



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

07/22/2020

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

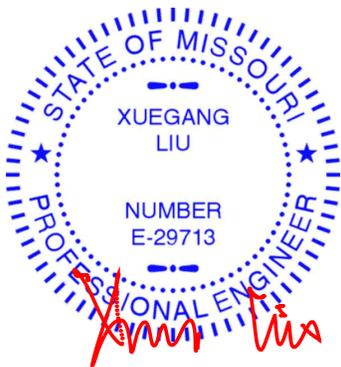
Re: P200271
1021 SW Armie St, Lee's Summit, MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Christensen Lumber - KC.

Pages or sheets covered by this seal: I42022311 thru I42022360

My license renewal date for the state of Missouri is December 31, 2020.

Missouri COA: Engineering 001193



July 15, 2020

Liu, Xuegang, Engineer

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

Job P200271	Truss A1	Truss Type Common Supported Gable	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/22/2020	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022311
Christensen Building Components, Fremont, NE		Job Reference (optional) 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:38 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqV0Oz_Uaw-jFR_nkOieWYRVNFEI_s0Sr0Cb_1bBRDGiHnEq2yy7xF			
	-0-11-0 0-11-0	13-4-0 13-4-0		26-8-0 13-4-0	27-7-0 0-11-0

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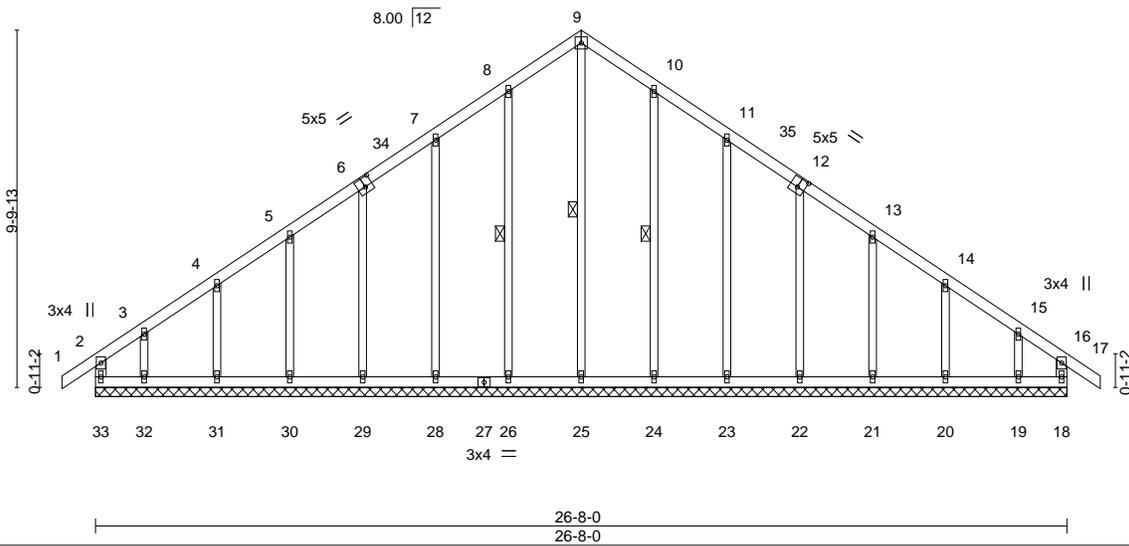


Plate Offsets (X,Y)--	[6:0-2-8,0-3-0], [12:0-2-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00 17 n/r 120	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 17 n/r 90		
TCDL 10.0	Rep Stress Incr NO	WB 0.18	Horz(CT) 0.00 18 n/a n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-R			
BCDL 10.0				Weight: 123 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 9-25, 8-26, 10-24
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 26-8-0.
 (lb) - Max Horz 33=187(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 33, 18, 26, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19 except 32=108(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 33, 18, 25, 26, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19

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

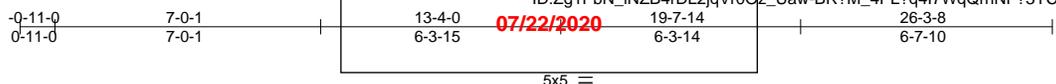
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



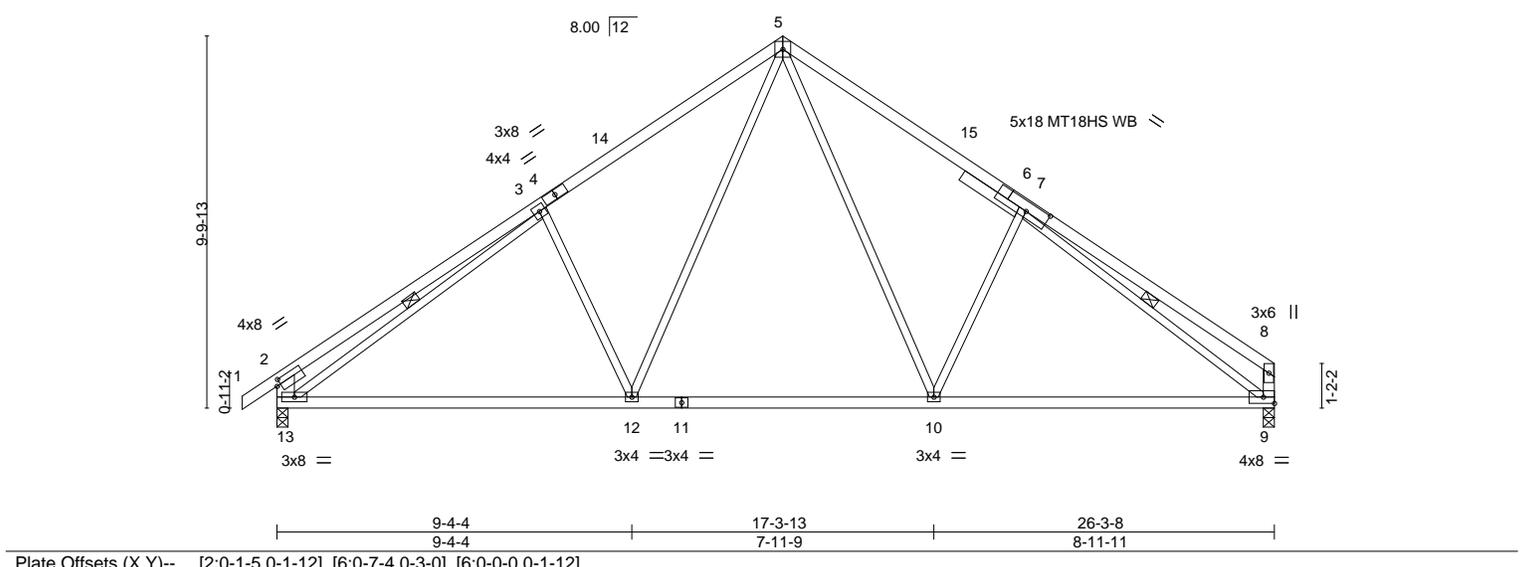
July 15, 2020

Job P200271	Truss A2	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022312
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Christensen Building Components, Fremont, NE
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 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:39 2020 Page 1



