2. BOT CHORD Rigid ceiling directly applied.
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2446/52, 3-4=-2376/136, 4-5=-1632/90, 5-7=-2309/93, 7-8=-2563/91
BOT CHORD	14-15=-126/2989, 3-14=-553/133, 10-12=0/1832, 8-10=-23/2202
WEBS	2-14=-915/126, 12-14=0/1370, 4-14=-96/1321, 4-12=-51/427, 5-12=-673/110, 5-10=0/430, 7-10=-311/96, 2-15=-3091/169

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20, 2020



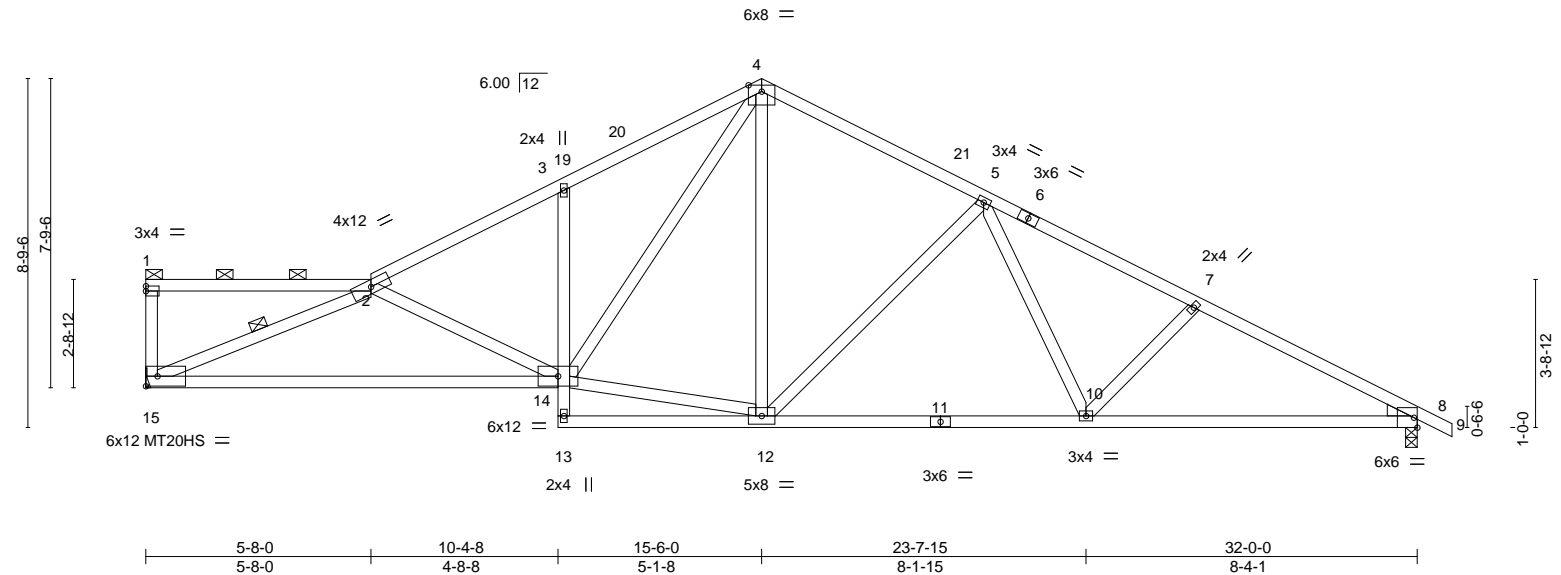
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply	Summit/67 Stoney Creek	142494396
2423042	A5	Roof Special			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:70pNcodsqKg2iw_8MinwnwzbO4d-nxduVohACTQezIMQmkErME?B39Ywa9zLwsv03oymH3G 240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:29 2020 Page 1				
5-8-0		10-4-8	15-6-0	21-1-1	26-4-8	32-0-0	32-10-8
5-8-0		4-8-8	5-1-8	5-7-1	5-3-7	5-7-8	0-10-8

Scale = 1:58.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.52	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.96	Vert(LL)	-0.32 14-15	>999	240	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.15	WB	0.75	Vert(CT)	-0.68 14-15	>565	180		
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.11 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014								Weight: 145 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.): 1-2.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-15
WEDGE			
Right: 2x4 SP No.3			

REACTIONS. (size) 15=Mechanical, 8=0-3-8
Max Horz 15=-142(LC 8)
Max Uplift 15=-36(LC 12), 8=-46(LC 13)
Max Grav 15=1433(LC 2), 8=1496(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-256/36, 2-3=-2392/43, 3-4=-2355/121, 4-5=-1632/90, 5-7=-2309/92, 7-8=-2563/91
BOT CHORD 14-15=-66/2606, 3-14=-443/107, 10-12=0/1831, 8-10=-23/2203
WEBS 2-14=-609/89, 12-14=0/1396, 4-14=-81/1227, 4-12=-50/424, 5-12=-672/110, 5-10=0/430, 7-10=-312/96, 2-15=-2729/106

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

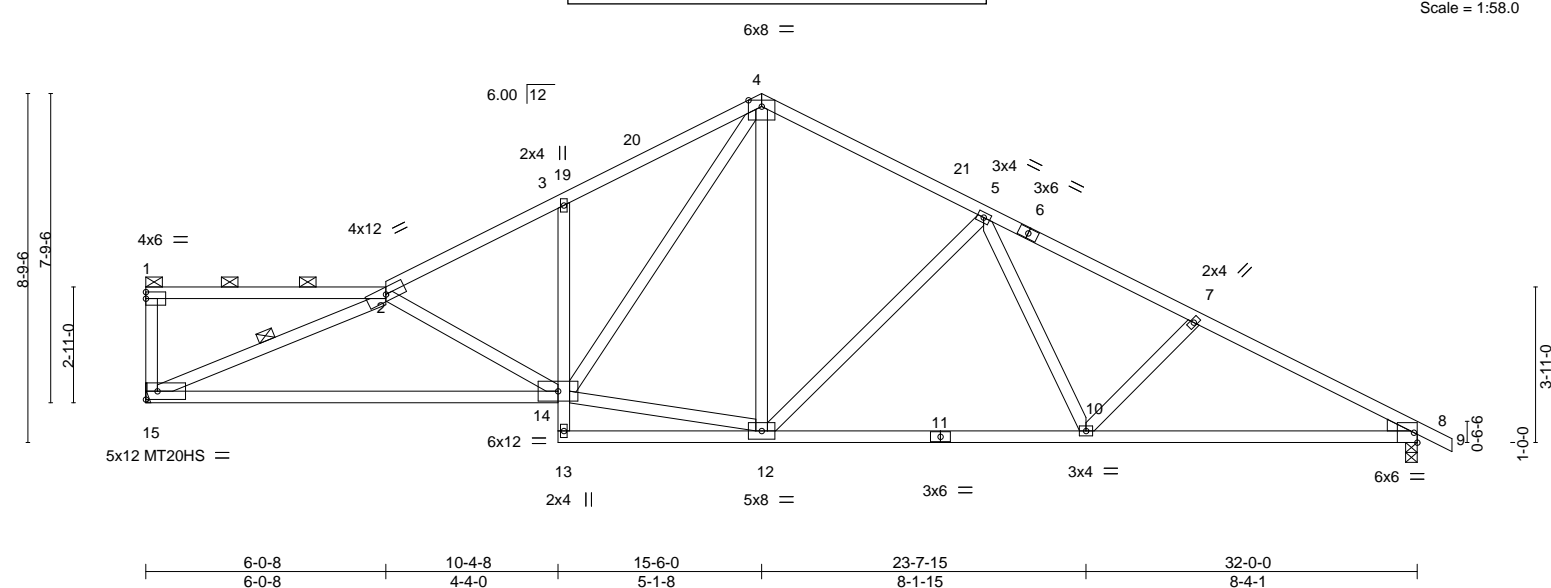
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 2423042	Truss A6	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494397 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:31 2020 Page 1 ID:70pNcdsqKg2iw_8MinwnwzbO4d-jJkfwTjQk5gMDbVpu8GJRf4WHzER23TeNAO78hymH3E
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.54	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.96	Vert(LL)	-0.32 14-15	>999	240	MT20HS	148/108
TCDL	10.0	Lumber DOL	1.15	WB	0.75	Vert(CT)	-0.68 14-15	>563	180		
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.11 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014								Weight: 145 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.): 1-2.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-15
WEDGE			
Right: 2x4 SP No.3			

REACTIONS.	
(size)	15=Mechanical, 8=0-3-8
Max Horz	15=-146(LC 8)
Max Uplift	15=-36(LC 12), 8=-46(LC 13)
Max Grav	15=1433(LC 2), 8=1496(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-15=-271/38, 2-3=-2385/42, 3-4=-2352/118, 4-5=-1632/90, 5-7=-2309/92, 7-8=-2563/91
BOT CHORD	14-15=-56/2557, 3-14=-422/102, 10-12=0/1831, 8-10=-23/2203
WEBS	2-14=-580/85, 12-14=0/1400, 4-14=-78/1207, 4-12=-50/424, 5-12=-671/110, 5-10=0/430, 7-10=-312/96, 2-15=-2681/99

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

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

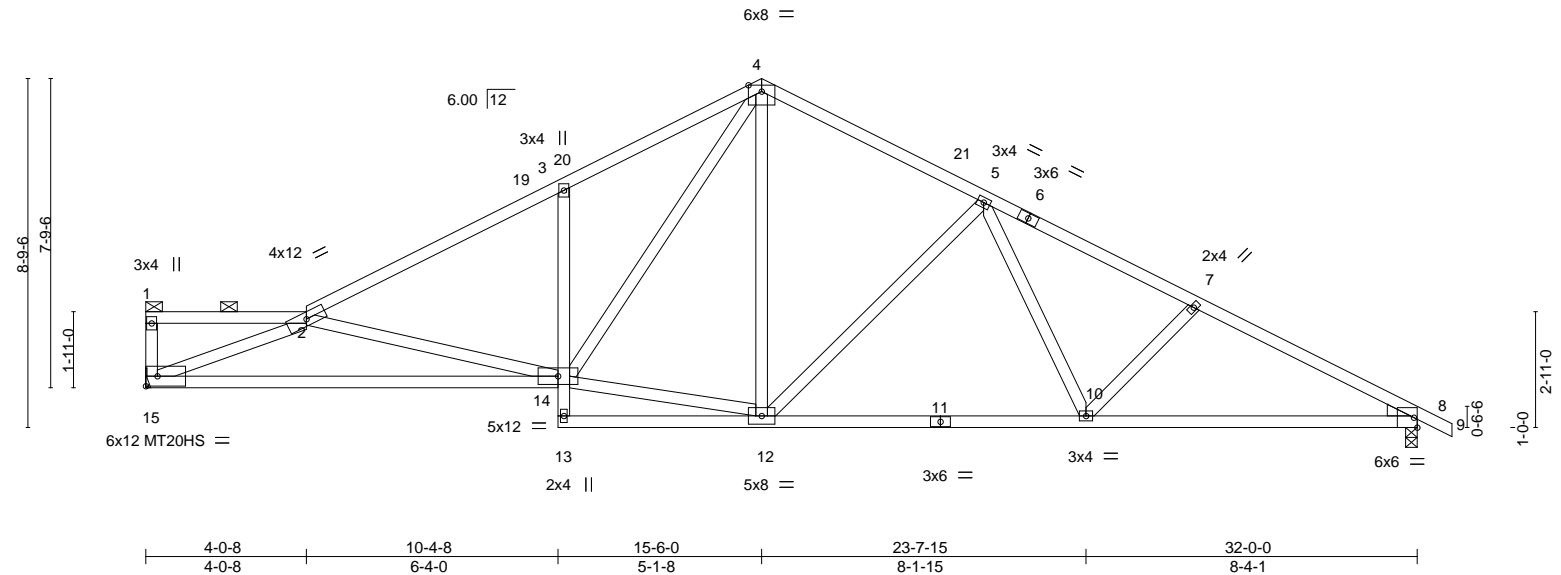
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply	Summit/67 Stoney Creek	142494398
2423042	A7	Roof Special			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:70pNcdsqKg2iw_8MinwnwzbO4d-CW118pj3VOoDr14?SsnY_tdgNNZFnsWncq7gg7ymH3D 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:32 2020 Page 1				
4-0-8	10-4-8	15-6-0	21-1-1	26-4-8	32-0-0	32-10-8	
4-0-8	6-4-0	5-1-8	5-7-1	5-3-7	5-7-8	0-10-8	

Scale = 1:58.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.58	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.98	Vert(LL)	-0.31 14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.99	Vert(CT)	-0.67 14-15	>567	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.12 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TP12014								Weight: 143 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 15=Mechanical, 8=0-3-8
Max Horz 15=-127(LC 8)
Max Uplift 15=-34(LC 12), 8=-46(LC 13)
Max Grav 15=1433(LC 2), 8=1496(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2434/50, 3-4=-2372/134, 4-5=-1632/90, 5-7=-2309/93, 7-8=-2563/91
BOT CHORD 14-15=-113/2894, 3-14=-532/128, 10-12=0/1832, 8-10=-23/2202
WEBS 2-14=-832/117, 12-14=0/1375, 4-14=-93/1304, 4-12=-51/426, 5-12=-672/110, 5-10=0/430, 7-10=-311/96, 2-15=-3003/153

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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/TP1 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI						Ply	Summit/67 Stoney Creek									
2423042	A8	Roof Special							1	142494399									
Builders FirstSource (Valley Center), Valley Center, KS - 67147,										Job Reference (optional)									
ID:70PncodsqKgZiw_8MinwzboD4d-c5_AmmrxoJAoiDpa7_LFcVFDhaeK_tSDIoMKHSymH3A										9 2020 MITek Industries, Inc. Wed Aug 19 13:04:35 2020 Page 1									
2-0-8		6-2-8		10-4-8		15-6-0		21-1-1		26-4-8		32-0-0		32-10-8					
2-0-8		4-2-0		4-2-0		5-1-8		5-7-1		5-3-7		5-7-8		0-10-8					

The diagram illustrates a roof truss system with the following components and dimensions:

- Members:**
 - Top chord: 5x12 MT20HS (1), 4x4 (3), 2x4 (4), 6x8 (5), 3x4 (6), 3x6 (7), 2x4 (8).
 - Internal bracing: 3x4 (11), 2x4 (12), 3x6 (13), 6x6 (14), 5x12 (15), 2x4 (16), 4x4 (17), 4x6 (18).
 - Bottom chord: 2x4 (19), 5x8 (20), 3x6 (21), 6x6 (22), 5x12 (23), 4x4 (24), 2x4 (25), 4x6 (26), 3x4 (27), 6x8 (28).
- Dimensions:**
 - Overall height: 8.9-6 (left), 7.9-6 (right), 1-11-0 (far right).
 - Horizontal spacing: 2-0-8, 6-2-8, 10-4-8, 15-6-0, 23-7-15, 32-0-0.
 - Vertical spacing: 0-11-0 (left), 0-6-6 (right).

[illegible]

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
15-18: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
WEDGE
Right: 2x4 SP No.3

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD	Rigid ceiling directly applied.

(size) 18=Mechanical, 9=0-3-8
Max Horz 18=-107(LC 8)
Max Uplift 18=-33(LC 12), 9=-46(LC 13)
Max Grav 18=1433(LC 2), 9=1496(LC 2)

TOP CHORD 1-2=-384/7, 2-3=-2908/66, 3-4=-2334/71, 4-5=-2327/142, 5-6=-1632/90, 6-8=-2309/93,
8-9=-2563/92

BOT CHORD 17-18=-114/3429, 16-17=-107/3397, 15-16=-59/2556, 4-15=-398/97, 11-13=0/1831,
9-11=-24/2203

WEBS 3-15=-703/61, 13-15=0/1286, 5-15=-106/1253, 5-13=-42/444, 6-13=-672/109,
6-11=0/431, 8-11=-312/96, 2-18=-3237/76, 2-16=-852/48, 3-16=0/327

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20, 2020



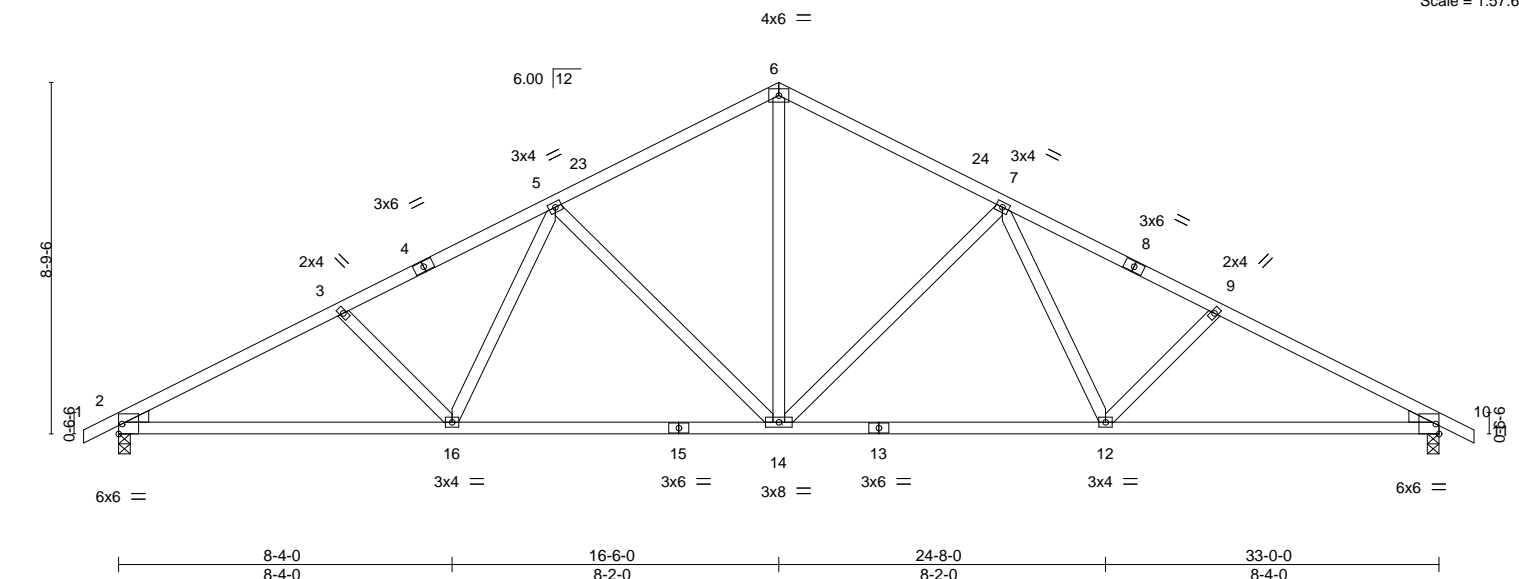
WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED WALKER REFERENCE PAGE MP147316V, 3/15/2020 (2 OF 3) USE:
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for a single building component, not a truss system. Before use, the 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 2423042	Truss A9	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply 1	Summit/67 Stoney Creek 142494400
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:70pNcodsqKg2iw_8Minwnwzbo4d-YT5wBXnBKxQWxWzzEPNjhwKYrOJMSn_Wm6rRLKymH38 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:37 2020 Page 1 O4d-YT5wBXnBKxQWxWzzEPNjhwKYrOJMSn_Wm6rRLKymH38			
-0-10-8 0-10-8	5-7-6 5-7-6	10-10-15 5-3-10	16-6-0 5-7-1	22-1-1 5-7-1	27-4-10 5-3-10	33-0-0 5-7-6

Scale = 1:57.6



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.53	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.79	Vert(LL)	-0.17 12-14	>999 240			
TCDL	10.0	Lumber DOL	1.15	WB	0.75	Vert(CT)	-0.34 12-14	>999 180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.11 10	n/a n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 133 lb	FT = 20%	

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=89(LC 11)
 Max Uplift 2=-43(LC 12), 10=-43(LC 13)
 Max Grav 2=1546(LC 2), 10=1546(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2667/85, 3-5=-2413/85, 5-6=-1740/93, 6-7=-1740/93, 7-9=-2413/86,
 9-10=-2667/85
 BOT CHORD 2-16=-99/2295, 14-16=-32/1929, 12-14=0/1929, 10-12=-18/2295
 WEBS 6-14=-18/1103, 7-14=-670/111, 7-12=-1/420, 9-12=-310/97, 5-14=-670/111,
 5-16=-1/420, 3-16=-310/96

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

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
2423042

Truss
A10

Truss Type
Common

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

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

08/26/2020

Summit/67 Stoney Creek 142494401

Job Reference (optional)

240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:05 2020 Page 1

ID:70pNcdsqKg2iw_8MinwnwzbO4d-UJAqTaO7s5O25cWpMhoCOA?4uUOrlyspP75IDBymh3e

5-8-6
5-8-6

10-11-15
5-3-10

16-7-0
5-7-1

22-2-1
5-7-1

27-5-10
5-3-10

33-1-0
5-7-6

33-11-8
0-10-8

Scale = 1:57.2

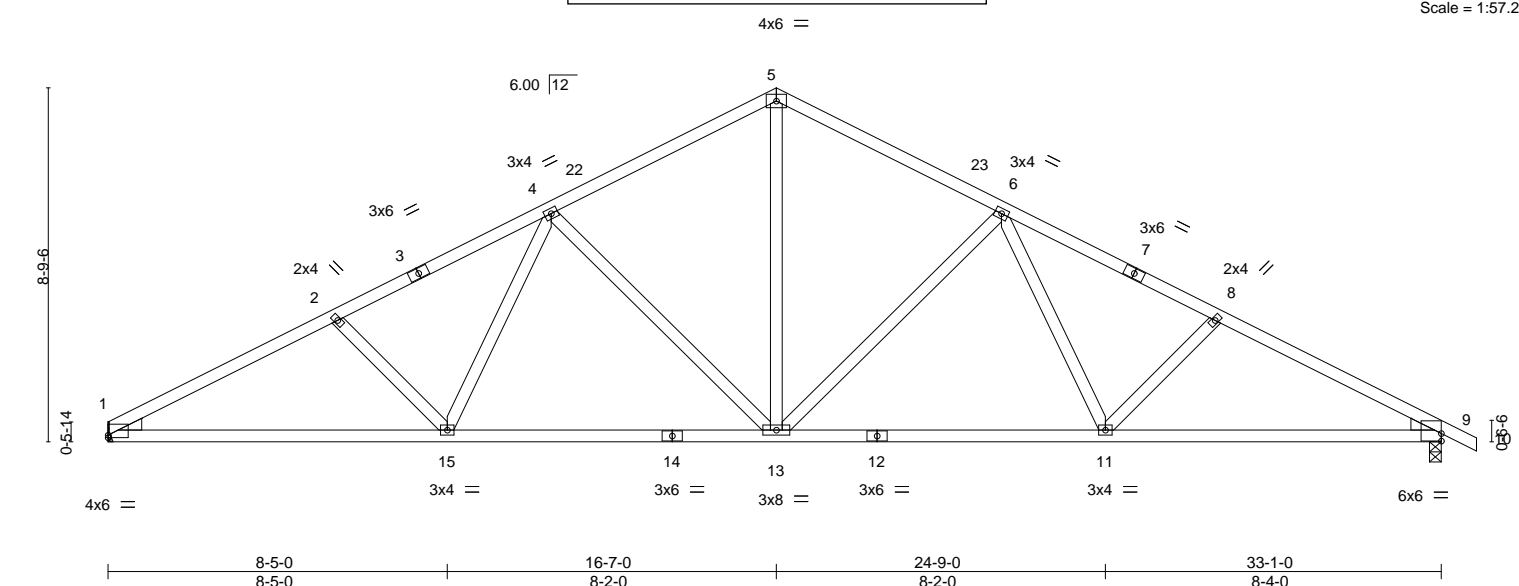


Plate Offsets (X,Y)-- [1:0-0-0,0-0-12], [9:0-0-0,0-2-4]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	25.0	2-0-0		TC	0.53	in (loc)	l/defl
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.80	Vert(LL)	L/d
TCDL	10.0	Lumber DOL	1.15	WB	0.76	Vert(CT)	
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	
BCDL	10.0	Code IRC2018/TPI2014					
						PLATES	GRIP
						MT20	197/144
						Weight: 132 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		
WEDGE			
Left: 2x4 SP No.3, Right: 2x4 SP No.3			

REACTIONS. (size) 1=Mechanical, 9=0-3-8
Max Horz 1=-90(LC 10)
Max Uplift 1=-36(LC 12), 9=-43(LC 13)
Max Grav 1=1488(LC 2), 9=1551(LC 2)

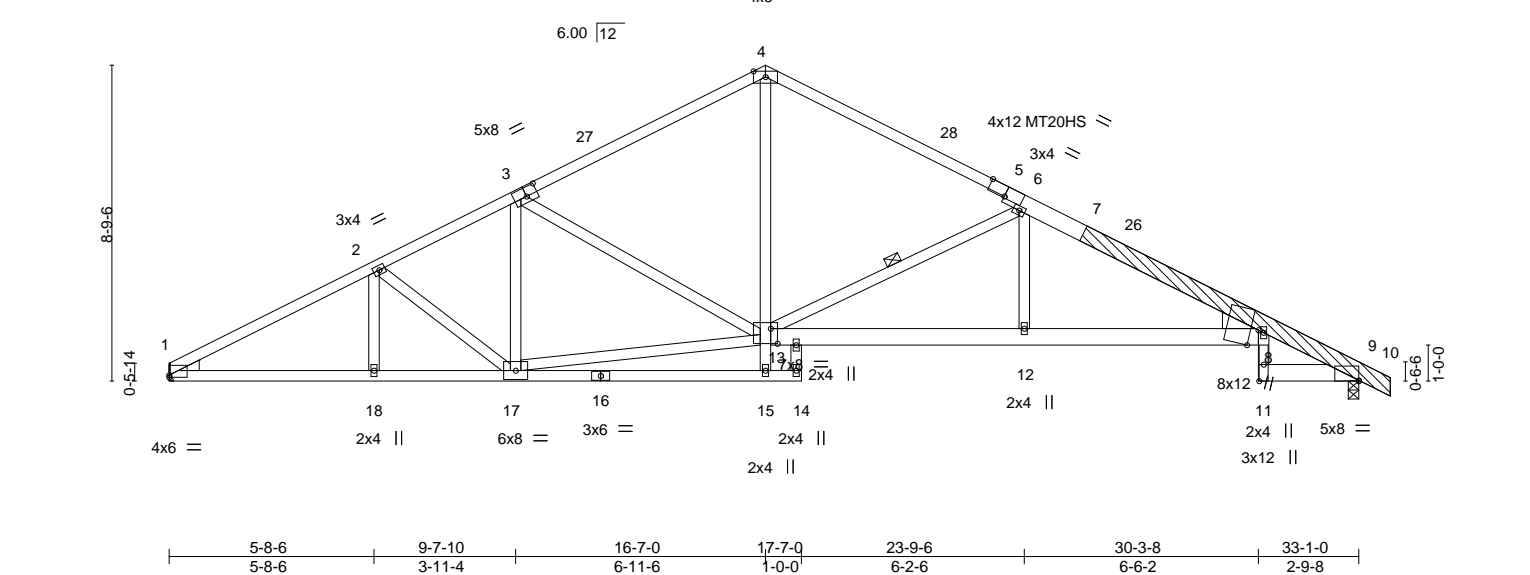
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2712/86, 2-4=-2451/87, 4-5=-1749/92, 5-6=-1749/93, 6-8=-2423/85, 8-9=-2677/85
BOT CHORD 1-15=-101/2343, 13-15=-33/1947, 11-13=0/1937, 9-11=-17/2304
WEBS 5-13=-19/1110, 6-13=-670/111, 6-11=-1/421, 8-11=-310/97, 4-13=-682/111, 4-15=-2/439, 2-15=-332/98

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

Job 2423042	Truss A11	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70pNcodsqKg2iw_8MinwzboO4d-QiHauGQNOjemLvgCU6qqTb5MII2GQES6sRarI4ymH3c 08/26/2020		Summit/67 Stoney Creek 142494402 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:07 2020 Page 1 17-7-0 23-9-6 30-3-8 33-1-0 33-11-8 6-11-6 6-2-6 6-6-2 2-9-8 0-10-8
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Scale: 3/16"=1'		



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 6-11: 2x6 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied. Rigid ceiling directly applied.
BOT CHORD	2x4 SPF No.2 *Except* 1-24,9-14: 2x6 SPF 2100F 1.8E, 10-12: 2x6 SPF No.2	BOT CHORD	
WEBS	2x4 SPF No.2 *Except* 20-24: 2x4 SPF 1650F 1.5E		
OTHERS	2x6 SPF 2100F 1.8E		
LBR SCAB	8-11 2x6 SPF 2100F 1.8E one side		
WEDGE			
	Right: 2x4 SP No.3		

REACTIONS. (size) 1=Mechanical, 10=0-3-8
 Max Horz 1=-91(LC 8)
 Max Uplift 1=-36(LC 12), 10=-42(LC 13)
 Max Grav 1=1488(LC 2), 10=1551(LC 2)

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

TOP CHORD	1-2=-5973/199, 2-3=-4306/102, 3-4=-4467/202, 4-5=-2442/63, 5-7=-2644/63, 7-9=-3168/64, 9-10=-814/48
BOT CHORD	1-24=-217/5476, 23-24=-53/625, 3-20=-502/129, 19-20=0/2027, 18-19=0/2115, 17-18=0/2156, 9-13=0/2897
WEBS	9-12=0/457, 2-24=0/600, 7-13=-390/44, 20-24=-153/4652, 2-20=-1369/143, 4-20=-166/2394, 4-17=-51/1054, 13-17=0/3017, 7-17=-758/141

NOTES:-

- 1) Attached 9-7-14 scab 8 to 11, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-0 from end at joint 8, nail 2 row(s) at 3" o.c. for 2-0-0; starting at 4-7-4 from end at joint 8, nail 3 row(s) at 2" o.c. for 4-11-8.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFLD=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conforms to standard ANSI/TPI 1.



August 20, 2020

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>			Ply	Summit/67 Stoney Creek	I42494403
2423042	A12	ROOF SPECIAL				1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:70pNcodsqKg2iw_8MinwhwzbO4d-JTX5keTuSx9CpX_zjyvddRF03vPQM0Qhn3Y3RymH3Y			9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:11 2020 Page 2		
NOTES- 12) 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.								

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

Job 2423042	Truss A13	Truss Type ROOF SPECIAL	Ply 1	Summit/67 Stoney Creek Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:14 2020 Page 1 ID: 70pNcodsqKg2iw_8Minwzbo4d-j2DDMfVmksXmg_iYO4SKF4tYc6RUZK68T1mj1AymH3V	

4-10-8 9-9-0 16-7-0 17-7-0 23-7-15 30-3-8 33-1-0 33-11-8

4-10-8 4-10-8 6-10-0 1-0-0 6-0-15 6-7-8 2-9-8 0-10-8

6x8 =

6.00 | 12

Scale = 1:61.8

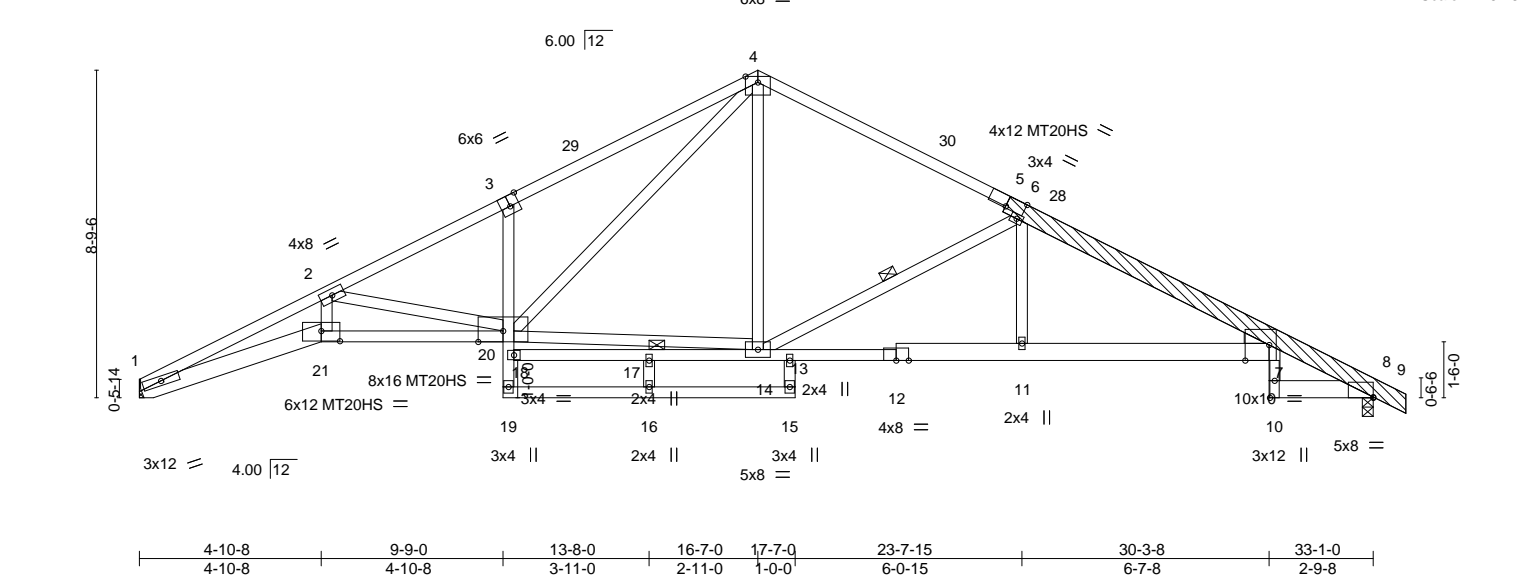


Plate Offsets (X,Y)--		[3:0-3-0,Edge], [5:0-6-0,Edge], [7:0-7-11,Edge], [8:0-0-0,0-0-4], [21:0-6-0,0-3-4]	
LOADING (psf)		SPACING-	CSL.
TCLL (roof)	25.0	2-0-0	TC 0.79
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL 1.15	BC 0.89
TCDL	10.0	Lumber DOL 1.15	WB 0.95
BCLL	0.0	Rep Stress Incr YES	Matrix-AS
BCDL	10.0	Code IRC2018/TPI2014	
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.46 7-11 >856 240
			Vert(CT) -0.84 7-11 >473 180
			Horz(CT) 0.59 8 n/a n/a
			PLATES
			MT20 197/144
			MT20HS 148/108
			Weight: 188 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 5-9: 2x6 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except* 1-21,7-12: 2x6 SPF 2100F 1.8E, 20-21: 2x4 SP 2400F 2.0E 8-10: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 6-14
OTHERS	2x6 SPF 2100F 1.8E	JOINTS	1 Brace at Jt(s): 17
LBR SCAB	5-9 2x6 SPF 2100F 1.8E one side		
WEDGE			
Right: 2x4 SP No.3			

REACTIONS.	(size) 1=Mechanical, 8=0-3-8
	Max Horz 1=-91(LC 8)
	Max Uplift 1=-36(LC 12), 8=-42(LC 13)
	Max Grav 1=1488(LC 2), 8=1551(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-5939/199, 2-3=-3294/100, 3-4=-3313/199, 4-6=-2003/88, 6-7=-3096/64, 7-8=-814/48
BOT CHORD	1-21=-216/5442, 20-21=-198/5042, 3-20=-476/131, 17-18=0/387, 14-17=0/387, 13-14=0/2771, 11-13=0/2833, 7-11=0/2825
WEBS	7-10=0/457, 2-21=-26/1530, 2-20=-2182/144, 6-14=-1321/119, 6-11=0/399, 4-14=-8/603, 14-20=0/1220, 4-20=-159/1739

- NOTES-**
- Attached 12-1-0 scab 5 to 9, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-0 from end at joint 5, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 7-0-6 from end at joint 5, nail 3 row(s) at 2" o.c. for 4-11-8.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 DOL=1.15; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conform to standard ANSI/TPI 1.



August 20,2020

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>			Ply	Summit/67 Stoney Creek	I42494404
2423042	A13	ROOF SPECIAL				1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,						<div> <div>1240 s Mar</div> <div>9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:14 2020 Page 2</div> <div>ID:70pNcodsqKg2iw_8Minwnwzbo4d-j2DDMfVmkXmg_iYO4SKF4tYc6RUZK68T1mj1AymH3V</div> </div>		
NOTES- 12) 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.								

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Summit/67 Stoney Creek	142494405
2423042	A14	Roof Special	ID:70pNcodsqKg2iw_8Minwnwzbo4d-BEmcZ?W0VAFdl8Hkyn_ZoHQkGWoClnvHihWGacymH3U		1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:15 2020 Page 1				
4-9-8		9-8-0	16-6-0		22-1-1		33-0-0
4-9-8		4-10-8	6-10-0		5-7-1		33-10-8
			08/26/2020		27-4-10		0-10-8
					5-3-10		5-7-6

Scale = 1:58.2

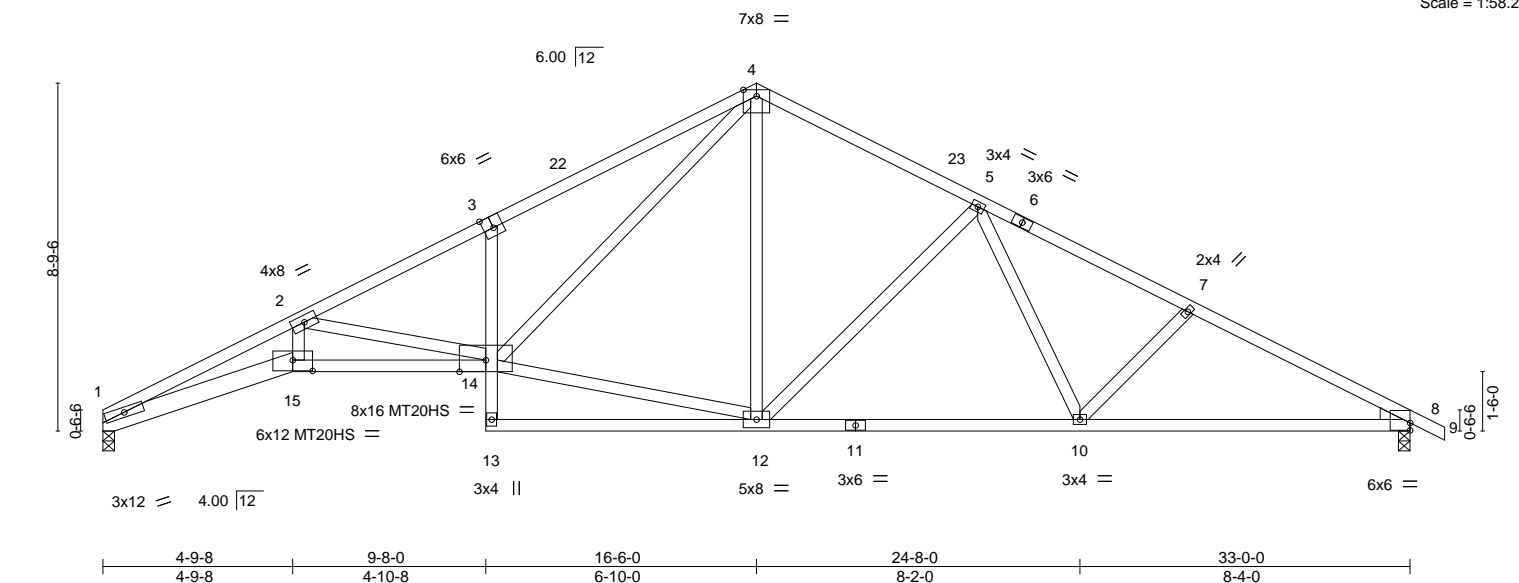


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [8:Edge,0-2-4], [15:0-6-0,0-3-4]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 25.0		Plate Grip DOL		1.15		TC 0.73		Vert(LL)		-0.35 14-15		>999		240		MT20		197/144	
Snow (Pf/Pg) 15.4/20.0		Lumber DOL		1.15		BC 0.79		Vert(CT)		-0.65 14-15		>611		180		MT20HS		148/108	
TCDL 10.0		Rep Stress Incr		YES		WB 0.92		Horz(CT)		0.31 8		n/a		n/a					
BCLL 0.0		Code IRC2018/TPI2014				Matrix-AS													
BCDL 10.0																Weight: 147 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
1-15: 2x6 SPF 2100F 1.8E, 14-15: 2x4 SP 2400F 2.0E	
WEBS 2x4 SPF No.2	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS.	(size) 1=0-3-8, 8=0-3-8
Max Horz 1=90(LC 8)	
Max Uplift 1=35(LC 12), 8=43(LC 13)	
Max Grav 1=1484(LC 2), 8=1547(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-5825/196, 2-3=-3274/100, 3-4=-3305/200, 4-5=-1748/93, 5-7=-2416/86, 7-8=-2670/85
BOT CHORD	1-15=-215/5328, 14-15=-197/4946, 3-14=-476/132, 10-12=0/1928, 8-10=-18/2298
WEBS	2-15=-24/1470, 2-14=-2102/142, 12-14=0/1426, 4-14=-157/1991, 4-12=-39/418, 5-12=-666/110, 5-10=-1/422, 7-10=-310/97