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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.80	in (loc) l/def L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.17 12-13 >999 240	MT18HS	197/144
TCDL 10.0	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.35 12-13 >891 180		
BCDL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 110 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 3-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 3-13, 7-9
OTHERS 2-13: 2x6 SPF No.2, 8-9: 2x4 SPF No.2	
2x4 SPF No.2	

REACTIONS. (size) 13=0-3-8, 9=0-3-8
 Max Horz 13=185(LC 9)
 Max Uplift 13=-3(LC 12)
 Max Grav 13=1248(LC 2), 9=1164(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-657/137, 3-5=-1342/92, 5-7=-1328/93, 7-8=-398/76, 2-13=-610/126, 8-9=-361/71
 BOT CHORD 12-13=-39/1143, 10-12=0/803, 9-10=0/1119
 WEBS 3-12=-363/179, 5-12=-62/547, 5-10=-64/520, 7-10=-341/180, 3-13=-896/0, 7-9=-1137/0

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

07/22/2020

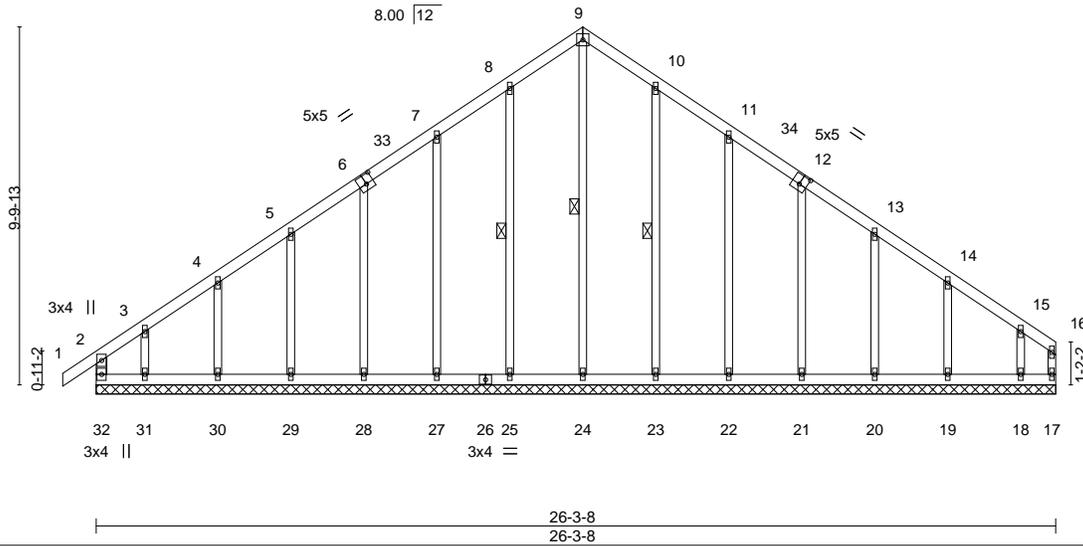
Job P200271	Truss A3	Truss Type Common Supported Gable	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022313
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Christensen Building Components, Fremont, NE

Job Reference (optional)



Scale = 1:62.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 1 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.00 1 n/r 90		
BCLL 0.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 17 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 121 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 *Except* 16-17: 2x3 SPF No.2	WEBS 1 Row at midpt 9-24, 8-25, 10-23
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 26-3-8.
 (lb) - Max Horz 32=184(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 25, 27, 28, 29, 30, 23, 22, 21, 20, 19 except 32=-122(LC 8), 31=-109(LC 12), 18=-104(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 32, 17, 24, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 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.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss A4	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022314
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Christensen Building Components, Fremont, NE
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 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:42 2020 Page 1



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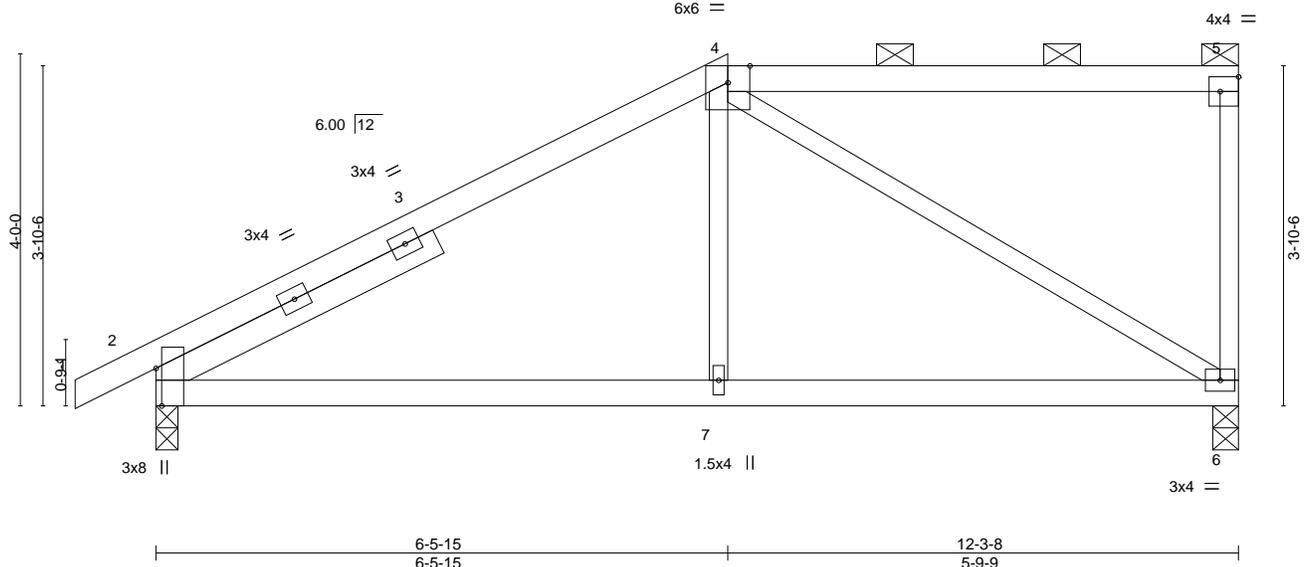


Plate Offsets (X,Y)--	[2:0-5-2,Edge], [5:Edge,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.05	2-7	>999	240	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.09	2-7	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.01	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-SH							
BCDL 10.0									Weight: 45 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-3-13 oc purlins, 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 or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
SLIDER Left 2x4 SPF No.2 -x 3-6-14	

REACTIONS. (size) 6=0-3-8, 2=0-3-0
 Max Horz 2=100(LC 11)
 Max Uplift 6=-99(LC 9), 2=-38(LC 9)
 Max Grav 6=589(LC 33), 2=707(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-734/65, 5-6=-265/47
 BOT CHORD 2-7=-109/518, 6-7=-109/513
 WEBS 4-7=-9/276, 4-6=-586/100

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 15, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	 <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job P200271	Truss A5	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022315
Christensen Building Components, Fremont, NE			Job Reference (optional) 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:44 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-YPoF1nTTqMibDliOeEyQi6F4KPzDbyM95DEZ2hy7x9		
-0-11-0 0-11-0			4-9-15 4-9-15		
			07/22/2020		
			12-3-8 7-5-9		