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

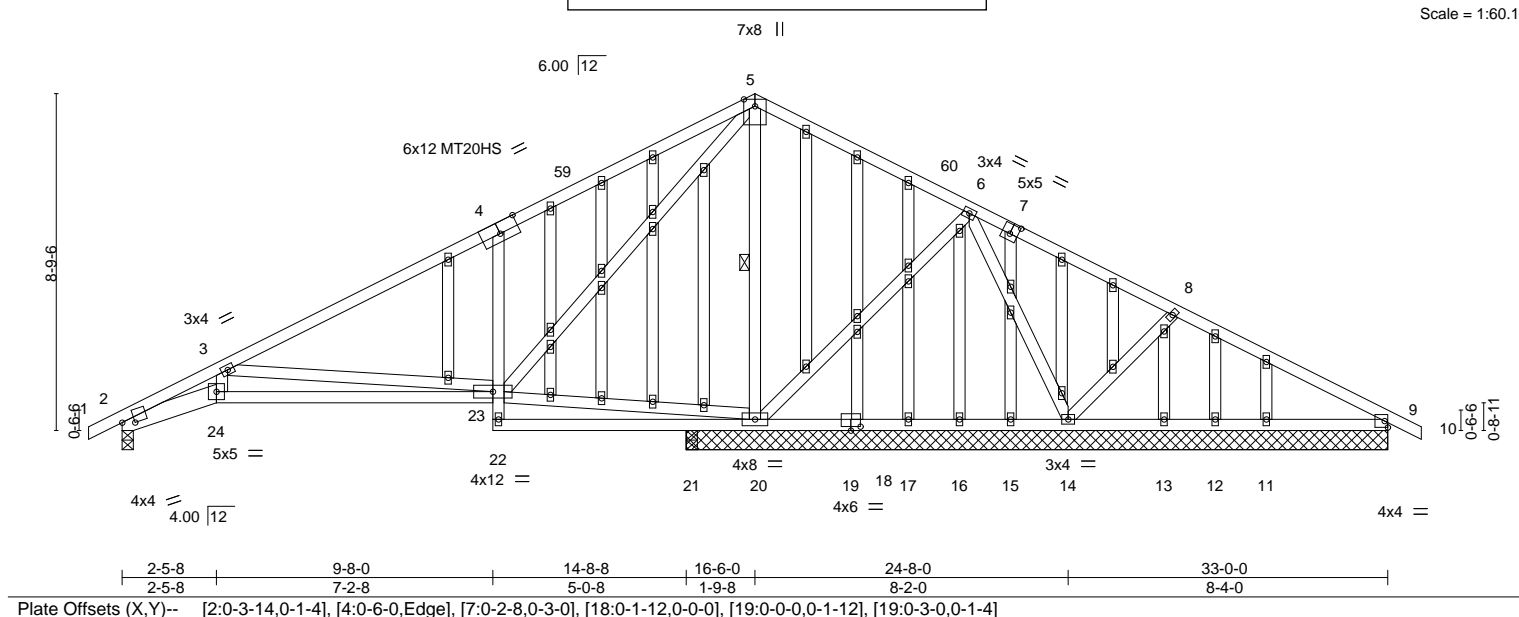
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply	Summit/67 Stoney Creek	I42494406
2423042	A15	Roof Special			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:70pNcodsqKg2iw_8MinwzwbO4d-cpSkCYHo51C9b0JdwXGQw2lNkwTV7gjOfkxAxymH3R		9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:18 2020 Page 1		
-0-10-8	2-5-8	9-8-0	16-6-0	22-1-1	27-4-10	33-0-0	33-10-8
0-10-8	2-5-8	7-2-8	6-10-0	5-7-1	5-3-10	5-7-6	0-10-8



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP
TCLL (roof)	25.0	Plate Grip DOL	2-0-0	TC	0.55	in (loc)	l/defl	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.44	Vert(LL)	>999	MT20HS	148/108	
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Vert(CT)	>889			
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	n/a			
BCDL	10.0									
								Weight: 224 lb		FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	2-24: 2x6 SPF No.2	WEBS	1 Row at midpt 5-20
WEBS	2x4 SPF No.2		
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 18-3-8 except (jt=length) 2=0-3-8, 21=0-3-8.
 (lb) - Max Horz 2=89(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 9 except 20=176(LC 12), 14=310(LC 30)
 Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 15, 13, 12, 11, 21, 9 except 2=459(LC 30), 20=1870(LC 2), 14=383(LC 31), 9=309(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1212/37, 5-6=-24/819, 6-8=0/311
 BOT CHORD 2-24=-94/1127, 23-24=-108/1055, 4-23=-544/153, 18-20=-374/76, 17-18=-374/76, 16-17=-374/76, 15-16=-374/76, 14-15=-374/76
 WEBS 3-24=0/404, 3-23=-1061/141, 20-23=-548/125, 5-23=-137/956, 5-20=-1452/126, 6-20=-519/68, 6-14=-88/478, 8-14=-365/102

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 9, 9 except (jt=lb) 20=176, 14=310.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

Continued on page 2

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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>			Ply	Summit/67 Stoney Creek	I42494406
2423042	A15	Roof Special	Structural Gable			1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			<div> <div>1240 s Mar</div> <div>ID:70pNcodsqKg2iw_8MinwnwzbO4d-4006PNZvZP93nlbVBd2Vy7aT77GiEawtdJUUiNymH3Q</div> </div>					

NOTES-

- 14) 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.

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Summit/67 Stoney Creek
2423042	A16	Roof Special			1	I42494407
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:21 2020 Page 1 ID:70pNcodsqKg2iw_8MhwnwzbO4d-0O8tq2b950Pn03lul24z1Ygqqxwvie4A4dzbnGymH3O			
-0-10-8 2-1-8 7-6-0 0-10-8 2-1-8 5-4-8			9-8-0 11-11-8 15-0-0 15-10-8 2-2-0 2-3-8 3-0-8 0-10-8			
			08/26/2020			

Scale = 1:29.0

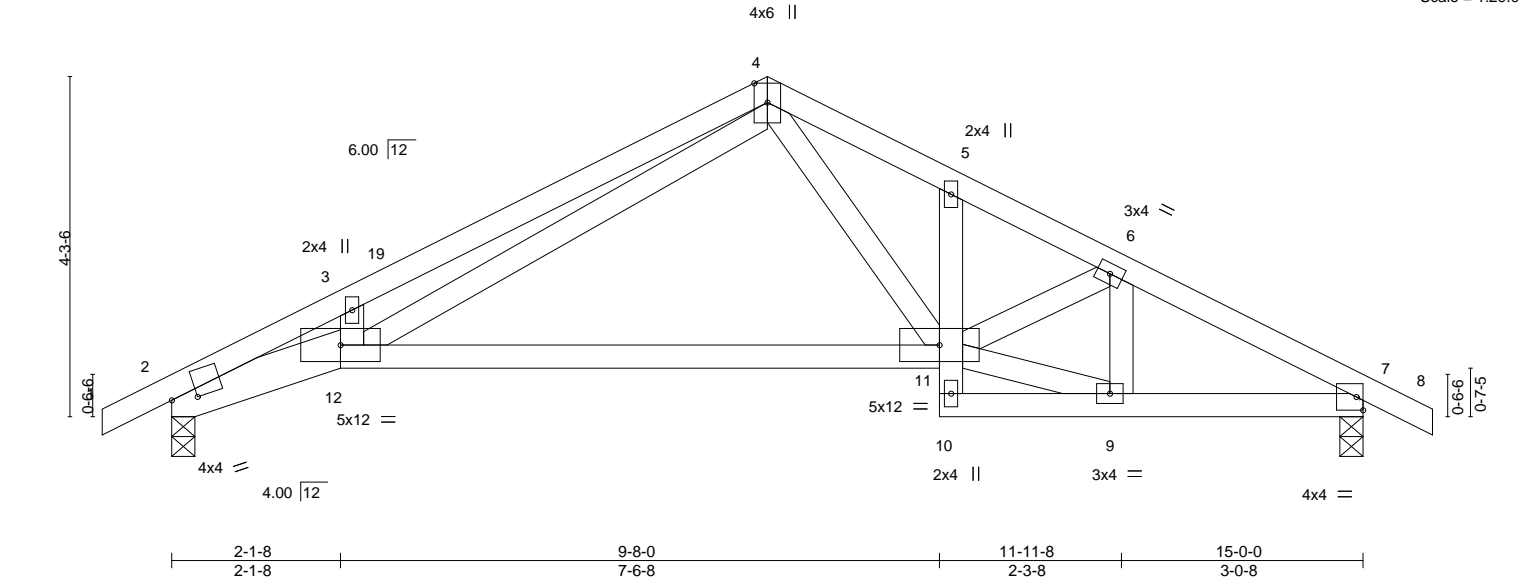


Plate Offsets (X,Y)-- [2:0-3-14,0-0-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0		TC	0.47	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.46	Vert(LL)	-0.12 11-12 >999		197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.30	Vert(CT)	-0.27 11-12 >666		
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.06 7 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 61 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	2-12: 2x6 SPF No.2		
WEBS	2x4 SPF No.2		

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-43(LC 10)
 Max Uplift 2=-23(LC 12), 7=-23(LC 13)
 Max Grav 2=736(LC 2), 7=736(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1989/31, 3-4=-2056/132, 4-5=-1185/40, 5-6=-1189/17, 6-7=-1072/31
 BOT CHORD 2-12=-43/1795, 11-12=0/770, 7-9=0/904
 WEBS 4-12=-99/1206, 4-11=-7/557, 6-9=-283/8, 9-11=0/937

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss A17	Truss Type Common Supported Gable	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>	Ply 1	Summit/67 Stoney Creek 142494408
Builders FirstSource (Valley Center), Valley Center, KS - 67147,		Job Reference (optional) ID:70pNcodsqKg2iw_8MinwnwzbO4d-ynFdKcPddfVFNuHQT7R7zIHulj4AcpSYwShs8ymH3M 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:23 2020 Page 1 15-0-0 7-6-0 15-10-8 0-10-8			

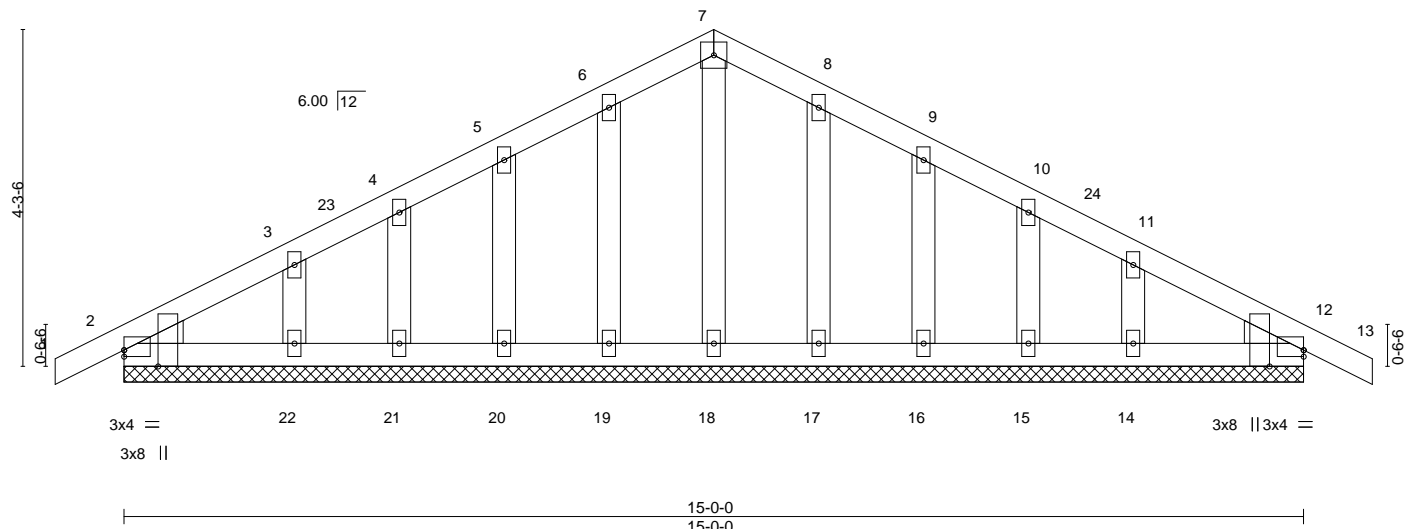


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-2-8,Edge], [12:Edge,0-1-0], [12:0-2-8,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00 12	n/r	120
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 12	n/r	120
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 12	n/a	n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S					
BCDL	10.0								
						Weight: 63 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		
WEDGE			
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2			

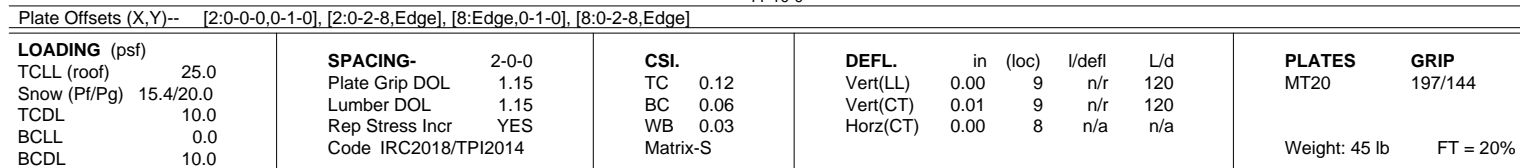
REACTIONS. All bearings 15-0-0.
 (lb) - Max Horz 2=43(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.



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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.

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; TC DL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TC LL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss B2	Truss Type Common	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494410 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:39 2020 Page 1 ID:70pNcodsqKg2iw_8MinwnwzbD4d-UdGcCpSsYgDAq7LMqPBmLPwcB7ewsGpDQKYQDymH36
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					
<div style="display: flex; justify-content: space-between;"> <div> -0-10-8 0-10-8 </div> <div> 5-11-0 5-11-0 </div> <div> 11-10-0 5-11-0 </div> <div> 12-8-8 0-10-8 </div> </div>					
			Scale = 1:23.7		

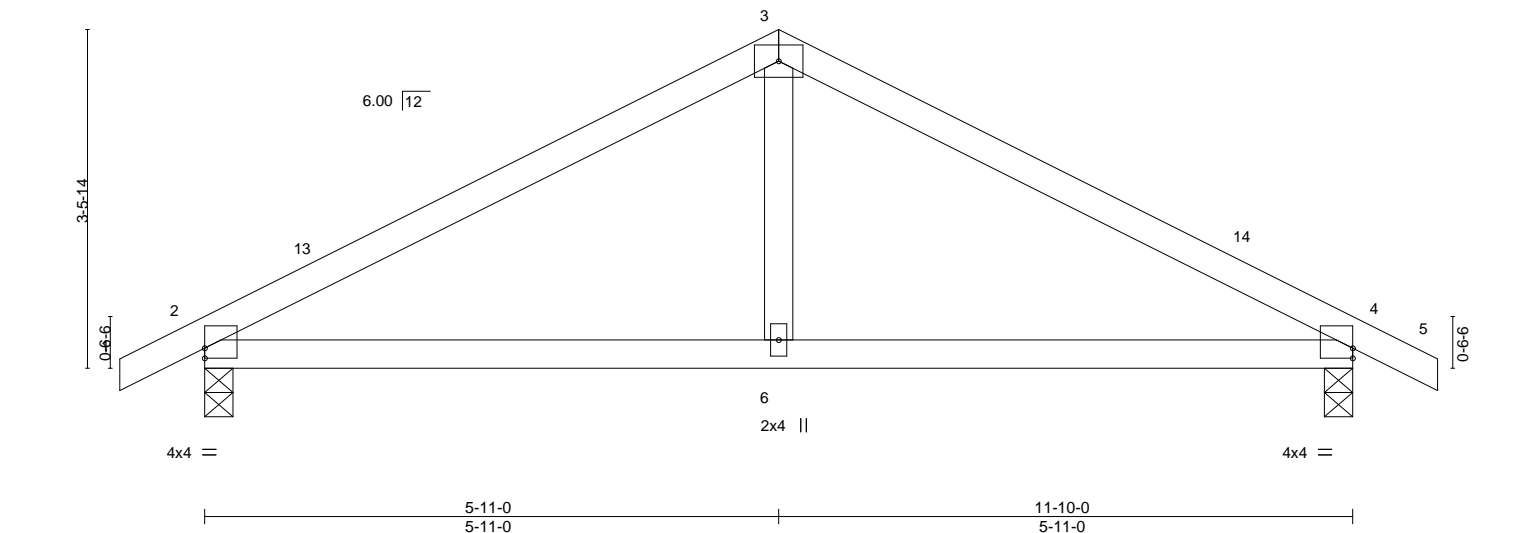


Plate Offsets (X,Y)-- [2:0-0-0,0-1-4], [4:Edge,0-1-4]		5-11-0 5-11-0		11-10-0 5-11-0	
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC 0.39	in (loc) l/defl L/d
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC 0.29	Vert(LL) -0.04 6-12 >999 240
TCDL	10.0	Rep Stress Incr	YES	WB 0.06	Vert(CT) -0.06 6-12 >999 180
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS	Horz(CT) 0.01 2 n/a n/a
BCDL	10.0				
				Weight: 34 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		

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=35(LC 11)
	Max Uplift 2=-20(LC 12), 4=-20(LC 13)
	Max Grav 2=594(LC 2), 4=594(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-720/33, 3-4=-720/33
BOT CHORD	2-6=0/566, 4-6=0/566
WEBS	3-6=0/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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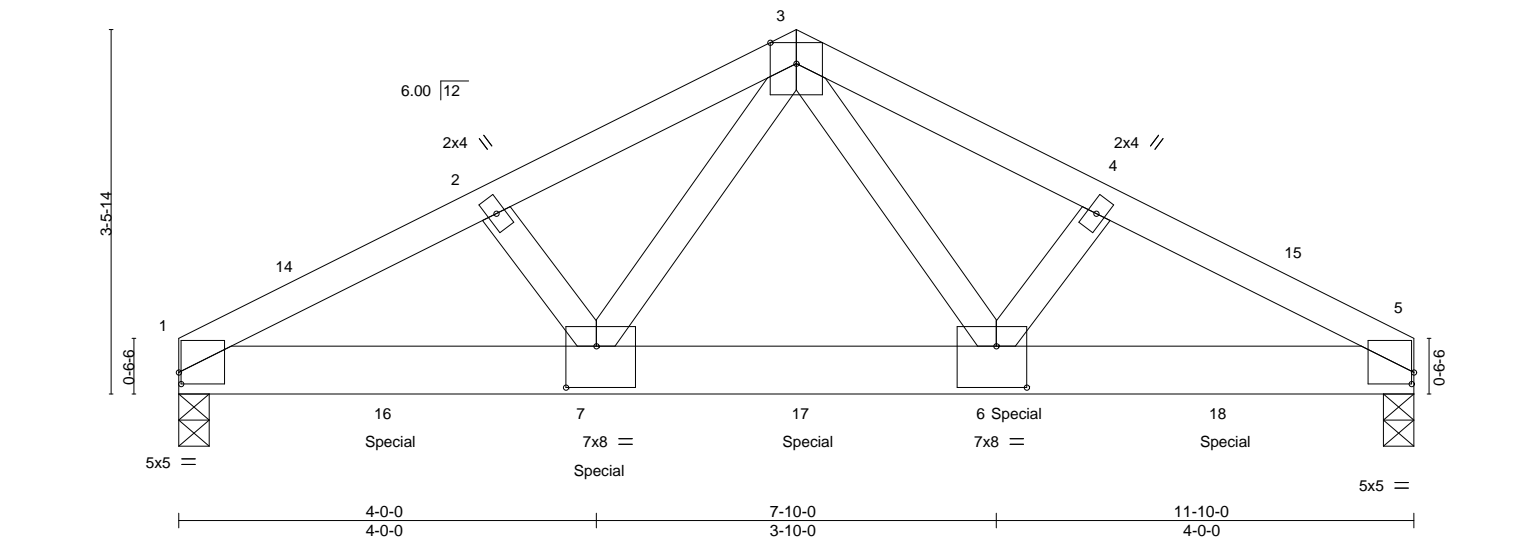
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss B3	Truss Type Common Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>	Ply 2	Summit/67 Stoney Creek I42494411
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID: 70pNcodsqKg2iw_8MnwnwzbO4d-z2n2pYp4dso4o_iYwXwQJZy6hbP8fCjzS435yfymH35 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:40 2020 Page 1 1240 s Mar 11-10-0 3-0-8		



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.07	MT20	197/144		
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.13				
TCDL	10.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 96 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-13 oc purlins.
BOT CHORD	2x6 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=30(LC 34)
 Max Uplift 1=120(LC 12), 5=122(LC 13)
 Max Grav 1=4151(LC 2), 5=4262(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-7062/214, 2-3=-6968/225, 3-4=-6971/223, 4-5=-7066/213
 BOT CHORD 1-7=-192/6261, 6-7=-105/4397, 5-6=-163/6266
 WEBS 3-6=-110/3485, 3-7=-113/3481