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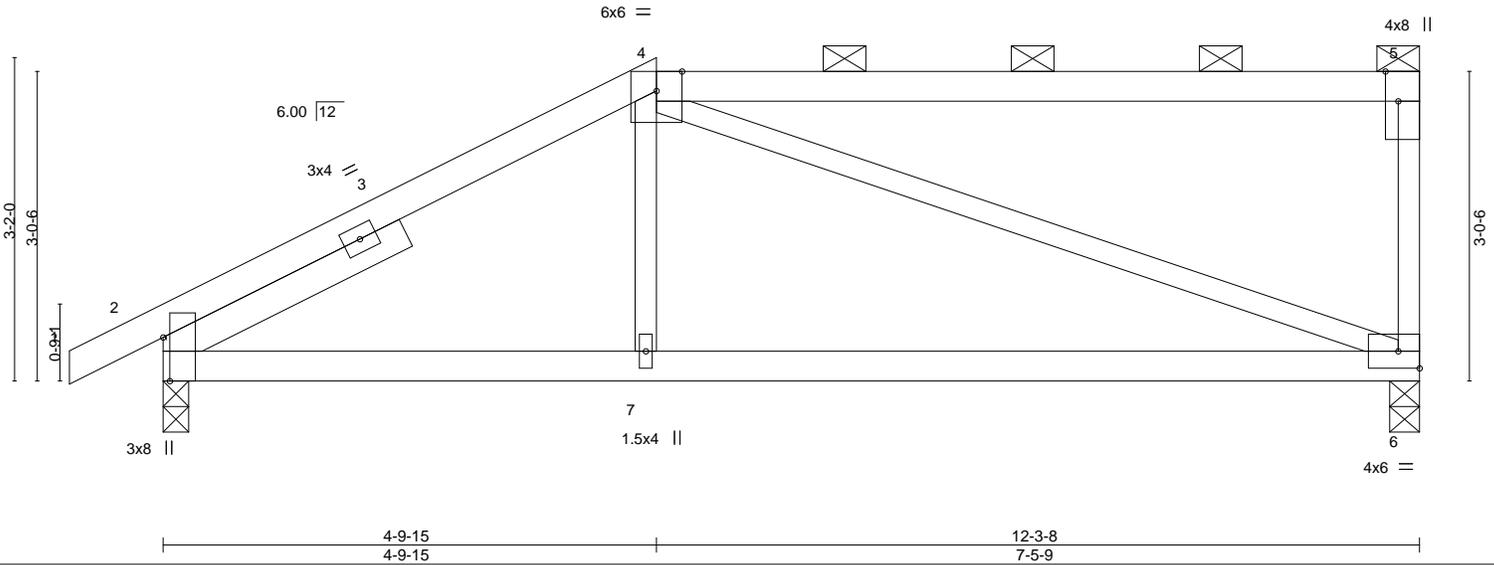


Plate Offsets (X, Y)--	[2:0-5-2, Edge], [5:0-3-8, Edge]	4-9-15 4-9-15	12-3-8 7-5-9		
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.74	in (loc) l/def L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.10 6-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.20 6-7 >749 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 43 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2400F 2.0E	TOP CHORD Sheathed or 6-0-0 oc purlins, 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 or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
SLIDER Left 2x4 SPF No.2 -x 2-7-11	

REACTIONS. (size) 6=0-3-8, 2=0-3-0
 Max Horz 2=77(LC 11)
 Max Uplift 6=-101(LC 9), 2=-54(LC 9)
 Max Grav 6=639(LC 33), 2=649(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-801/101, 5-6=-350/59
 BOT CHORD 2-7=-129/643, 6-7=-129/638
 WEBS 4-7=-5/288, 4-6=-621/111

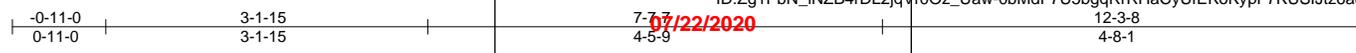
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.
 - This truss 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.



July 15, 2020

Job P200271	Truss A6	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022316
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Christensen Building Components, Fremont, NE
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 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:45 2020 Page 1



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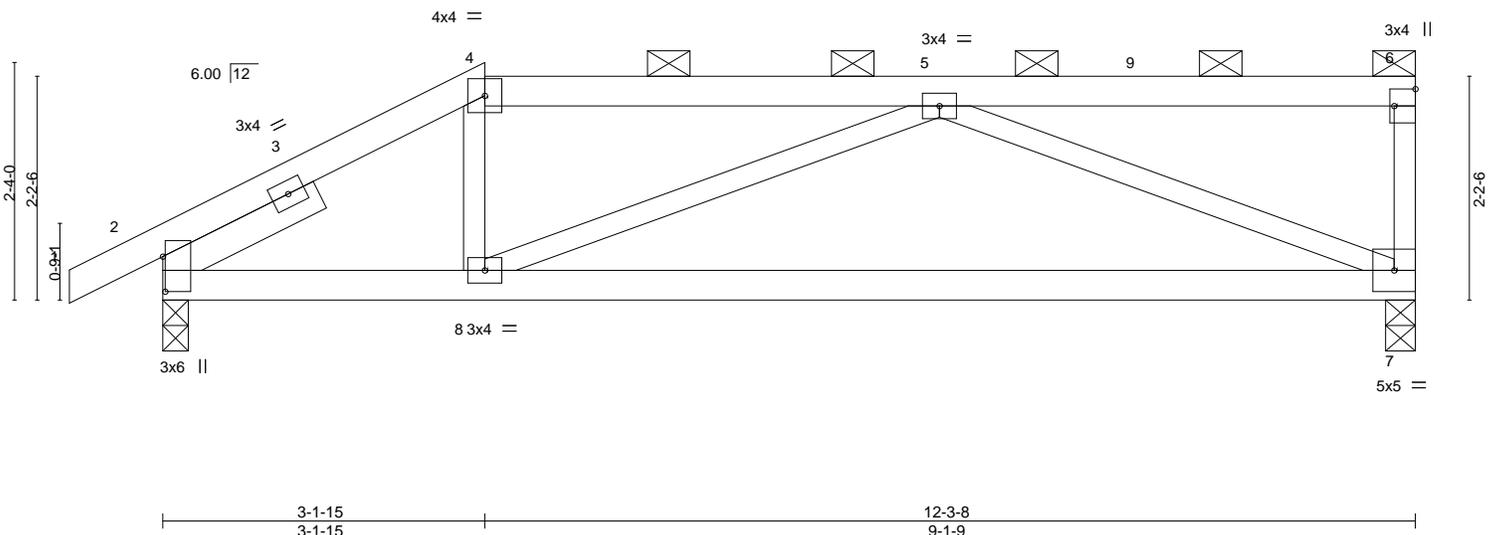


Plate Offsets (X,Y)-- [2-0-4-2,0-0-5], [6:Edge,0-2-8]	
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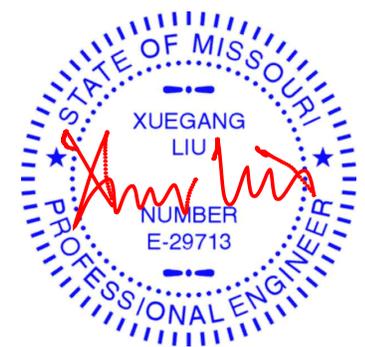
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.19 7-8 >753 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.40 7-8 >370 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
SLIDER Left 2x4 SPF No.2 -x 1-8-8	

REACTIONS. (size) 7=0-3-8, 2=0-3-0
 Max Horz 2=53(LC 11)
 Max Uplift 7=-102(LC 9), 2=-70(LC 9)
 Max Grav 7=675(LC 33), 2=615(LC 2)

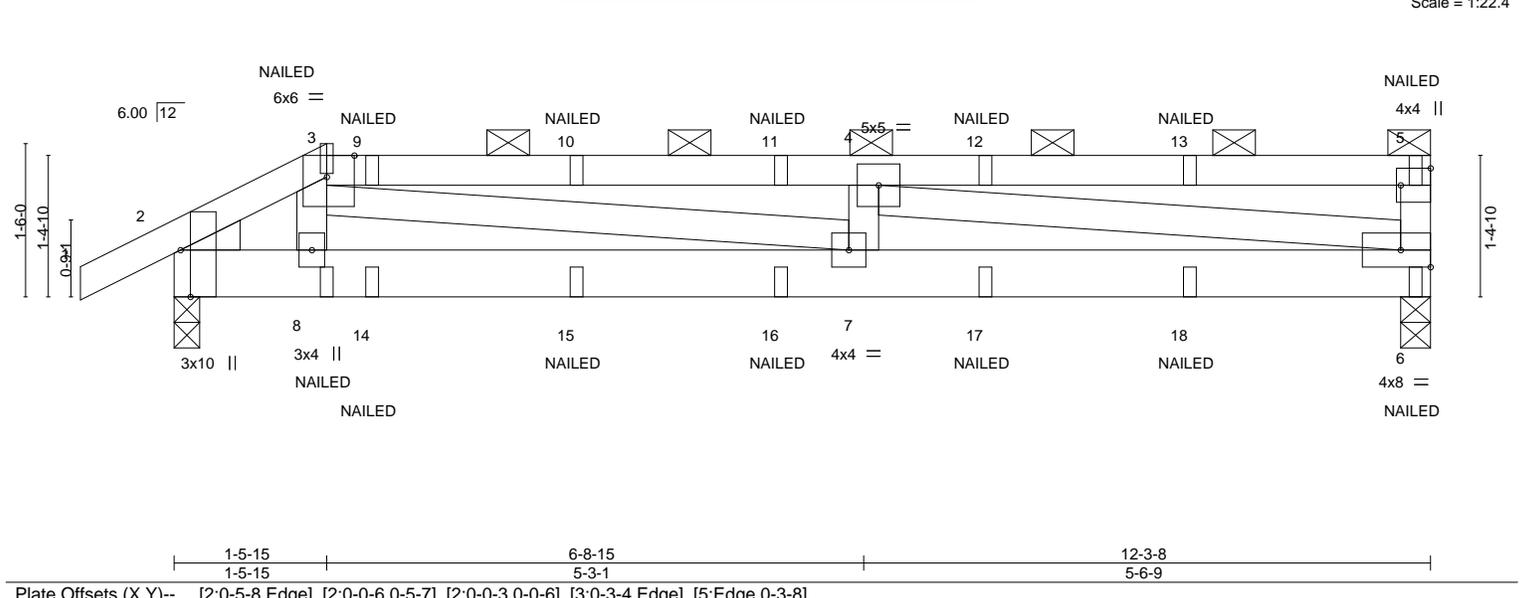
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-931/128, 4-5=-768/115
 BOT CHORD 2-8=-137/779, 7-8=-177/1028
 WEBS 4-8=-32/315, 5-8=-285/115, 5-7=-1050/174

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
 - This truss 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.



July 15, 2020

Job P200271	Truss A7	Truss Type Half Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO Job Reference (optional)	142022317
Christensen Building Components, Fremont, NE		8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:47 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-y_UNgpVM7H494lRzJNW7Jld3cz2oK4bnBSDe0yy7x6 07/22/2020				



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.10 7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.16 7 >913 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 52 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2

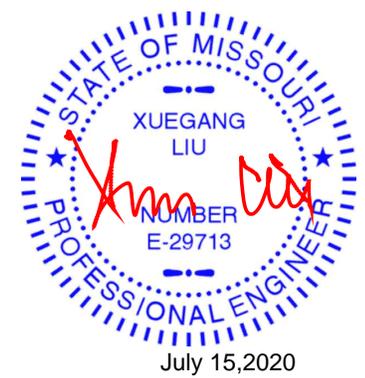
BRACING-
 TOP CHORD Sheathed or 5-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-0
 Max Horz 2=30(LC 9)
 Max Uplift 6=-115(LC 9), 2=-94(LC 8)
 Max Grav 6=692(LC 33), 2=641(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1197/187, 3-4=-1982/309, 4-5=-256/46
 BOT CHORD 2-8=-171/1001, 7-8=-167/973, 6-7=-314/1982
 WEBS 3-7=-156/1028, 4-6=-1756/273

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.
 - This truss 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 skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



Job P200271	Truss A7	Truss Type Half Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/22/2020	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022317 Job Reference (optional)
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:47 2020 Page 2
ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-y_UNgpVM7H494IRzJNW7Jltd3cz2oK4bnBSDe0yy7x6

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-55, 3-5=-55, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-1(F) 5=-19(F) 6=-4(F) 8=0(F) 9=-2(F) 10=-2(F) 11=-2(F) 12=-2(F) 13=-2(F) 14=0(F) 15=0(F) 16=0(F) 17=0(F) 18=0(F)

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

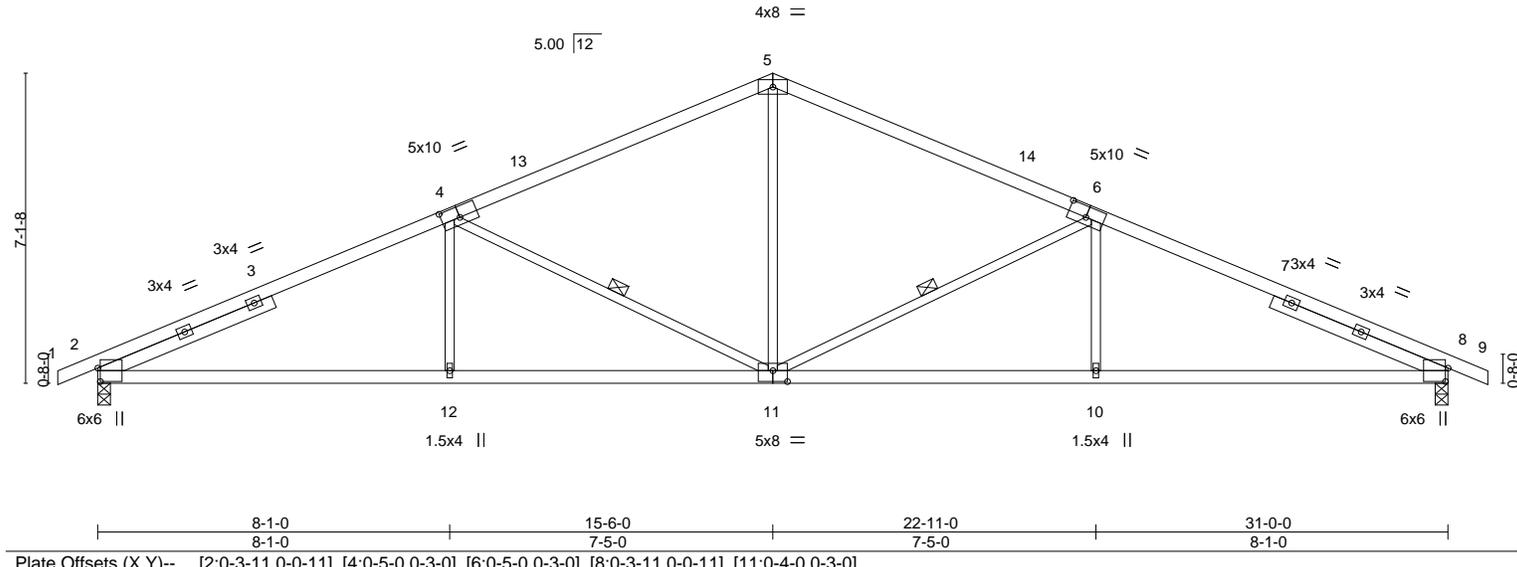
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 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 P200271	Truss B1	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022318
Christensen Building Components, Fremont, NE			Job Reference (optional)		
0-11-0 0-11-0			15-6-0 7-5-0		
8-1-0 8-1-0			22-11-0 7-5-0		
			31-0-0 8-1-0		
			31-11-0 0-11-0		