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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=120, 5=122.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1468 lb down and 56 lb up at 2-0-12, 1468 lb down and 56 lb up at 4-0-12, 1468 lb down and 56 lb up at 6-0-12, and 1476 lb down and 52 lb up at 8-0-12, and 1468 lb down and 56 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



August 20,2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss B3	Truss Type Common Girder	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>	Ply 2	Summit/67 Stoney Creek I42494411
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			<div> <div>240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:40 2020 Page 2</div> <div>ID:70pNcodsqKg2iw_8MhwnwzbO4d-z2n2pYp4dso4o_iYwXwQJZy6hbP8fCjzS435yfymH35</div> </div>		

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-51, 3-5=-51, 8-11=-20
- Concentrated Loads (lb)
 - Vert: 6=-1159(B) 7=-1151(B) 16=-1151(B) 17=-1151(B) 18=-1151(B)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss C1	Truss Type Common Supported Gable	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>	Ply 1	Summit/67 Stoney Creek 142494412
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		Job Reference (optional)	
-0-10-8 0-10-8		5-11-0 5-11-0		11-10-0 5-11-0	
		4x4 =		12-8-8 0-10-8	

Scale: 1/2"=1'

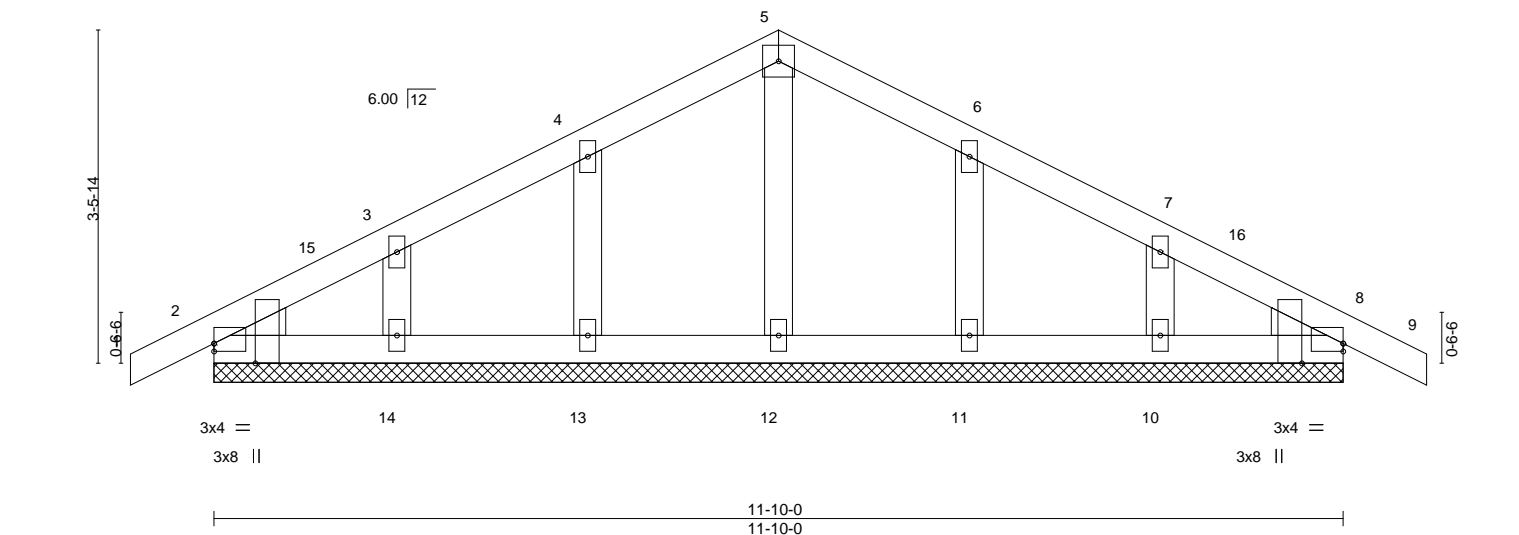


Plate Offsets (X,Y)--		[2:Edge,0-1-0], [2:0-2-8,Edge], [8:Edge,0-1-0], [8:0-2-8,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code IRC2018/TPI2014	
BCDL	10.0		
		CSL	
		TC	0.05
		BC	0.03
		WB	0.03
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.00 8 n/r 120
		Vert(CT)	-0.00 9 n/r 120
		Horz(CT)	0.00 8 n/a n/a
		PLATES	MT20
		GRIP	197/144
		Weight:	42 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		
WEDGE			
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2			

REACTIONS. All bearings 11-10-0.
 (lb) - Max Horz 2=-35(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 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.



August 20,2020

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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>		Ply	Summit/67 Stoney Creek
2423042	C2	Common Girder			2	I42494413
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	<div> <div>1240 s Mar</div> <div>9 2020 MiTek Industries, Inc.</div> <div>Wed Aug 19 13:04:43 2020</div> <div>Page 2</div> <div>ID:70pNcodsqKg2iw_8MinwnwzbO4d-NdTBSasyvnBffRQ7bgU7wBadTpSdsZUP82IIZ_ymH32</div> </div>			

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-51, 8-11=-20

Concentrated Loads (lb)

Vert: 13=-1123(F) 16=-1301(F) 17=-1229(F) 18=-1161(F) 19=-1157(F) 20=-1249(F)

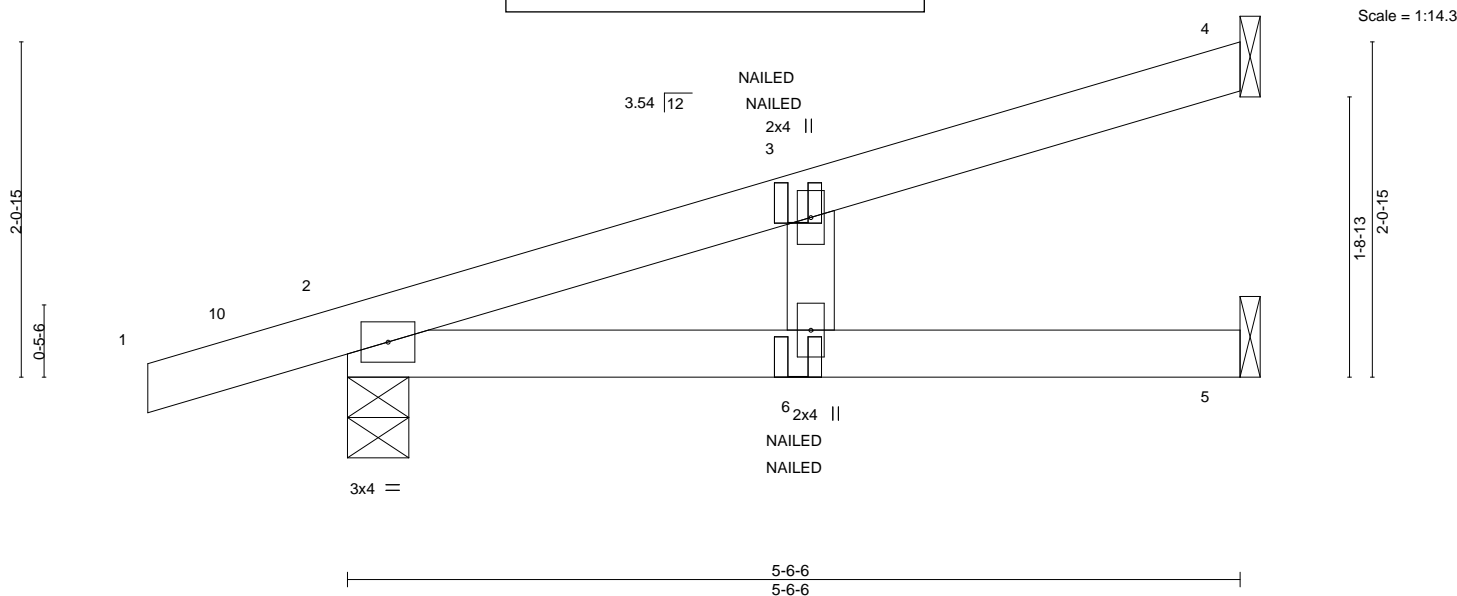
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss CJ1	Truss Type Diagonal Hip	Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:GMzSUCNITGzdVOMdJZg 08/26/2020 </div>	Summit/67 Stoney Creek 142494414 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:44 2020 Page 1 DwoymI8U-rq1Zfwtag4JWHb?J9N?MTP7orCojb6FYNi1J5RymH31
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.35	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.43	Vert(LL)	-0.07 6 >940	240			
TCCL	10.0	Lumber DOL	1.15	WB	0.01	Vert(CT)	-0.12 6 >542	180			
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.01 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 15 lb	FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=55(LC 30)
Max Uplift 4=22(LC 12), 2=42(LC 8)
Max Grav 4=151(LC 17), 2=346(LC 2), 5=100(LC 17)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- This truss 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-51, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-8(F=-4, B=-4)



August 20,2020

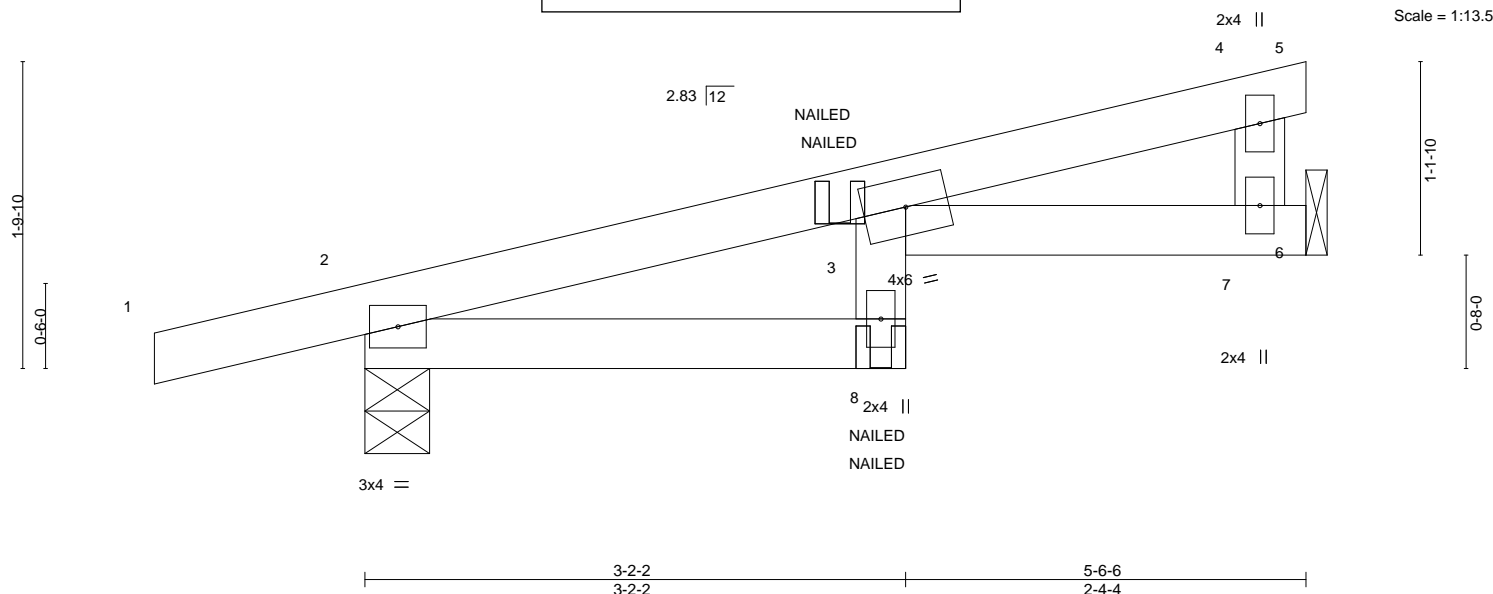
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70PncodsqKg2iw_8MirwnwzbO4d-JOaxsGtCRORNulaVi5Wb0cfuvcbQkZCibMnsdtyMH30 08/26/2020			Summit/67 Stoney Creek	I42494415
2423042	CJ2	Diagonal Hip				Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:45 2020 Page 1			
-1-2-14		3-2-2		5-6-6			
1-2-14		3-2-2		2-4-4			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.65	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.24	Vert(LL)	-0.09	8	>672	240	
TCDL	10.0	Lumber DOL	1.15	WB	0.03	Vert(CT)	-0.16	8	>385	180	
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.07	7	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 16 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 3-7.

REACTIONS.

(size) 2=0-4-9, 7=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 2=43(LC 8), 7=18(LC 12)
Max Grav 2=338(LC 17), 7=257(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-5=-51, 8-9=-20, 3-6=-20
Concentrated Loads (lb)
Vert: 8=-6(F=-3, B=-3)



August 20,2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss D1	Truss Type Roof Special	Supported Gable	Ply 1	Summit/67 Stoney Creek I42494416
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)		
0-10-8 0-10-8			10-4-8 10-4-8		
6x6			20-3-8 9-11-0		
<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>					

Scale = 1:37.8

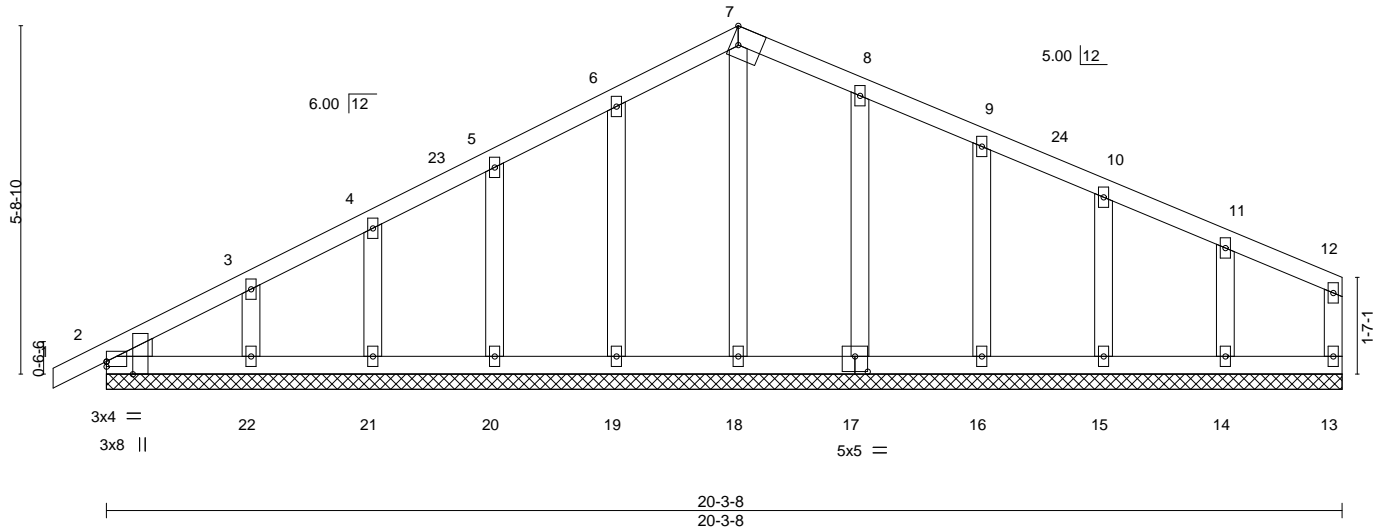


Plate Offsets (X,Y)--		[2:0-0-0,0-1-0], [2:0-2-8,Edge], [7:Edge,0-3-8], [17:0-2-8,0-3-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code IRC2018/TPI2014	
BCDL	10.0		
		CSI.	
		TC	0.05
		BC	0.03
		WB	0.06
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.00 1 n/r 120
		Vert(CT)	0.00 1 n/r 120
		Horz(CT)	0.00 13 n/a n/a
		PLATES	MT20
		GRIP	197/144
		Weight:	84 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		
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS. All bearings 20-3-8.
 (lb) - Max Horz 2=58(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 13, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 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.



August 20,2020

Job 2423042	Truss D2	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:GMzSUCNITGzdvoMdJZgDwoymI8U-kbG4VHw5kJpylCJ4OD3ldFHS9q5sXne8IJ?WDCymH2z 08/26/2020		Summit/67 Stoney Creek I42494417 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:48 2020 Page 1 woymI8U-kbG4VHw5kJpylCJ4OD3ldFHS9q5sXne8IJ?WDCymH2z
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

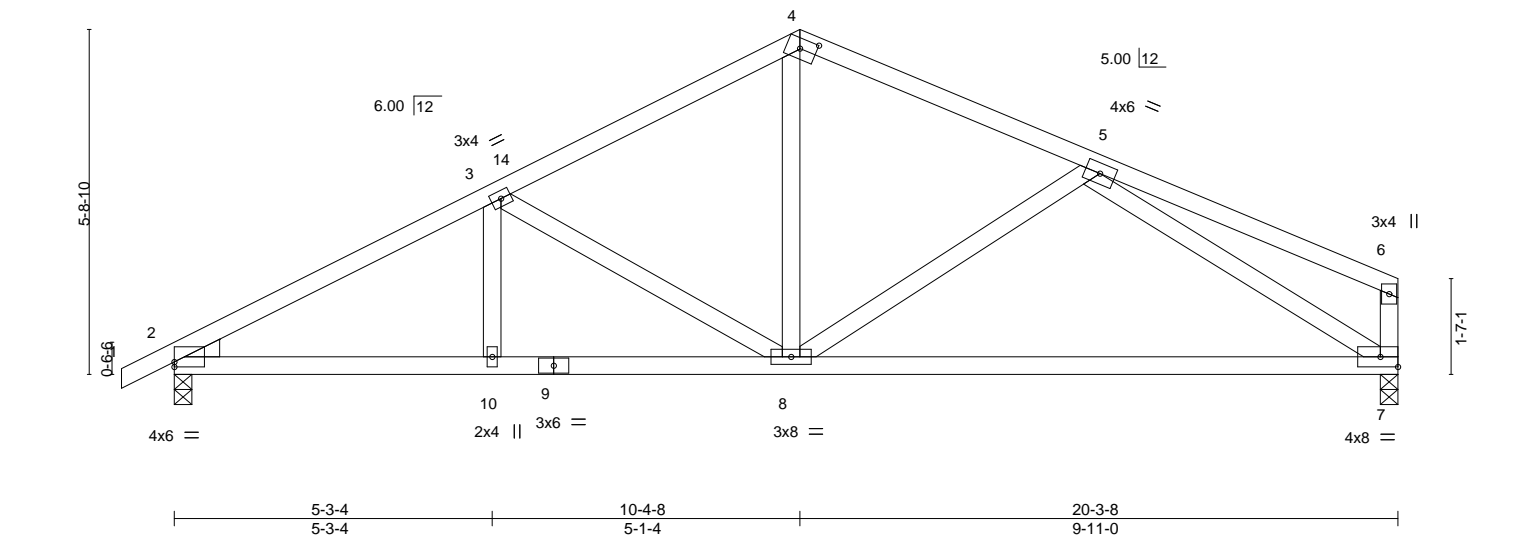


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [4:0-3-4,0-2-0]					
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC 0.40	in (loc) l/defl L/d
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC 0.67	Vert(LL) -0.22 7-8 >999 240
TCDL	10.0	Rep Stress Incr	YES	WB 0.62	Vert(CT) -0.45 7-8 >538 180
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS	Horz(CT) 0.04 7 n/a n/a
BCDL	10.0				
				Weight: 80 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		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=59(LC 14)
Max Uplift 2=30(LC 12), 7=21(LC 13)
Max Grav 2=969(LC 2), 7=905(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1502/52, 3-4=-1082/44, 4-5=-1023/51
BOT CHORD 2-10=-49/1269, 8-10=-49/1269, 7-8=-31/998
WEBS 3-8=-460/92, 4-8=0/475, 5-7=-1008/62