Scale = 1:52.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.13 11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.28 10-11 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.12 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 110 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 1-4,6-9: 2x4 SPF No.2	TOP CHORD Sheathed or 3-2-7 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 6-11, 4-11
SLIDER Left 2x4 SPF No.2 -x 4-4-2, Right 2x4 SPF No.2 -x 4-4-2	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=82(LC 12)
 Max Uplift 2=-13(LC 12), 8=-13(LC 13)
 Max Grav 2=1459(LC 2), 8=1459(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2636/7, 4-5=-1858/23, 5-6=-1858/23, 6-8=-2636/0
 BOT CHORD 2-12=-15/2316, 11-12=-19/2309, 10-11=0/2309, 8-10=0/2316
 WEBS 5-11=0/872, 6-11=-825/110, 6-10=0/309, 4-11=-825/110, 4-12=0/309

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

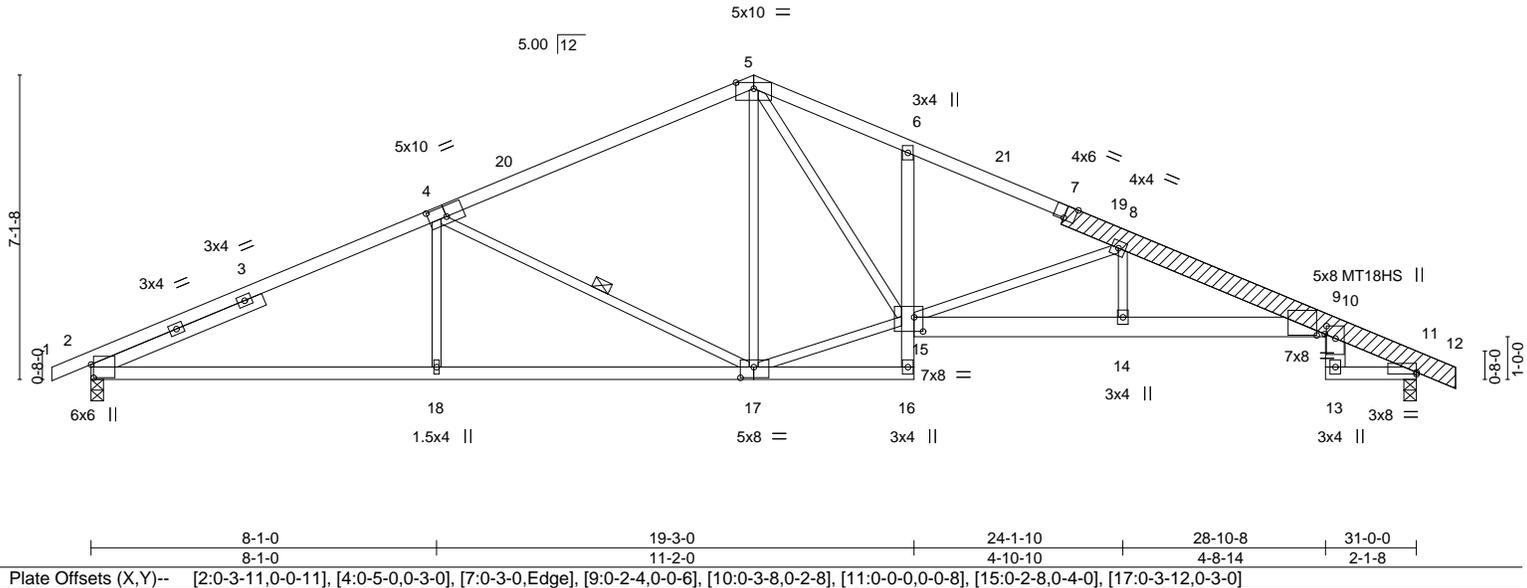


July 15, 2020

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

Job P200271	Truss B2	Truss Type Roof Special	1021 SW Armie St, Lee's Summit, MO	I42022319
Christensen Building Components, Fremont, NE			8.330 s May 27 2020 MiTek Industries, Inc. Tue Jul 14 18:13:48 2020 Page 1	
-0-11-0 0-11-0			19-3-0 3-9-0	
8-1-0 8-1-0			24-1-10 4-10-10	
15-6-0 7-5-0			28-10-8 4-8-14	
			31-0-0 2-1-8	
			31-11-0 0-11-0	

Scale = 1:53.6



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	Vert(LL)	-0.23	14-15	>999	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	Vert(CT)	-0.41	14-15	>899	MT18HS	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	Horz(CT)	0.25	11	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-SH						
BCDL	10.0								Weight: 163 lb	FT = 20%

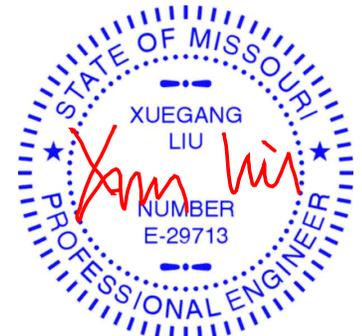
LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
 4-5: 2x4 SPF 1650F 1.5E, 7-12: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
 9-15: 2x6 SP 2400F 2.0E, 10-13: 2x6 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x6 SP 2400F 2.0E
LBR SCAB 7-12 2x6 SP 2400F 2.0E one side
SLIDER Left 2x4 SPF No.2 -H 4-4-2

BRACING-
TOP CHORD Sheathed or 3-1-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-17

REACTIONS. (lb/size) 11=1205/0-3-8, 2=1201/0-3-8
 Max Horz 2=-84(LC 17)
 Max Uplift 11=-17(LC 13), 2=-13(LC 12)
 Max Grav 11=1458(LC 2), 2=1452(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2623/0, 3-4=-2432/8, 4-20=-1834/0, 5-20=-1728/24, 5-6=-2573/37, 6-21=-2560/0,
 7-21=-2614/0, 7-19=-2644/0, 8-19=-2657/0, 8-9=-3887/0, 10-11=-1224/15
BOT CHORD 2-18=-14/2305, 17-18=-18/2298, 6-15=-285/86, 14-15=0/3640, 9-14=0/3640, 11-13=0/562
WEBS 15-17=0/1489, 5-15=-31/1405, 8-15=-1379/64, 4-18=0/317, 4-17=-830/107, 8-14=0/377

- NOTES-**
- Attached 10-0-0 scab 7 to 12, back face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 5-7-7 from end at joint 7, nail 2 row(s) at 3" o.c. for 4-3-2.
 - 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 11 and 13 lb uplift at joint 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 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



Job P200271	Truss B4	Truss Type ROOF SPECIAL	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022321
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Christensen Building Components, Fremont, NE
 Job Reference (optional)
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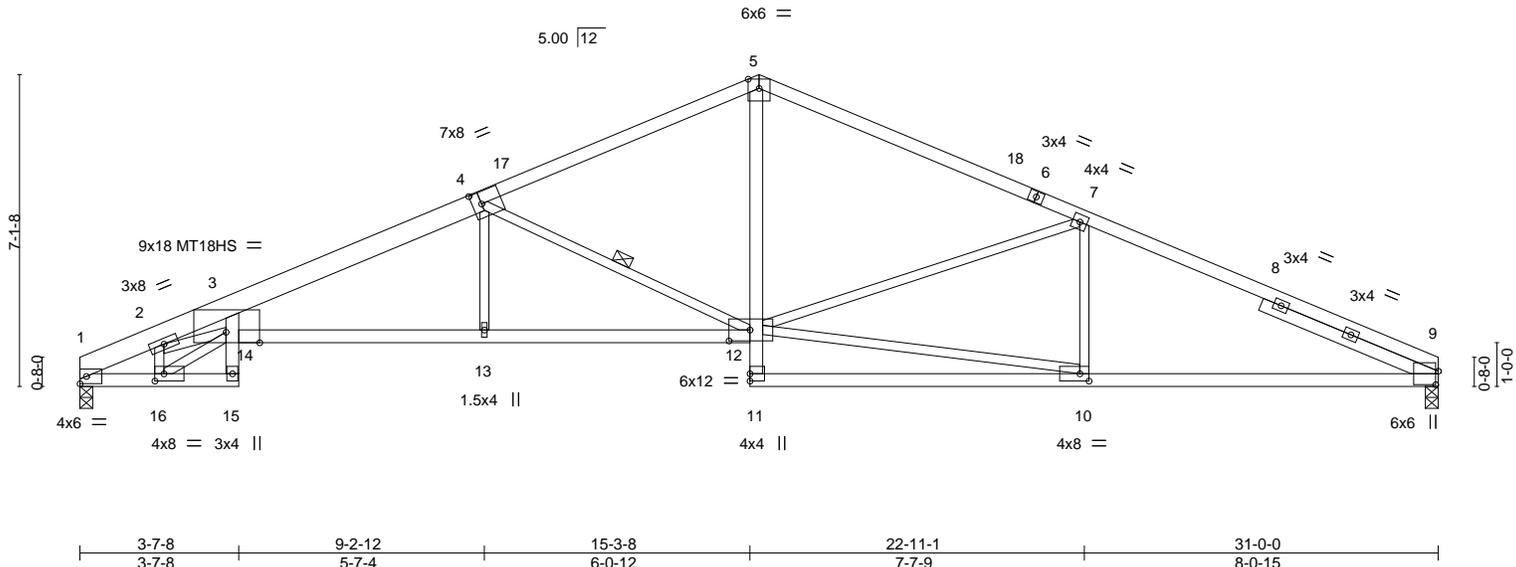
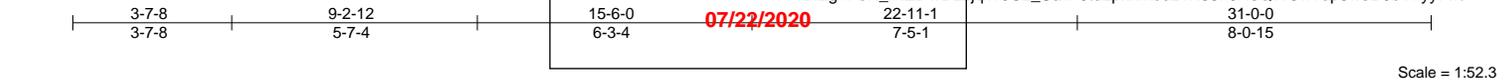


Plate Offsets (X,Y)-- [3:0-1-12,0-0-12], [3:0-9-3,Edge], [4:0-2-8,0-3-4], [9:0-3-11,0-0-11], [10:0-2-8,0-2-0], [12:0-5-12,0-3-0], [16:0-2-8,0-2-0]

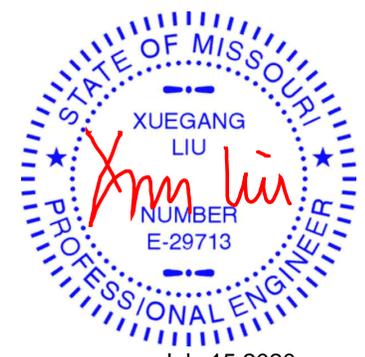
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20 197/144	
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.37 13-14 >999 240	MT18HS 197/144	
TCDL 10.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.67 13-14 >554 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.33 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 126 lb	FT = 20%

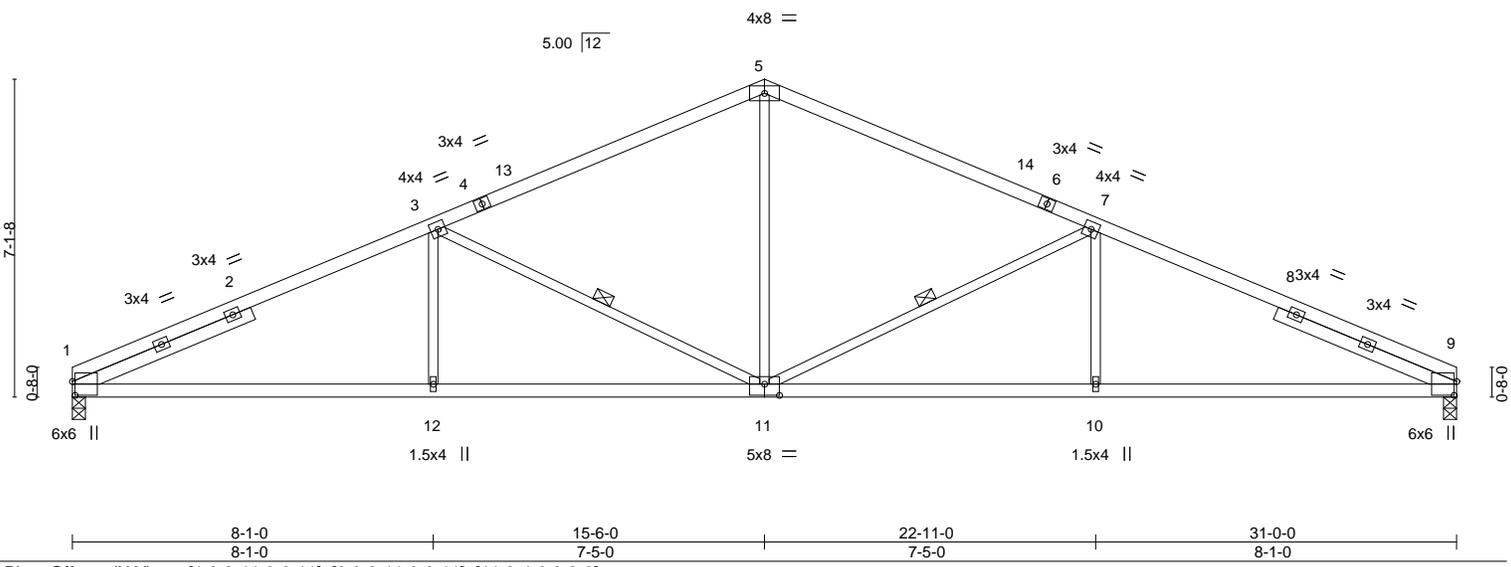
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x4 SPF 1650F 1.5E, 1-4: 2x6 SP 2400F 2.0E	TOP CHORD Sheathed.
BOT CHORD 2x4 SPF No.2 *Except* 12-14: 2x4 SPF 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 4-12
SLIDER Right 2x4 SPF No.2 -x 4-4-1	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=82(LC 16)
 Max Uplift 1=-1(LC 12), 9=-2(LC 13)
 Max Grav 1=1388(LC 2), 9=1388(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2476/0, 2-3=-4148/29, 3-4=-3257/10, 4-5=-2129/3, 5-7=-2101/17, 7-9=-2640/0
 BOT CHORD 1-16=-63/2108, 15-16=-13/378, 3-14=0/1227, 13-14=-8/3072, 12-13=-5/3079,
 5-12=0/1151, 9-10=0/2324
 WEBS 4-13=0/331, 4-12=-1360/100, 10-12=0/2142, 7-12=-624/119, 2-16=-1219/58,
 14-16=-60/2050, 2-14=0/1375