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

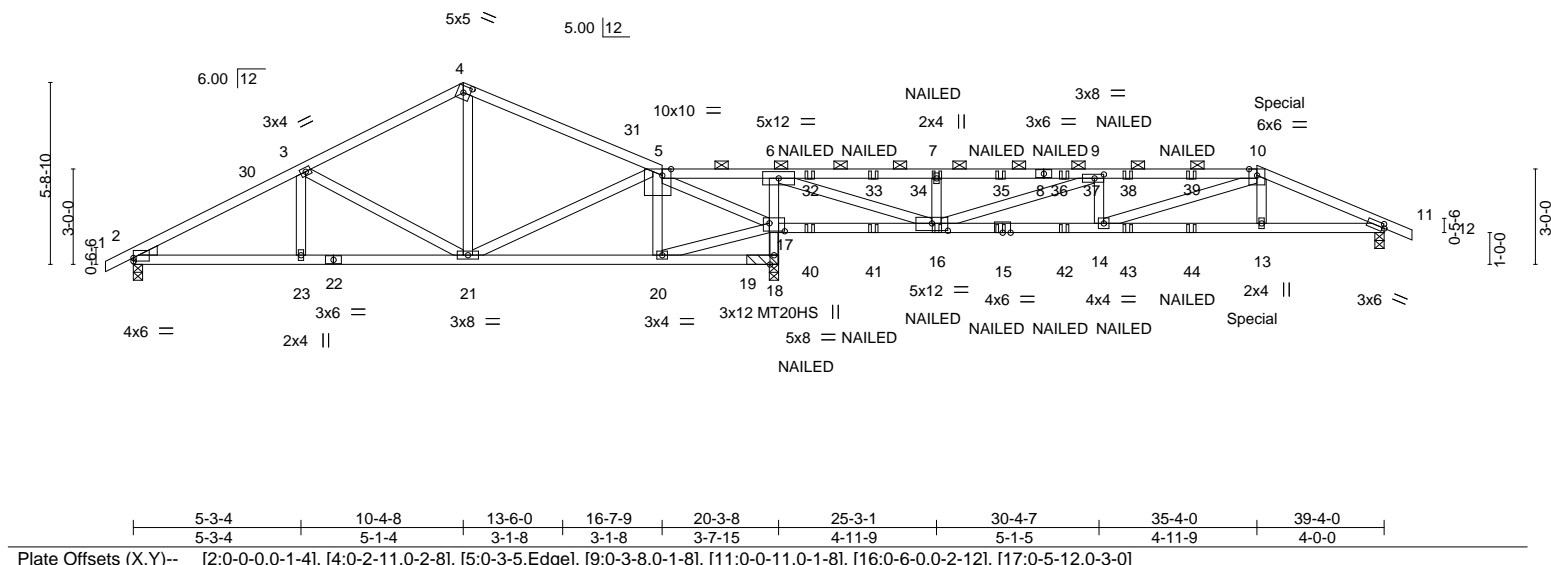


August 20,2020

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID:GMzSUCNiTGzdVOMdJZgDwvym18U-cMvBkFzboYJNEqcrd38EoS0hRPvTW0kCzkMzymH2v
 08/26/2020

Job 2423042	Truss D3	Truss Type Roof Special	Girder	Ply 1	Summit/67 Stoney Creek 142494418
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)		
-0-10-8 5-3-4 10-4-8 13-6-0 0-10-8 5-3-4 5-1-4 3-1-8			16-7-9 20-3-8 25-3-1 30-4-7 35-4-0 39-4-0 40-2-8 3-1-8 3-7-15 4-11-9 5-1-5 4-11-9 4-0-0 0-10-8		

Scale = 1:72.5



Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>			Ply	Summit/67 Stoney Creek	I42494418
2423042	D3	Roof Special	Girder			1	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			<div> <div>240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:52 2020 Page 2</div> <div>ID:GMzSUCNiTGzdVOMdJZgDwoymI8U-cMVbKfzboYJNEqcrd38Eo5S0hRPvTW0kCzkMzymH2v</div> </div>					

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 85 lb up at 35-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-51, 4-5=-51, 5-10=-61, 10-12=-51, 18-24=-20, 17-27=-20
- Concentrated Loads (lb)
- Vert: 15=-33(F) 7=-69(F) 16=-33(F) 10=-146(F) 13=-104(F) 32=-69(F) 33=-69(F) 35=-69(F) 37=-69(F) 38=-69(F) 39=-69(F) 40=-33(F) 41=-33(F) 42=-33(F) 43=-33(F) 44=-33(F)

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

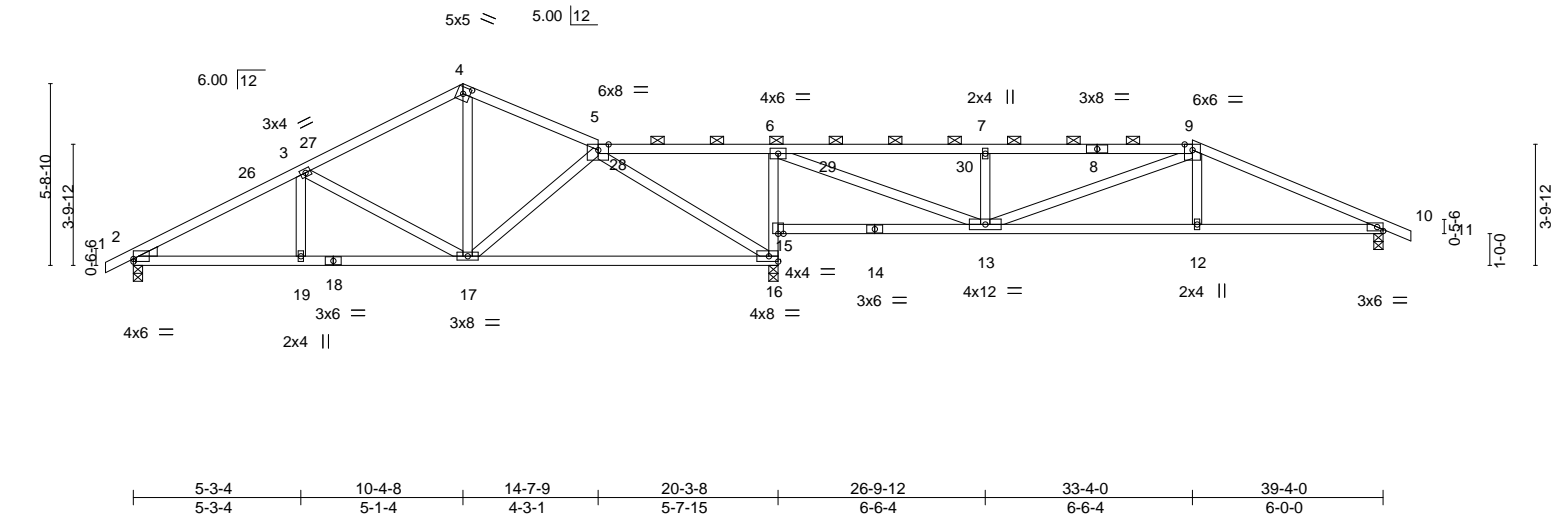
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Summit/67 Stoney Creek	142494419
2423042	D4	Roof Special			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID:GMzSUCNiTGzdvOMdJZg		240 s Mar 9 2020	MiTek Industries, Inc. Wed Aug 19 13:04:54 2020 Page 1	
-0-10-8 0-10-8	5-3-4 5-3-4	10-4-8 5-1-4	14-7-9 4-3-1	20-3-8 5-7-15	26-9-12 6-6-4	33-4-0 6-6-4	39-4-0 6-0-0
							40-2-8 0-10-8

Scale = 1:72.5



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(LL)	-0.21 16-17	>999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Vert(CT)	-0.43 16-17	>562			
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.03 16	n/a			
BCDL	10.0										
								Weight: 148 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 (3-7-2 max.): 5-9.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEDGE			
Left: 2x4 SP No.3			

REACTIONS.	
(size)	2=0-3-8, 10=0-3-8, 16=0-3-8
Max Horz	2=68(LC 12)
Max Uplift	2=-29(LC 12), 10=-52(LC 13), 16=-76(LC 13)
Max Grav	2=915(LC 2), 10=876(LC 58), 16=1877(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1394/49, 3-4=-950/41, 4-5=-913/49, 6-7=-1463/102, 7-9=-1463/102, 9-10=-1533/96
BOT CHORD	2-19=-58/1174, 17-19=-58/1174, 16-17=0/784, 15-16=-1281/94, 6-15=-1203/119, 13-15=-278/53, 12-13=-39/1347, 10-12=-37/1355
WEBS	3-17=-500/90, 4-17=0/439, 6-13=-93/1835, 7-13=-601/95, 9-12=0/252, 5-16=-1181/40

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 10, 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

Job	Truss	Truss Type	CONSTRUCTION		Ply	Summit/67 Stoney Creek	I42494420
2423042	D5	Roof Special	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES		1		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			LEE'S SUMMIT, MISSOURI		1	Job Reference (optional)	
			ID:GMzSUCNtGzdVOMdZgDwoymI8U-V7I6A006rmppjRwdsuDAyxdjc2qWPsSj7ZxxVkyMh2r			9 2020 MITek Industries, Inc. Wed Aug 19 13:04:56 2020 Page 1	
-0-10-8	5-3-4	10-4-8	12-7-9	20-3-8	25-9-12	31-4-0	39-4-0
0-10-8	5-3-4	5-1-4	2-3-1	7-7-15	5-6-4	5-6-4	8-0-0
							0-10-8

[illegible]

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 (5-7-3 max.): 5-9.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEDGE		WEBS	1 Row at midpt 5-16
Left: 2x4 SP No.3			

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 16=0-3-8
 Max Horz 2=68(LC 12)
 Max Uplift 2=-28(LC 12), 10=-52(LC 13), 16=-77(LC 13)
 Max Grav 2=914(LC 2), 10=875(LC 58), 16=1881(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1393/47, 3-4=-942/39, 4-5=-902/49, 6-8=-866/83, 8-9=-868/84, 9-10=-1360/92
 BOT CHORD 2-19=-57/1174, 17-19=-57/1174, 16-17=0/838, 15-16=-1316/109, 6-15=-1248/130,
 12-14=-19/1161, 10-12=-17/1169
 WEBS 3-17=-501/91, 4-17=-14/530, 6-14=-62/1254, 8-14=-470/73, 9-14=-443/30, 9-12=0/296,
 5-16=-1144/24

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20, 2020



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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

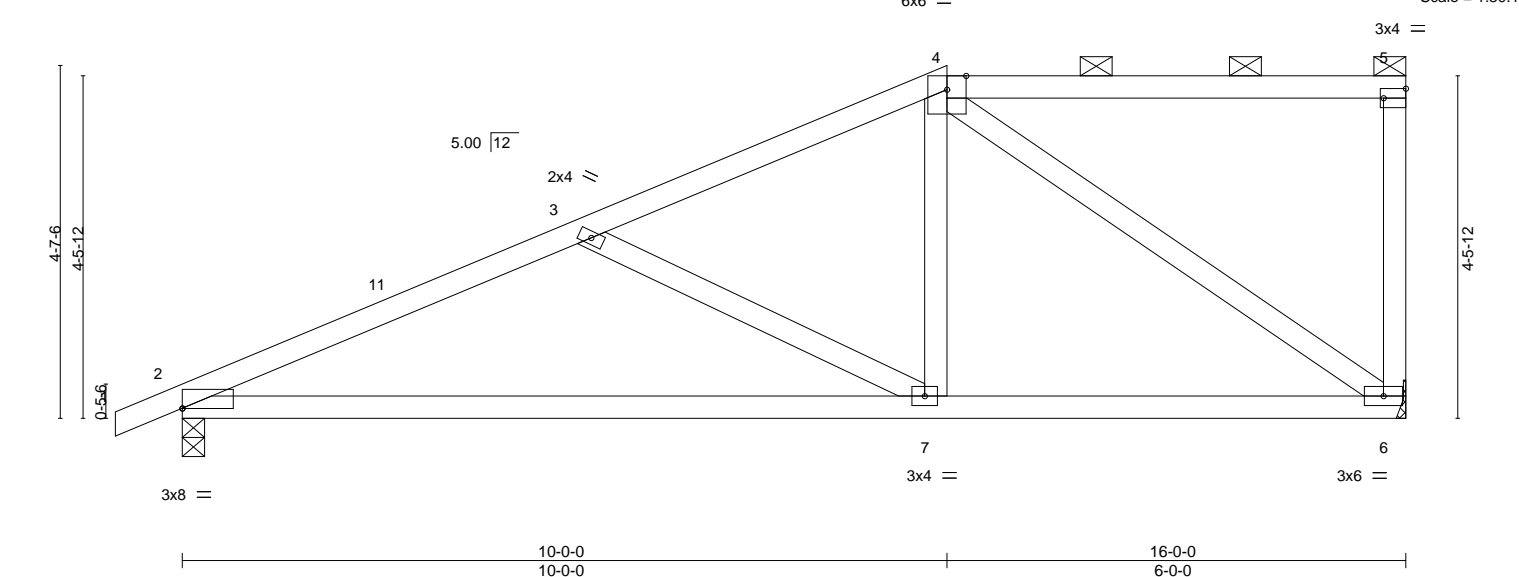
Job 2423042	Truss D6	Truss Type Half Hip	Ply 1	Summit/67 Stoney Creek Job Reference (optional) ID:GMzSUCNiTGzdvOMdJZgDwoymI8U-zKJUOM1kc4ygKbVpPckPV89zrSBZ8qATMDhV2AymH2q
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:57 2020 Page 1	

0-10-8 5-4-3 10-8-0 4-7-13

0-10-8 5-4-3

16-0-0 6-0-0

Scale = 1:30.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.17	MT20	197/144		
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.36				
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0										

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.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	2=0-3-8, 6=Mechanical
Max Horz	2=129(LC 11)
Max Uplift	2=-31(LC 12), 6=-36(LC 9)
Max Grav	2=843(LC 32), 6=712(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1292/74, 3-4=-811/29
BOT CHORD	2-7=-85/1150, 6-7=-48/680
WEBS	3-7=-568/100, 4-7=0/443, 4-6=-799/25

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

Job 2423042	Truss D7	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Summit/67 Stoney Creek 142494422 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:58 2020 Page 1 ID:GMzSUCNiTGzdVOMdJZgDwoymI8U-RWtsbi1MNO4Xyl4?zJFe1MiADraRtJCb2adymH2p
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

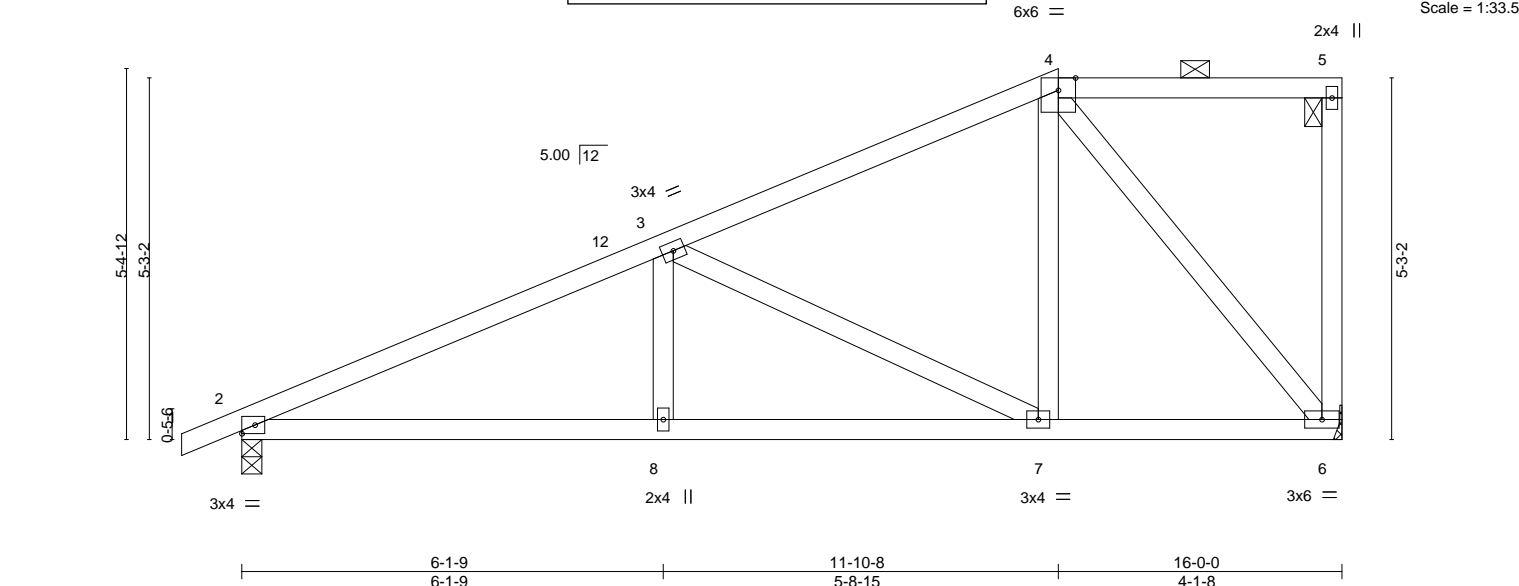


Plate Offsets (X,Y)-- [2:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0				in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.04 8-11	>999 240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.09 8-11	>999 180	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03 6	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					
								Weight: 66 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.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
 Max Horz 2=153(LC 11)
 Max Uplift 2=-34(LC 12), 6=-35(LC 9)
 Max Grav 2=875(LC 32), 6=712(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1389/57, 3-4=-603/44
 BOT CHORD 2-8=-66/1206, 7-8=-66/1206, 6-7=-48/451
 WEBS 3-7=-823/85, 4-7=0/457, 4-6=-721/35

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

Job 2423042	Truss D8	Truss Type Monopitch	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Summit/67 Stoney Creek 142494423 Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID: 70pNcdsqKg2iw_8MhwnwzbO4d-viREo2278hCOaveBX1mtaZFMiFtcsZlpXAb63ymH2o 08/26/2020		

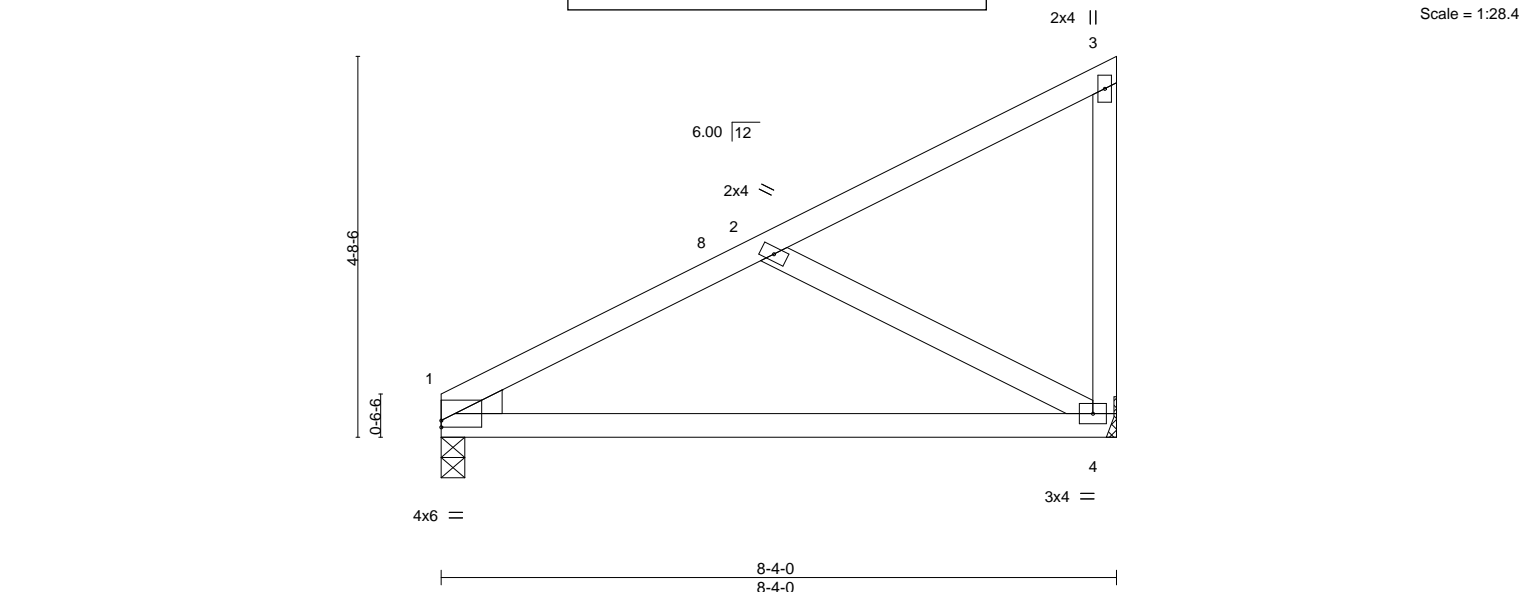


Plate Offsets (X,Y)-- [1:0-0-0,0-1-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.15	4-7	>672
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.29	4-7	>334
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	1	n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS					
BCDL	10.0								
								PLATES	GRIP
								MT20	197/144
								Weight: 31 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		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 1=0-3-8, 4=Mechanical
 Max Horz 1=126(LC 11)
 Max Uplift 1=8(LC 12), 4=-34(LC 12)
 Max Grav 1=368(LC 2), 4=386(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-432/45
 BOT CHORD 1-4=-61/367
 WEBS 2-4=-413/86