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 14 = 16%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	2-0-0	TC	0.96	Vert(LL)	-0.13	11	>999	L/d	240	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.28	10-11	>999		180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.12	9	n/a	n/a			
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH								Weight: 108 lb	FT = 20%
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 1-4,6-9: 2x4 SPF No.2	TOP CHORD	Sheathed.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2	WEBS	1 Row at midpt 7-11, 3-11
SLIDER	Left 2x4 SPF No.2 -x 4-4-2, Right 2x4 SPF No.2 -x 4-4-2		

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=82(LC 16)
 Max Uplift 1=-2(LC 12), 9=-2(LC 13)
 Max Grav 1=1395(LC 2), 9=1395(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2652/11, 3-5=-1867/24, 5-7=-1867/24, 7-9=-2652/0
 BOT CHORD 1-12=-20/2334, 11-12=-20/2334, 10-11=0/2334, 9-10=0/2334
 WEBS 5-11=0/861, 7-11=-841/109, 7-10=0/308, 3-11=-841/108, 3-12=0/308

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss B6	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022323
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Christensen Building Components, Fremont, NE

Job Reference (optional)



Scale = 1:53.0

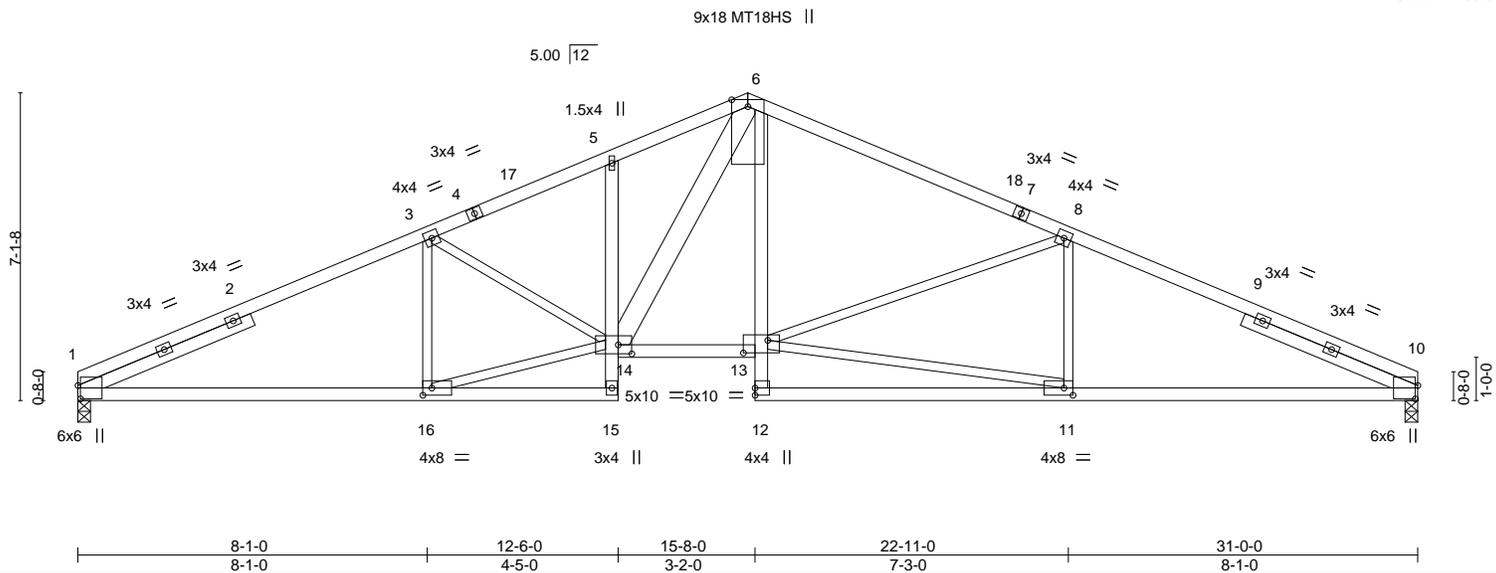


Plate Offsets (X,Y)-- [1:0-3-11,0-0-11], [10:0-3-11,0-0-11], [11:0-2-8,0-2-0], [13:0-6-12,0-3-8], [14:0-3-12,0-2-8], [16:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20 197/144	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.17 13-14 >999 240	MT18HS 197/144	
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.32 11-12 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.15 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
6-14: 2x6 SPF No.2
SLIDER Left 2x4 SPF No.2 -x 4-4-2, Right 2x4 SPF No.2 -x 4-4-2

BRACING-
TOP CHORD Sheathed or 2-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=83(LC 16)
Max Uplift 1=-3(LC 12)
Max Grav 1=1395(LC 2), 10=1395(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2627/11, 3-5=-2547/17, 5-6=-2531/57, 6-8=-2164/19, 8-10=-2656/0
BOT CHORD 1-16=-20/2305, 5-14=-298/61, 13-14=0/1884, 6-13=0/716, 10-11=0/2340
WEBS 3-16=-371/77, 14-16=-15/2234, 6-14=-80/853, 11-13=0/2225, 8-13=-598/122

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

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

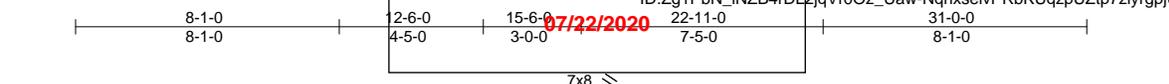
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 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 P200271	Truss B7	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022324
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Christensen Building Components, Fremont, NE
 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-NqhxselvPRbKUqzPz7ziyrgpJUUIYNIIGLsyy7wo
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:07 2020 Page 1
 Job Reference (optional)