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

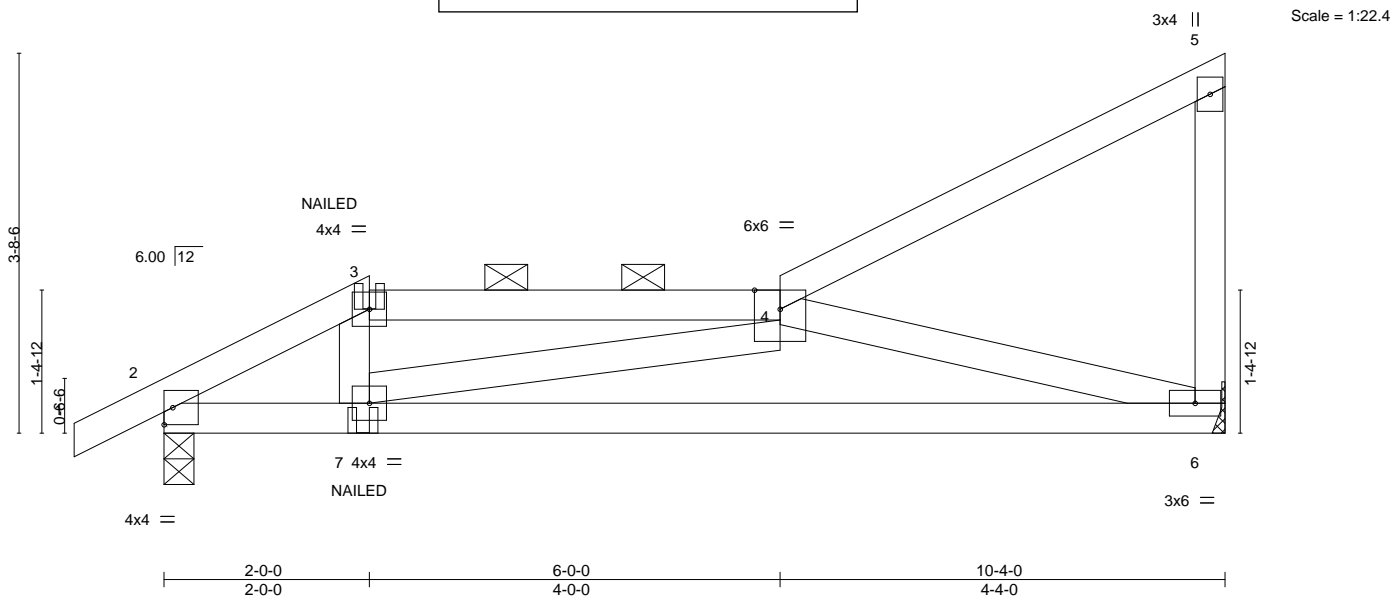
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Summit/67 Stoney Creek	I42494424
2423042	D9	Roof Special	Girder		1		
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		240 s Mar		9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:00 2020 Page 1	
-0-10-8		2-0-0		6-0-0		10-4-0	
0-10-8		2-0-0		4-0-0		4-4-0	
				08/26/2020			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.13	MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.27				
TCDL	10.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01				
BCLL	0.0	Code IRC2018/TP12014		Matrix-MS							
BCDL	10.0										
								Weight: 40 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=102(LC 11)
Max Uplift 2=28(LC 12), 6=32(LC 12)
Max Grav 2=525(LC 2), 6=456(LC 2)

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

TOP CHORD 2-3=-846/0, 3-4=-705/5
BOT CHORD 2-7=-7/728, 6-7=-90/933
WEBS 3-7=0/305, 4-6=-936/119

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-4=-61, 4-5=-51, 6-8=-20
Concentrated Loads (lb)
Vert: 3=-4(B) 7=-3(B)



August 20,2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss D10	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Summit/67 Stoney Creek I42494425 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:04:47 2020 Page 1 ID:70pNcodsqKg2iw_8MinwnwzbO4d-FOiHxvTz?h583kuqVY351IJZQrvoSc_3fGzilymH3_
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

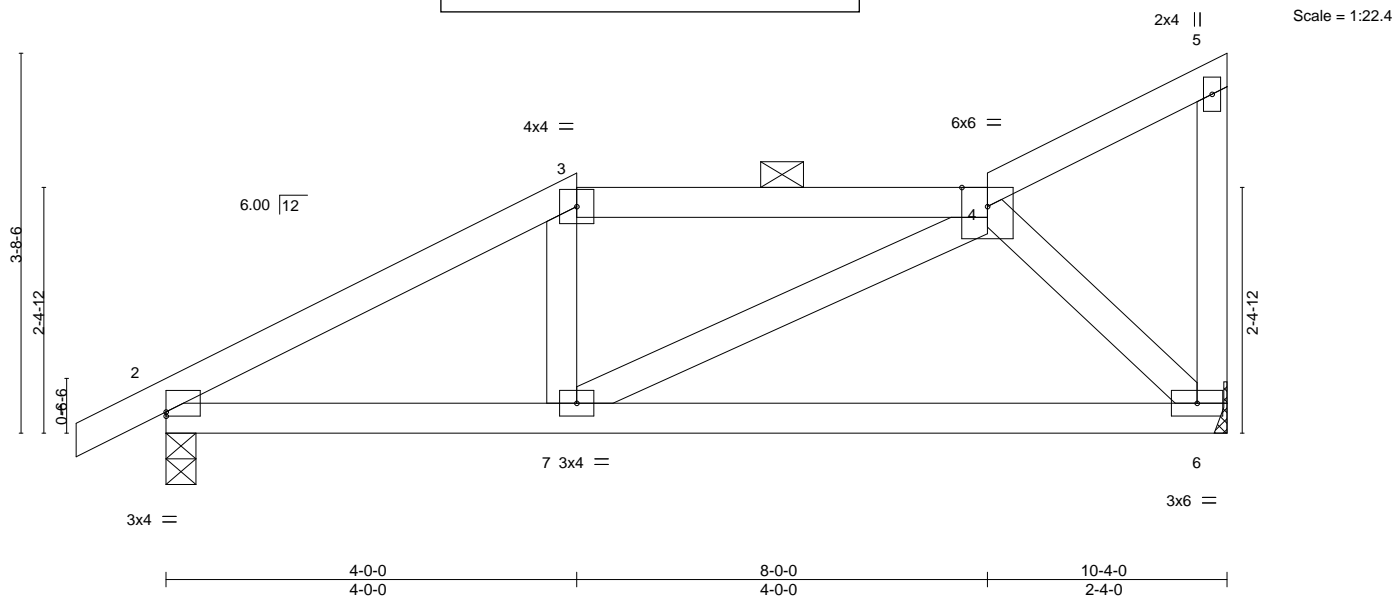


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0		TC	0.26	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.27	Vert(LL)	-0.04 6-7 >999		197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.10	Vert(CT)	-0.09 6-7 >999		
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.01 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 40 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.): 3-4.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
 Max Horz 2=102(LC 11)
 Max Uplift 2=-27(LC 12), 6=-32(LC 12)
 Max Grav 2=531(LC 35), 6=456(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-690/29, 3-4=-564/45
 BOT CHORD 2-7=-25/565, 6-7=-21/367
 WEBS 4-6=-493/67

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
2423042

Truss
E1

Truss Type
Hip Girder

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

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

08/26/2020

Ply
1

Summit/67 Stoney Creek

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:02 2020 Page 1

ID:70pNcodsqKg2iw_8MinwnwzbO4d-JH6NR45tRcaZRMNmC9KaCCsn9TqVpEvCVWVOGjOymH2l

-0-10-8
0-10-8

2-3-8
2-3-8

4-0-0
1-8-8

6-0-0
2-0-0

8-0-0
2-0-0

9-8-8
1-8-8

12-0-0
2-3-8

12-10-8
0-10-8

Scale = 1:23.1

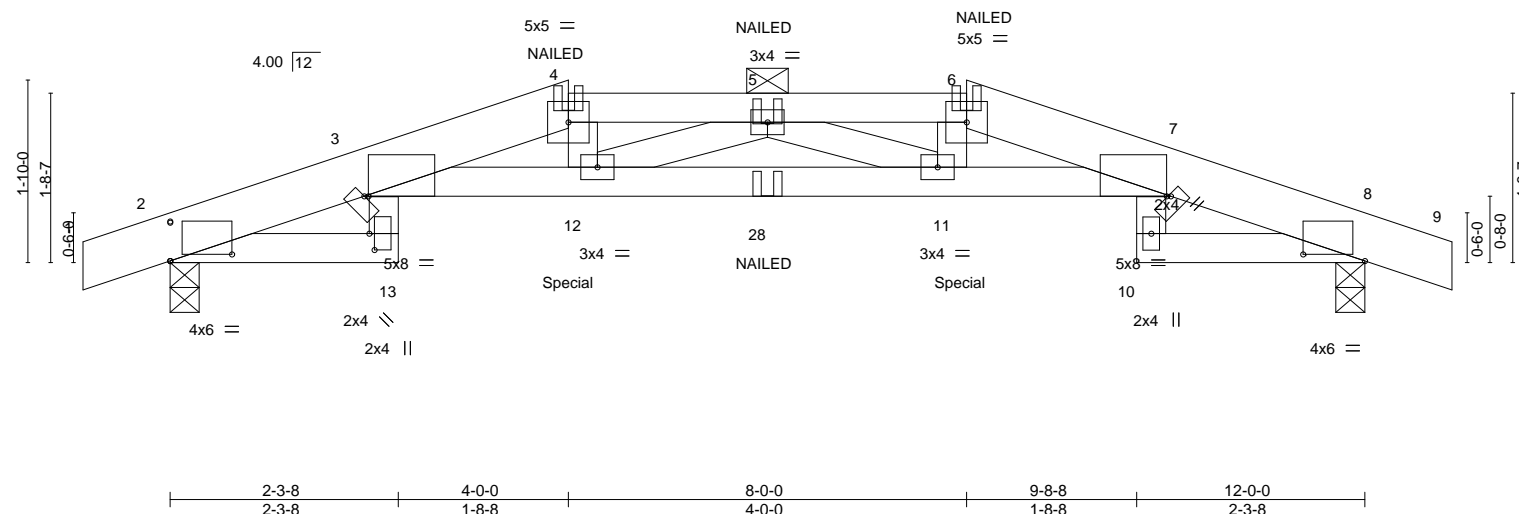


Plate Offsets (X,Y)--		[2:0-7-7,0-0-13], [2:0-3-4,0-3-4], [2:0-3-6,0-3-6], [3:0-0-8,Edge], [7:0-0-8,Edge], [8:0-7-7,0-0-13], [13:0-1-15,0-0-10]	
LOADING (psf)		SPACING	
TCLL (roof)	25.0	2-0-0	
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0	Rep Stress Incr	NO
BCDL	10.0	Code IRC2018/TPI2014	
		CSI.	
		TC	0.68
		BC	0.84
		WB	0.12
		Matrix-MS	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.21 11-12 >690 240
		Vert(CT)	-0.37 11-12 >385 180
		Horz(CT)	0.20 8 n/a n/a
		PLATES	
		MT20	197/144
		GRIP	
		Weight: 50 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 4-6: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-6 oc purlins, except
BOT CHORD	2x4 SPF No.2 *Except* 3-7: 2x4 SPF 1650F 1.5E	BOT CHORD	2-0-0 oc purlins (2-9-6 max.): 4-6.
WEBS	2x4 SPF No.2		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.		(size) 2=0-3-8, 8=0-3-8
		Max Horz 2=-15(LC 55)
		Max Uplift 2=-94(LC 8), 8=-94(LC 9)
		Max Grav 2=976(LC 35), 8=976(LC 35)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-3685/317, 4-5=-3737/323, 5-6=-3737/310, 6-7=-3685/304	
BOT CHORD	3-12=-289/3644, 11-12=-321/3883, 7-11=-272/3644	
WEBS	4-12=-35/509, 6-11=-35/509	


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 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, 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 65 lb up at 4-0-0, and 281 lb down and 65 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
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Continued on page 2

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



August 20,2020

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/26/2020</div> </div>		Ply	Summit/67 Stoney Creek	I42494426
2423042	E1	Hip Girder			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			1240 s Mar	9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:03 2020 Page 2	
					ID:70pNcodsqKg2iw_8MinwnwzbO4d-oTgleQ5VCwip3WyzmtrpkPPyvsAkYh9Lk98pFqymH2k		

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-51, 4-6=-61, 6-9=-51, 13-16=-20, 19-22=-20, 10-25=-20
- Concentrated Loads (lb)
 - Vert: 4=-50(B) 6=-50(B) 12=-281(B) 11=-281(B) 5=-45(B) 28=-52(B)

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss E2	Truss Type ROOF SPECIAL	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494427 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:04 2020 Page 1 ID:70pNcodsqKg2iw_8Minwrbzbo4d-GgE7sl67zEqgggX9KaM2Hdy7MGZuH9VVzptMnGymH2j
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

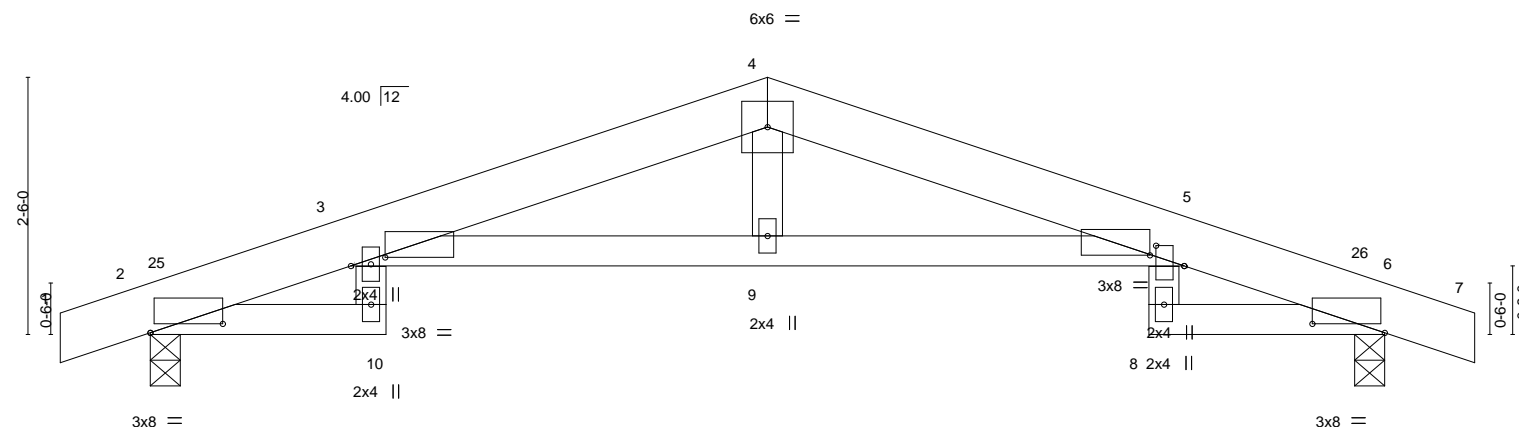


Plate Offsets (X,Y)--	[2:0-8-7,0-1-1], [2:0-0-0,0-1-5], [3:0-4-0,0-1-0], [5:0-4-0,0-1-4], [5:0-2-6,0-3-5], [6:0-8-7,0-1-1]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.12 8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.23 8 >631 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.13 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 43 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=21(LC 12)
	Max Uplift 2=-40(LC 8), 6=-40(LC 9)
	Max Grav 2=608(LC 2), 6=608(LC 2)

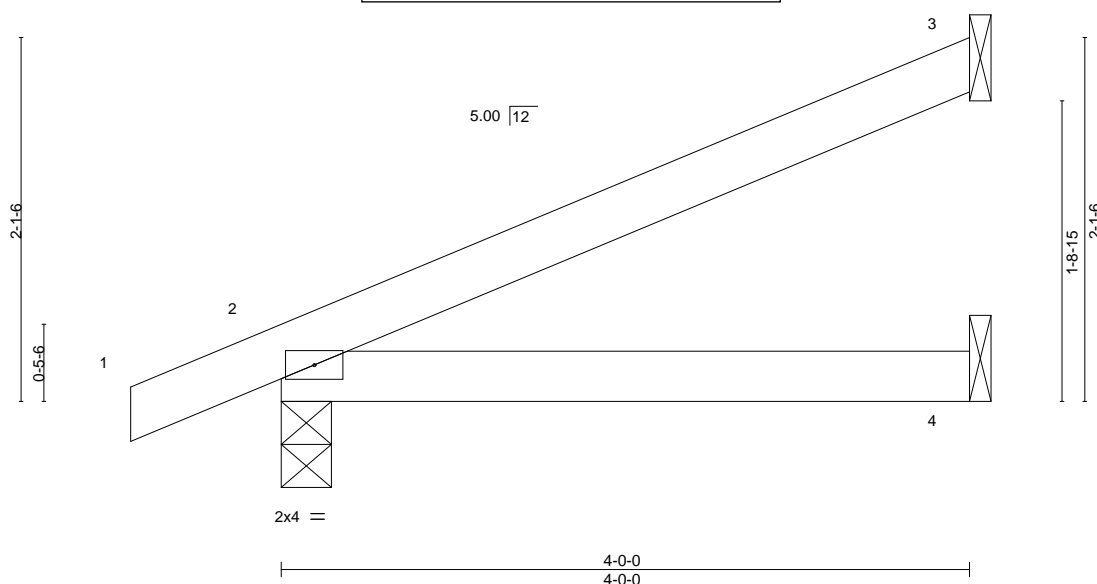
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-1391/27, 4-5=-1391/32
BOT CHORD	3-9=0/1355, 5-9=0/1355

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

Job 2423042	Truss J1	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Summit/67 Stoney Creek 142494428 Job Reference (optional) ID:GMzSUCNiTGzdvOMdJZgDwoymI8U-GgE7sl67zEqgggX9KaM2HdyE?GhIH9LVzptMnGymH2j
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:04 2020 Page 1 4-0-0 4-0-0 4-0-0		



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.21	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.15	Vert(LL)	-0.01 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.03 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							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.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=49(LC 12)
 Max Uplift 3=28(LC 12), 2=8(LC 12)
 Max Grav 3=130(LC 17), 2=265(LC 17), 4=71(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

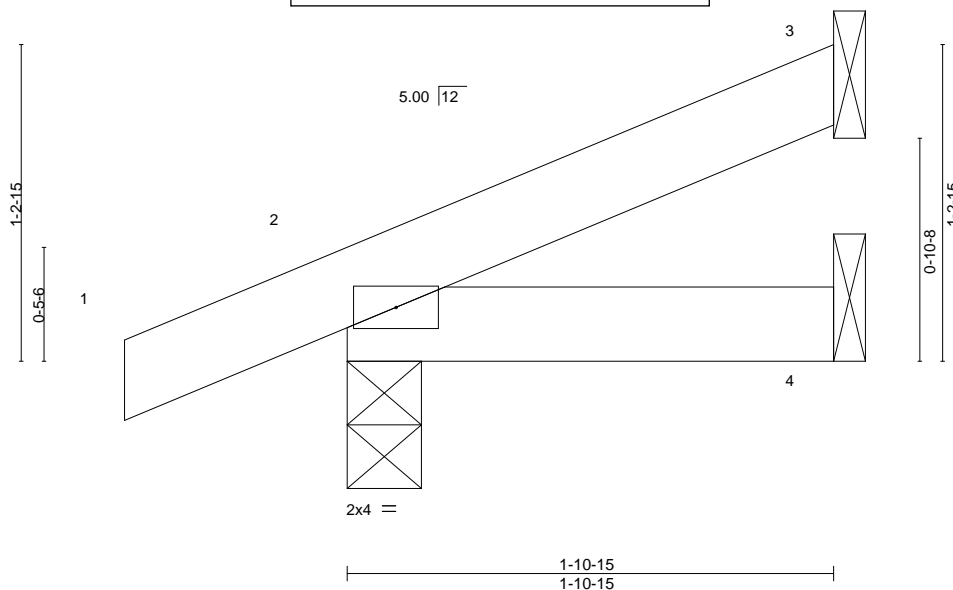
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss J2	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Summit/67 Stoney Creek 142494429 Job Reference (optional) ID:GMzSUCNiTGzdvOMdJZgDwoym18U-ksoV357kXyXlq6LtHtHqqUSFg2z0caeCTdwKjymH2i
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:05 2020 Page 1 08/26/2020		



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.05	in (loc)	l/defl	MT20		197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00 7 >999				
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 7 >999				
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a				
BCDL	10.0	Code IRC2018/TP12014									
								Weight: 6 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 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=28(LC 12)
Max Uplift 3=-12(LC 12), 2=-15(LC 8)
Max Grav 3=50(LC 17), 2=162(LC 17), 4=33(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

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

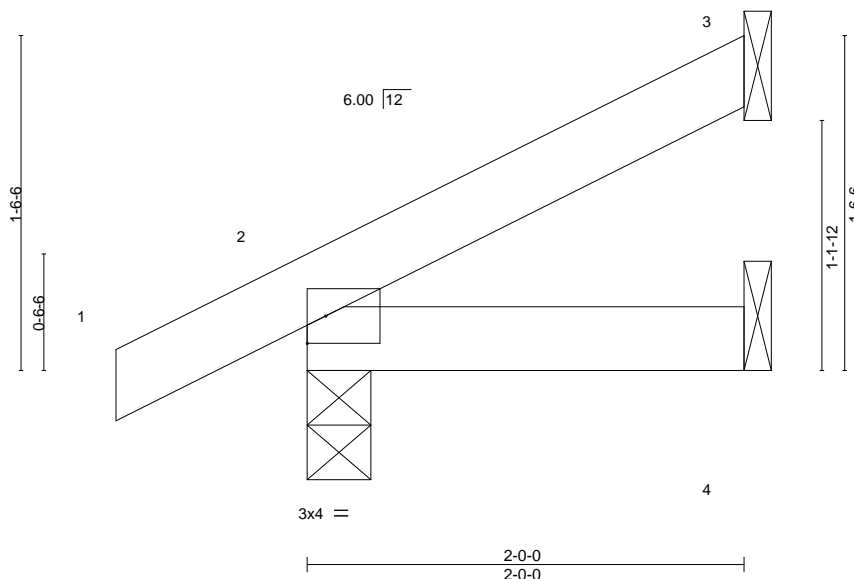
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 2423042	Truss J3	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Summit/67 Stoney Creek 142494430 Job Reference (optional) ID:70pNc0dsqKg2iw_8MinwnwzbO4d-ksoV357IkXyXlq6LtHtHqqUSDg2u0caeCTdwKjymH2i
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:05 2020 Page 1 -0-10-8 0-10-8 2-0-0 2-0-0		

Scale = 1:10.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.05	in (loc)	l/defl	MT20		197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.03	Vert(LL)	-0.00 7 >999				
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 4-7 >999				
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a				
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 6 lb FT = 20%			

LUMBER-

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

BRACING-

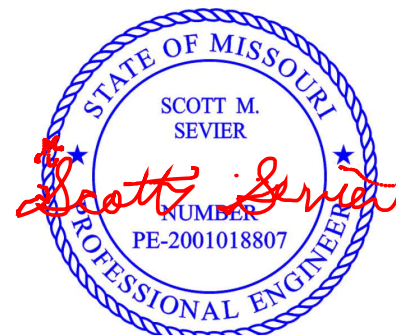
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=34(LC 12)
Max Uplift 3=-16(LC 12), 2=-5(LC 12)
Max Grav 3=57(LC 17), 2=170(LC 17), 4=35(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

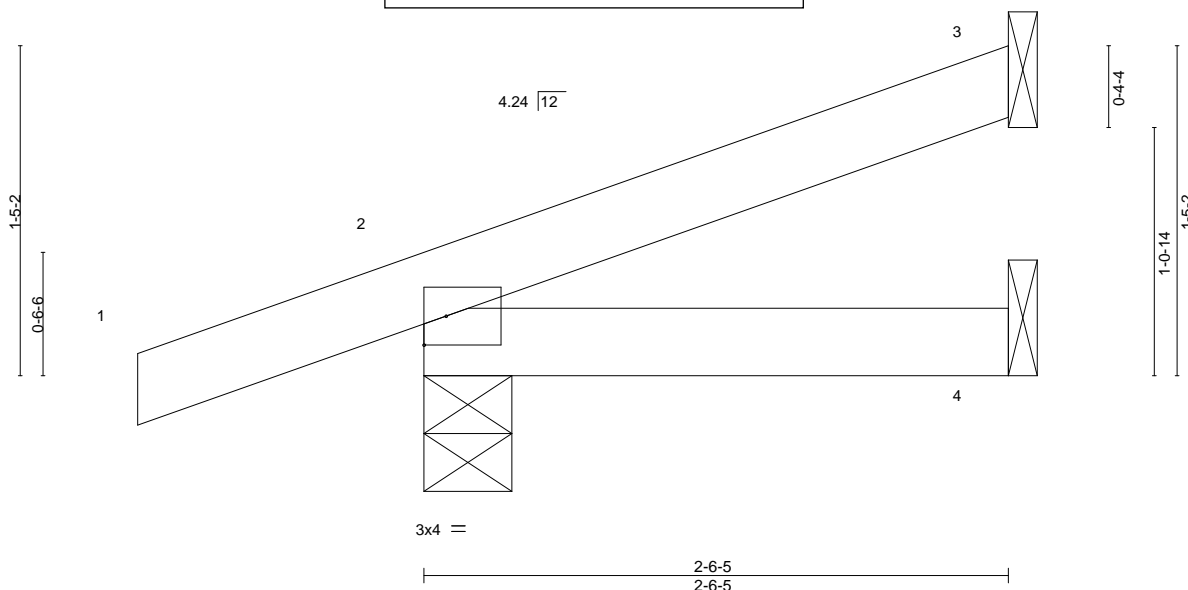
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 2423042	Truss J4	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70pNcodsqKg2iw_8MinwnwzbO4d-C2MuGR8OVr4OwzhYR?OWM21cE4Oul3qnR7MTs9ymH2h 08/26/2020		Summit/67 Stoney Creek 142494431 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:06 2020 Page 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			



Scale = 1:10.0

LOADING (psf)		SPACING-		CSI.		DEFL.		I/defl		L/d		PLATES	GRIP
TCLL (roof)	25.0	2-0-0		TC	0.10	in	(loc)					MT20	197/144
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.04	Vert(LL)	-0.00	4-7	>999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00	4-7	>999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014										Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=39(LC 8)
Max Uplift 3=-16(LC 12), 2=-40(LC 8)
Max Grav 3=67(LC 17), 2=224(LC 17), 4=43(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

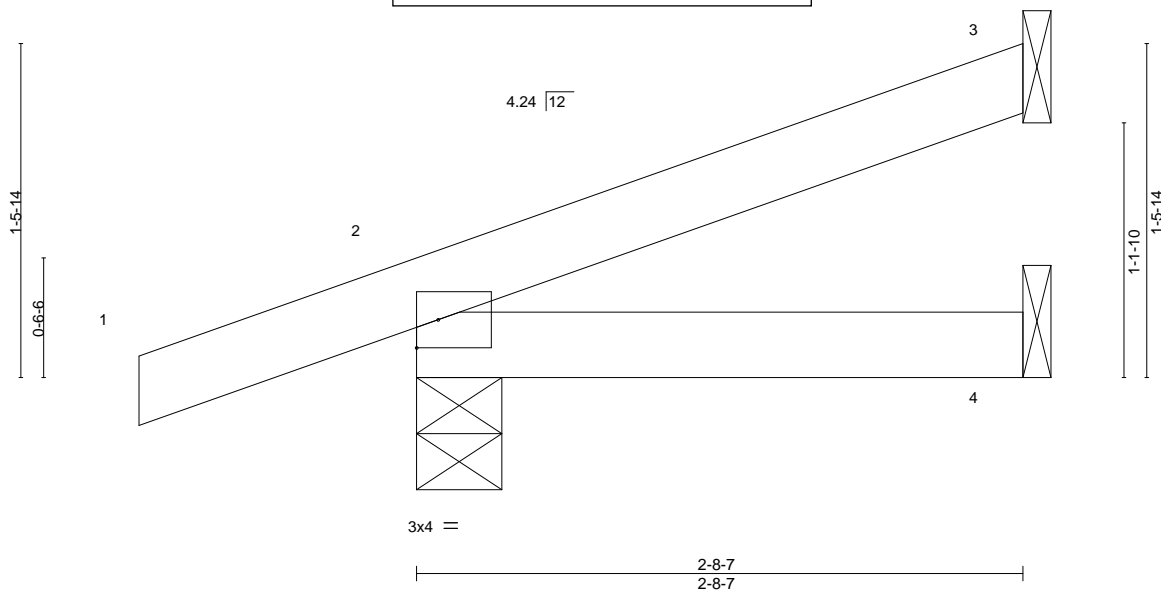
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss J5	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Summit/67 Stoney Creek 142494432 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:07 2020 Page 1 ID:70pNcodsqKg2iw_8MinwzboO4d-gFvGUUn80G9CFX7Gk?ivlvFanzUk0UW4xfn60ObymH2g
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.10	in (loc)	l/defl	L/d			
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.05	Vert(LL)	-0.00 4-7 >999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014							Weight: 8 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=40(LC 8)
Max Uplift 3=-17(LC 12), 2=-40(LC 8)
Max Grav 3=74(LC 17), 2=232(LC 17), 4=46(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

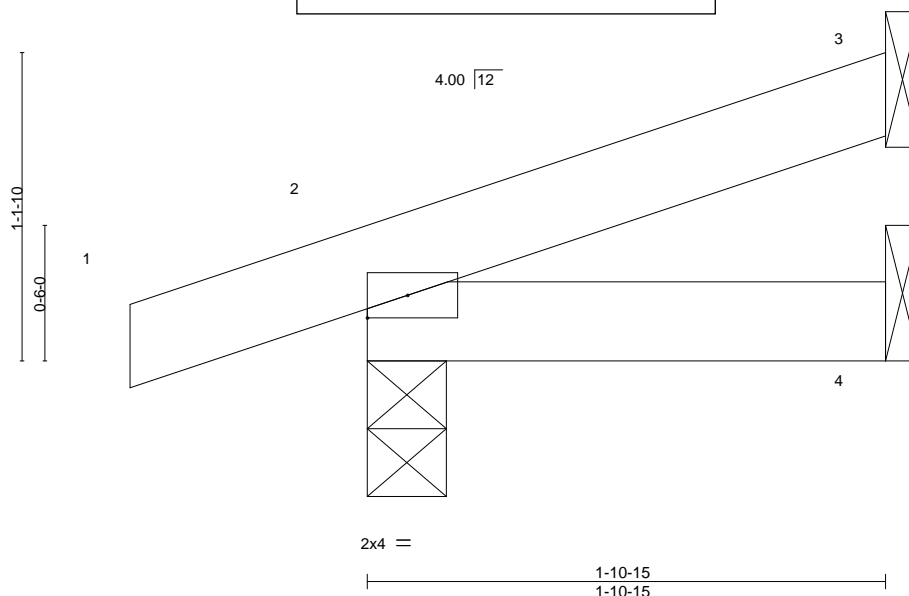
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss J7	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70pNcodsqKg2iw_8MinwhwzbO4d-8RTeh79e1SK69HrwZQQ_RT6zWt4fDzK4uRraw1ymH2f 08/26/2020		Summit/67 Stoney Creek I42494434 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:08 2020 Page 1 hzwzbo4d-8RTeh79e1SK69HrwZQQ_RT6zWt4fDzK4uRraw1ymH2f
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.05	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00 7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014							Weight: 6 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 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=27(LC 8)
Max Uplift 3=-12(LC 12), 2=-28(LC 8)
Max Grav 3=51(LC 2), 2=161(LC 2), 4=33(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2423042	Truss LG1	Truss Type GABLE	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494435 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:09 2020 Page 1 ID:GMzSUCNiTGzdvOMdJZgDwvymI8U-cd10vTAGomSznRP667yD_gf8aHQsyQoE75b7TUymH2e
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

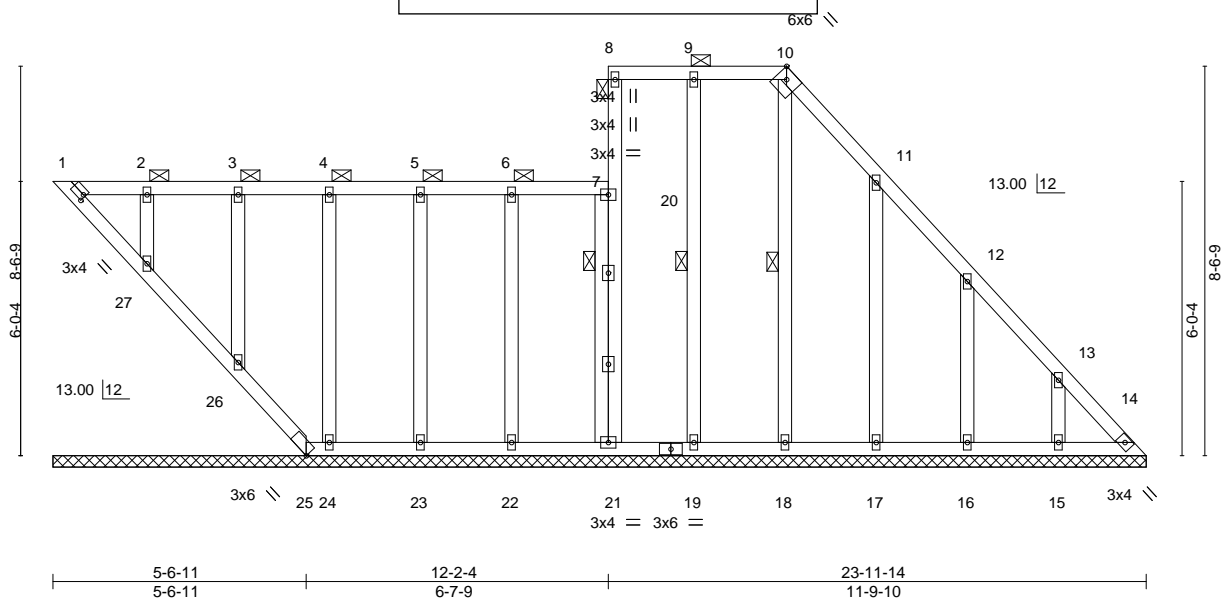


Plate Offsets (X,Y)-- [1:0-0-10,0-1-8], [10:0-2-9,Edge]					
LOADING (psf)		SPACING-	1-0-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL (roof) 25.0		Plate Grip DOL	1.15	TC 0.03	Vert(LL) n/a - n/a 999
Snow (Pf/Pg) 20.4/20.0		Lumber DOL	1.15	BC 0.03	Vert(CT) n/a - n/a 999
TCDL 10.0		Rep Stress Incr	YES	WB 0.05	Horz(CT) 0.01 14 n/a n/a
BCLL 0.0		Code IRC2018/TPI2014		Matrix-S	
BCDL 10.0					
				PLATES MT20	
				GRIP 197/144	
				Weight: 132 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 2'-0-0 oc purlins (6'-0-0 max.): 1-7, 8-10.
BOT CHORD 2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing, Except: 6'-0-0 oc bracing: 1-27.
WEBS 2x4 SPF No.2		WEBS	1 Row at midpt 8-21, 10-18, 9-19
OTHERS 2x4 SPF No.2			

REACTIONS. All bearings 23-11-14.
 (lb) - Max Horz 1=105(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 14, 15, 16, 17, 18, 19, 22, 23, 24, 26, 27 except 25=106(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 21, 14, 25, 15, 16, 17, 18, 19, 22, 23, 24, 26, 27

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 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, 21, 14, 15, 16, 17, 18, 19, 22, 23, 24, 26, 27 except (jt=lb) 25=106.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 26, 27.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 20,2020

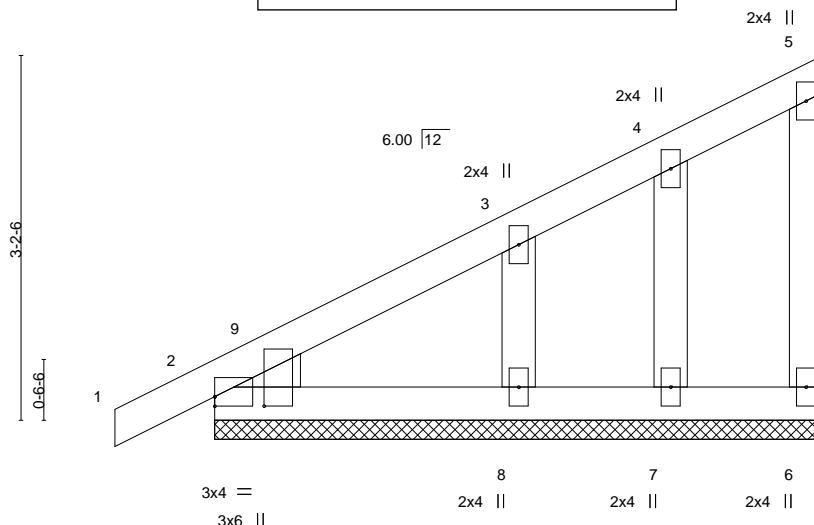
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss M1	Truss Type Monopitch Supported Gable	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>	Ply 1	Summit/67 Stoney Creek 142494436
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	ID: 70pNcdsqKg2iw_8MinwzwbO4d-4qbO6pBuY4aqOb_JgrTSXuCIQhmohtRNLkKh?wymH2d 240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:10 2020 Page 1		



Scale = 1:20.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r	120		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 5-4-0.
 (lb) - Max Horz 2=86(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=251(LC 17)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.



August 20,2020

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2423042	Truss M2	Truss Type Monopitch	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494437 Job Reference (optional) ID:70pNcodsqKg2iw_8MinwnwzbO4d-Z09nK9BWJNih0IZVEY_h35kO252TQK4XaO4EXMymH2c
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:11 2020 Page 1 0-10-8 0-10-8 5-4-0 5-4-0		

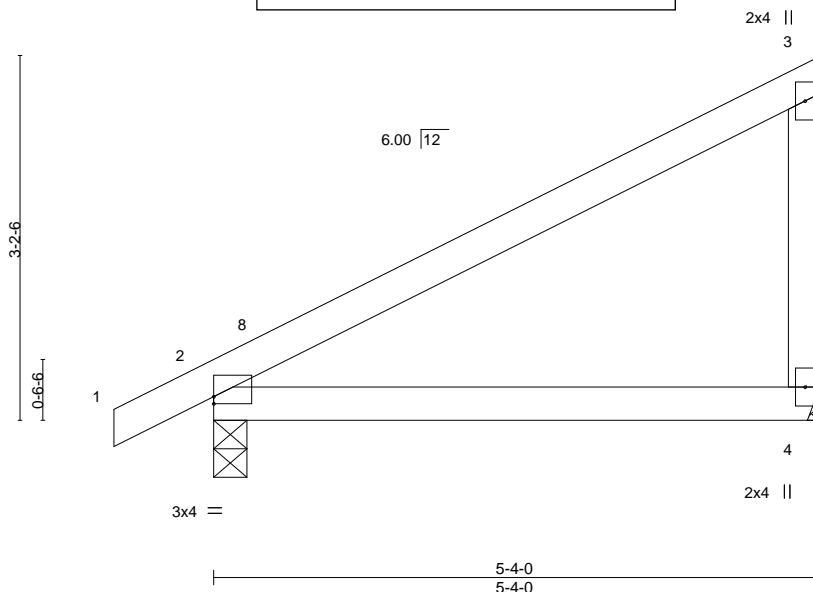


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.04	4-7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.08	4-7	>791	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 17 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=87(LC 11)
Max Uplift 4=-21(LC 12), 2=-12(LC 12)
Max Grav 4=254(LC 17), 2=300(LC 2)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

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

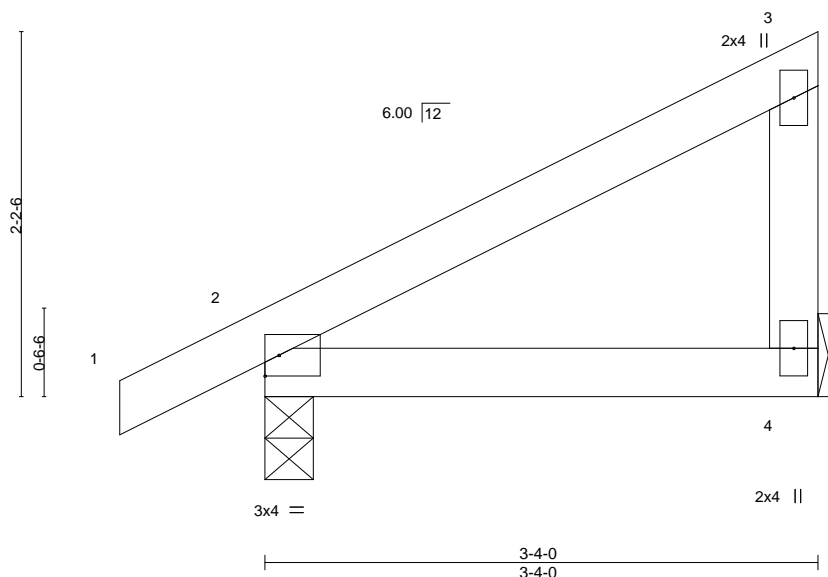
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 2423042	Truss M3	Truss Type Monopitch	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70pNcodsqKg2iw_8MinwnwzbO4d-Z09nK9BWJNih0IZVEY_h35kSJ55MQK4XaO4EXMymH2c 08/26/2020		Summit/67 Stoney Creek I42494438 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:11 2020 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			240 s Mar 3-4-0 3-4-0		

Scale = 1:13.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.14	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.09	Vert(LL)	-0.00 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.01 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014							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 3-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8
 Max Horz 2=58(LC 11)
 Max Uplift 4=-13(LC 12), 2=-10(LC 12)
 Max Grav 4=145(LC 17), 2=231(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



August 20,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
2423042	M4	Half Hip Girder	AS NOTED ON PLANS REVIEW		Ply 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	DEVELOPMENT SERVICES		Summit/67 Stoney Creek
			LEE'S SUMMIT, MISSOURI		I42494439
			ID:70pNcodsqKg2iw_8MinwhwzbO4d-VPHXkqDnr?zPF2juLz098WqpGuhQuEEp2iZLcFymH2a		Job Reference (optional)
			08/26/2020		9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:13 2020 Page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-4(B) 4=-23(B) 5=-10(B) 6=-6(B)

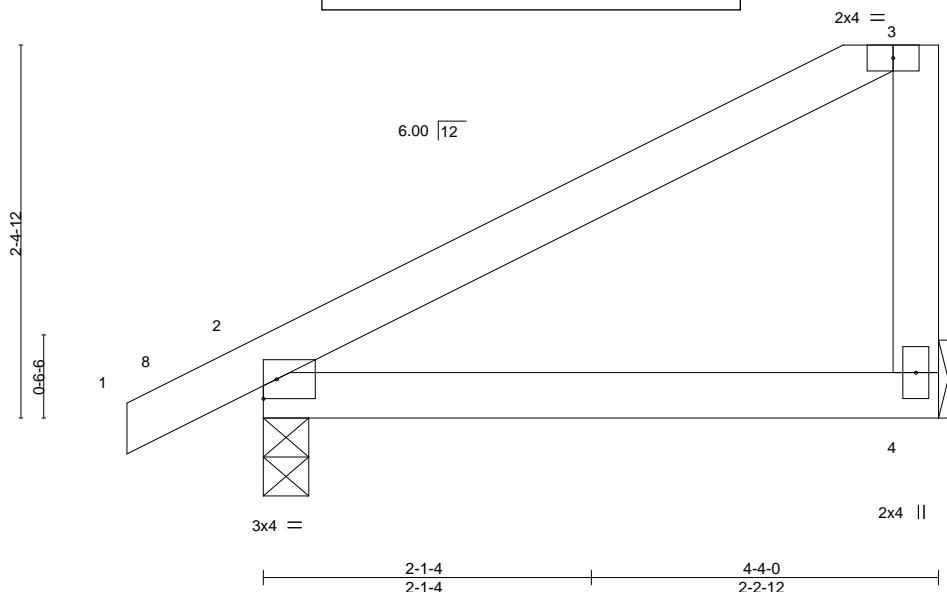
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply	Summit/67 Stoney Creek	I42494440
2423042	M5	Half Hip			1		
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID:70pNcdsqKg2iw_8Minwzbo4d-VPHXkqDnr?zPF2juLz098WqmwulVuEZp2iZLcFymH2a		Job Reference (optional)	
				1240 s Mar 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:13 2020 Page 1			
				4-0-0		4-4-0	
				4-0-0		0-4-0	



Scale = 1:14.8

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.02	MT20		197/144	
Snow (Pt/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0										
								Weight: 14 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8
 Max Horz 2=72(LC 11)
 Max Uplift 4=-17(LC 12), 2=-11(LC 12)
 Max Grav 4=203(LC 17), 2=272(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



August 20,2020

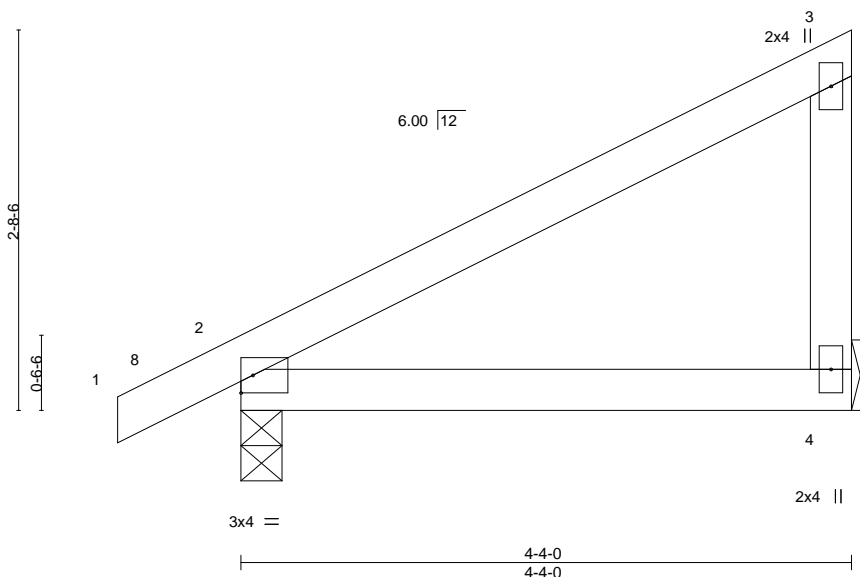
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020		Ply	Summit/67 Stoney Creek	I42494441
2423042	M6	Monopitch			1	Job Reference (optional)	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID:70pNcodsqKg2iw_8MhwnwzbO4d-zbrvyAEPcl5GtC14vgXOhkMxgl5kdhpzGMLu8hymH2Z		9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:14 2020 Page 1	



Scale = 1:16.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.26	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pt/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.17	Vert(LL)	-0.02 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.03 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.01 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 14 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8
 Max Horz 2=72(LC 11)
 Max Uplift 4=-17(LC 12), 2=-11(LC 12)
 Max Grav 4=203(LC 17), 2=272(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



August 20,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

Job 2423042	Truss M7	Truss Type Monopitch	Ply 1	Summit/67 Stoney Creek 142494442
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)	

ID: 70pNcodsqKg2iw_8MirwnwzbO4d-zbrvyAEPcl5GtCl4vgXOhkMyHI5AdhpzGMLu8hymH2Z
 10-9
 4-0-0

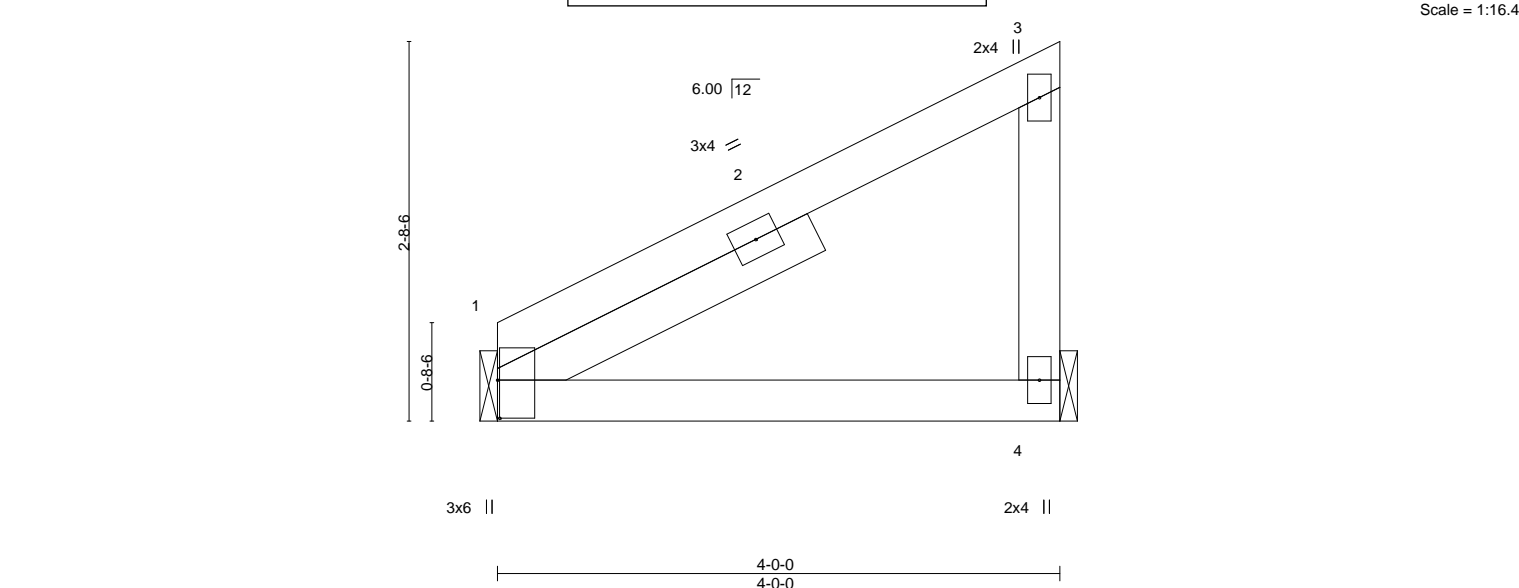


Plate Offsets (X,Y)--		[1:0-3-4,0-0-3]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.23
		BC	0.14
		WB	0.00
		Matrix	AS
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.01 4-7 >999 240
		Vert(CT)	-0.02 4-7 >999 180
		Horz(CT)	0.01 1 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 15 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 2-6-0		

REACTIONS. (size) 1=Mechanical, 4=Mechanical
 Max Horz 1=65(LC 11)
 Max Uplift 1=-2(LC 12), 4=-18(LC 12)
 Max Grav 1=185(LC 16), 4=185(LC 16)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 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) 1, 4.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 20,2020

Job 2423042	Truss M8	Truss Type Monopitch	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:70pNcodsqKg2iw_8Minwnwzbo4d-RnOH9WF1NcD7VMtGTO2dDxvAkiTFM836V02Sg8ymH2Y 08/26/2020		Summit/67 Stoney Creek 142494443 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:15 2020 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			-0-10-8 0-10-8 2-0-0 2-0-0		

Scale = 1:9.7

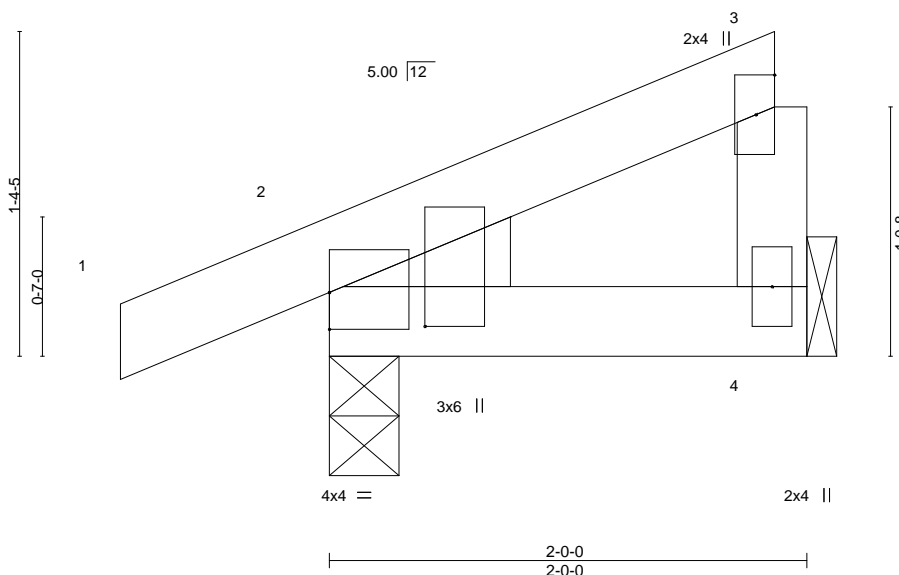


Plate Offsets (X,Y)-- [2:0-0-0,0-1-14], [2:0-1-11,0-4-13]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00 7	>999	240
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 7	>999	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 2	n/a	n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MP					
BCDL	10.0								
								PLATES	GRIP
								MT20	197/144
								Weight: 7 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		
WEDGE			
Left: 2x4 SPF No.2			

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=34(LC 11)
 Max Uplift 4=7(LC 9), 2=18(LC 8)
 Max Grav 4=69(LC 17), 2=160(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



August 20,2020

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

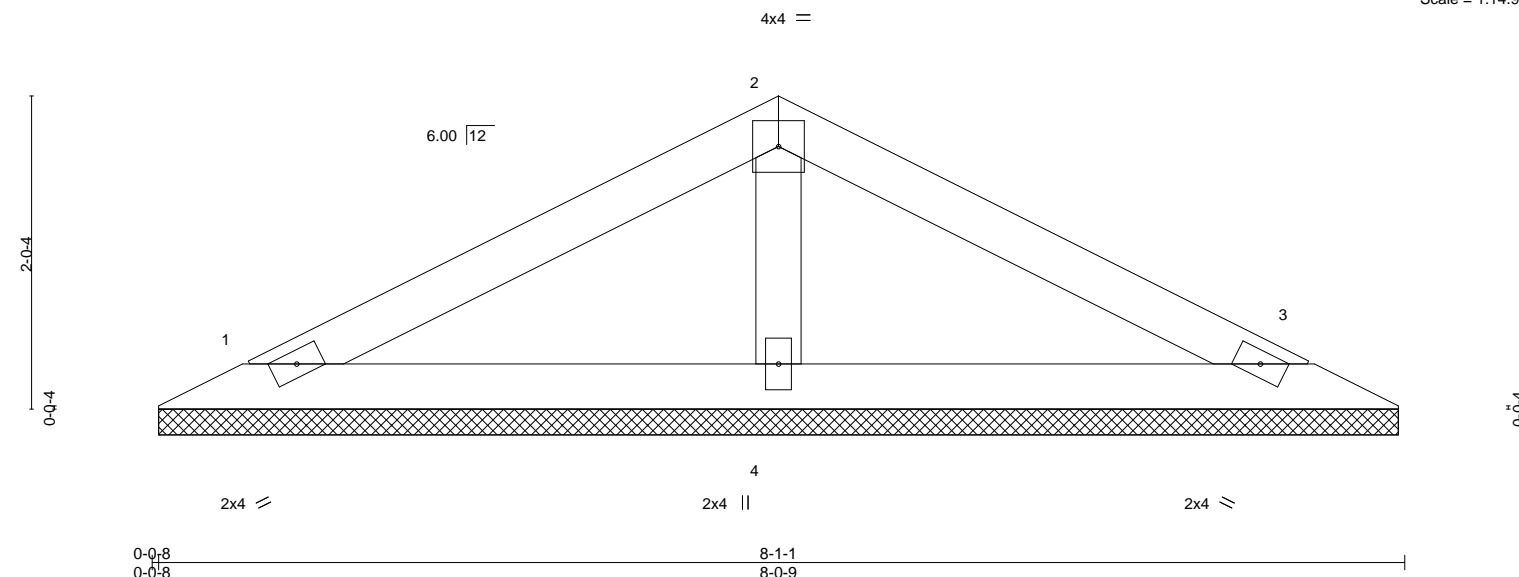
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 2423042	Truss V1	Truss Type Valley	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2020 </div>		Summit/67 Stoney Creek 142494444 Job Reference (optional) ID:70pNcdsqKg2iw_8Minwzbo4d-v_yfNsFf8wLz6WST05asm8Slm6oM5asGkgn?DaymH2X
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:16 2020 Page 1 4-0-8 4-0-8 8-1-1 4-0-8	

Scale = 1:14.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	MT20		197/144	
Snow (Pt/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0										
								Weight: 19 lb		FT = 20%	

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

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

REACTIONS. (size) 1=8-0-1, 3=8-0-1, 4=8-0-1
 Max Horz 1=17(LC 11)
 Max Uplift 1=14(LC 12), 3=17(LC 13)
 Max Grav 1=161(LC 16), 3=161(LC 17), 4=302(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 20,2020

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/26/2020

Job 2423042	Truss V2	Truss Type Valley	Ply 1	Summit/67 Stoney Creek I42494445
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)	
<div style="display: flex; justify-content: space-between;"> ID:70pNcdsqKg2iw_8MinwhzbO4d-v_yfNsFf8wLz6WST05asm8SLo6od5aJGkgn?DaymH2X 9 2020 MiTek Industries, Inc. Wed Aug 19 13:05:16 2020 Page 1 </div>				

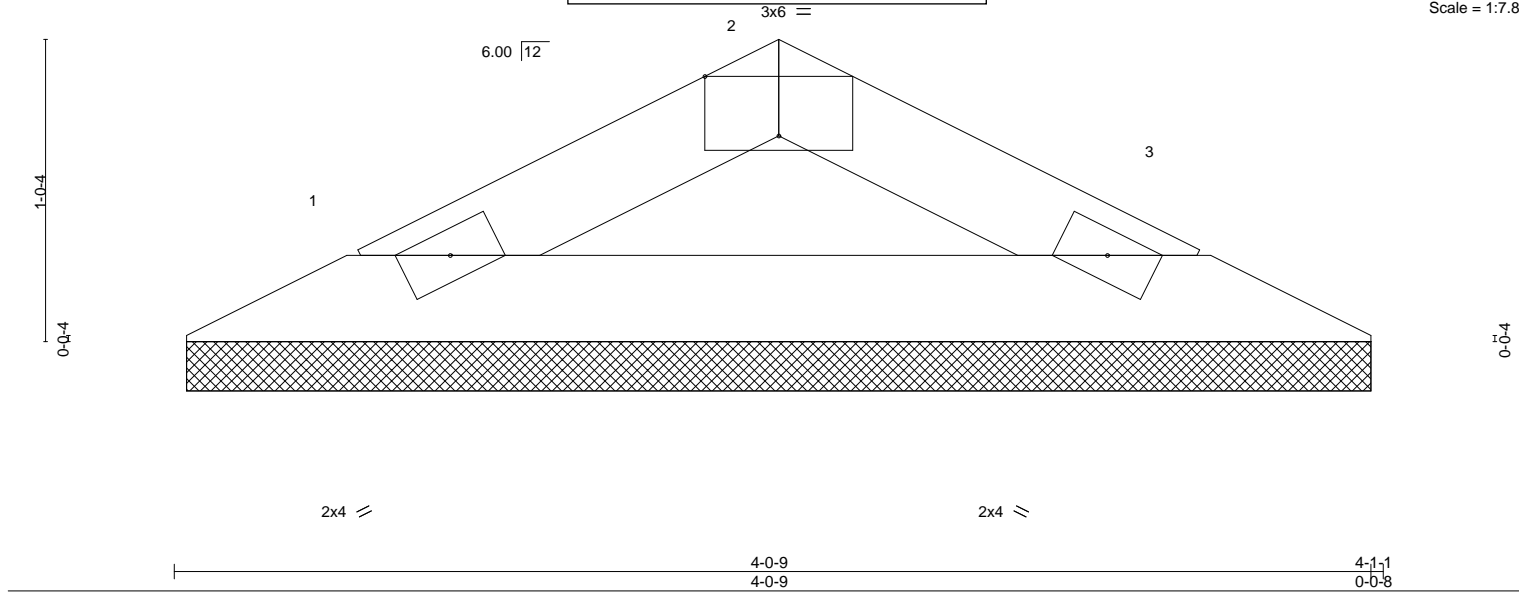


Plate Offsets (X,Y)--		[2:0-3:0,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P					
BCDL	10.0							Weight: 8 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-1-1 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-1, 3=4-0-1
Max Horz 1=-7(LC 8)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=127(LC 2), 3=127(LC 2)

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

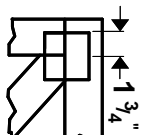
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



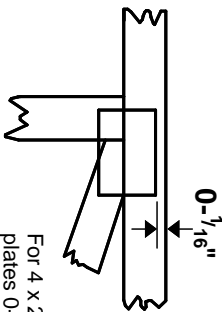
August 20,2020

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

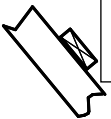
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

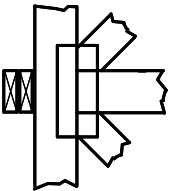
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



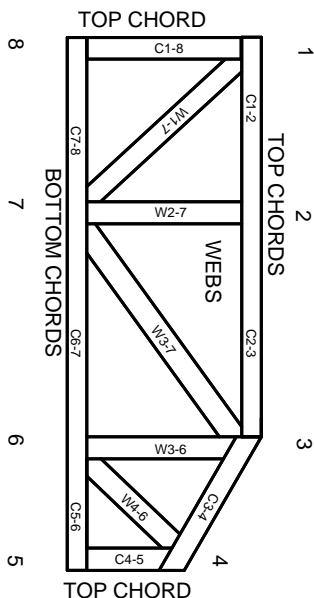
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/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.