Scale = 1:70.3

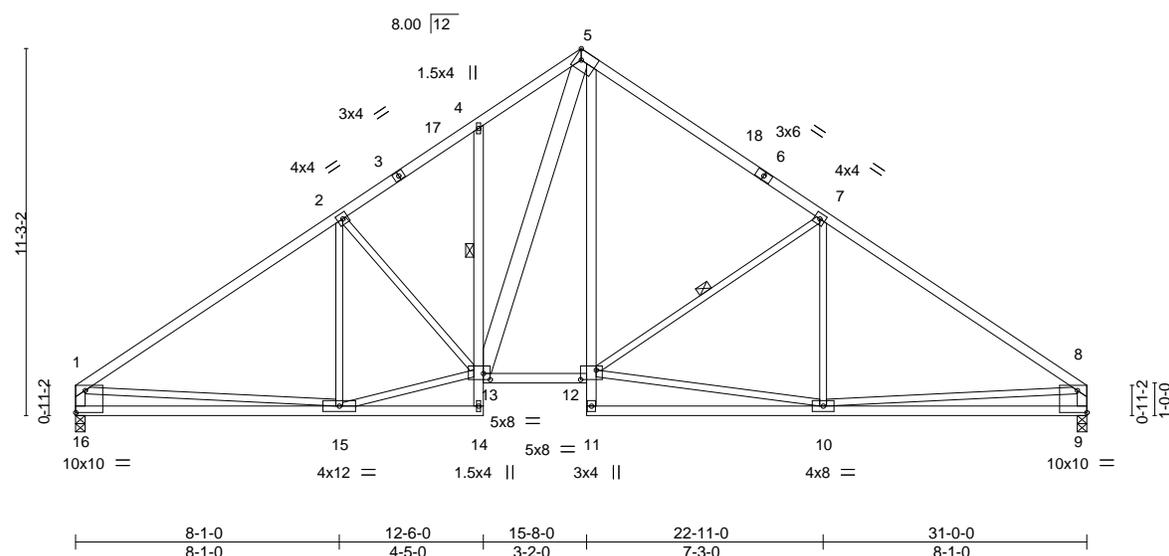


Plate Offsets (X,Y)-- [9:0-1-12,0-0-0], [9:Edge,0-8-2], [12:0-5-12,0-3-8], [13:0-2-8,0-2-4], [16:0-1-12,0-0-0], [16:Edge,0-8-2]

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	0.91	Vert(LL)	-0.11 15-16	>999	240	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.23 15-16	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.06 9	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 162 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-3,6-8: 2x4 SPF 1650F 1.5E	TOP CHORD	Sheathed, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 1 Row at midpt 4-13
WEBS	2x3 SPF No.2 *Except* 5-13: 2x6 SPF No.2, 1-16,8-9: 2x4 SPF No.2	WEBS	1 Row at midpt 7-12

REACTIONS. (size) 16=0-3-8, 9=0-3-8
 Max Horz 16=-203(LC 8)
 Max Grav 16=1382(LC 2), 9=1382(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1859/7, 2-4=-1678/68, 4-5=-1609/132, 5-7=-1486/90, 7-8=-1877/3, 1-16=-1302/34, 8-9=-1305/28
 BOT CHORD 15-16=-166/552, 12-13=0/1074, 5-12=-8/626, 9-10=-49/379
 WEBS 2-15=-274/82, 13-15=-17/1398, 2-13=-270/108, 5-13=-137/722, 10-12=0/1379, 7-12=-502/150, 1-15=0/999, 8-10=0/1075

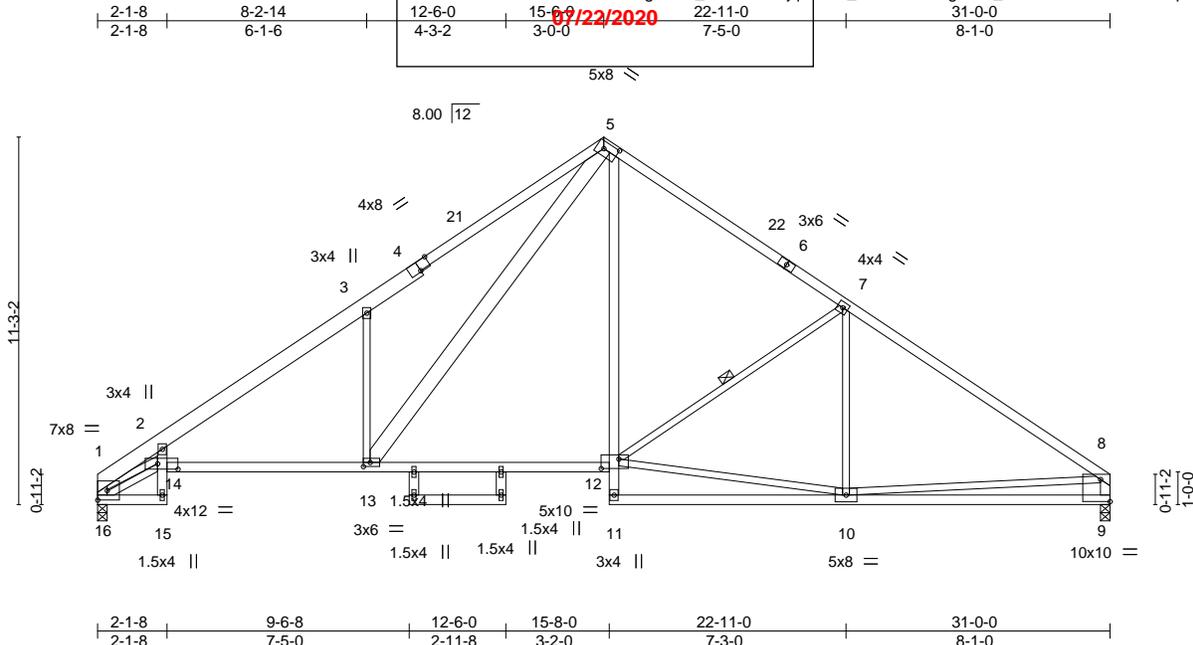
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss B8	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022325
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Christensen Building Components, Fremont, NE
 ID: Zg1PbN_iNZB4rDL2jqV0Oz_Uaw-nPN4VgnniM_uLHiNAiQWlbtAunDhpm_3GXxxByy7wl
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:10 2020 Page 1
 Job Reference (optional)



Scale = 1:70.2

Plate Offsets (X,Y)--	[4:0-4-0,Edge], [5:0-5-4,0-2-8], [9:0-1-12,0-0-0], [9:Edge,0-8-2], [12:0-6-8,0-3-8], [13:0-2-8,0-1-8], [14:0-7-8,0-2-0]				
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 0.94	Vert(LL) -0.15 13-14 >999 240	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.29 13-14 >999 180		
TCDL 10.0	Rep Stress Incr NO	WB 0.53	Horz(CT) 0.18 9 n/a n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-SH			
BCDL 10.0				Weight: 164 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 5-6: 2x4 SPF No.2, 1-4: 2x6 SP 2400F 2.0E	TOP CHORD Sheathed, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-16,8-9,17-19,18-20: 2x4 SPF No.2, 5-13: 2x6 SPF No.2	WEBS 1 Row at midpt 7-12

REACTIONS. (size) 9=0-3-8, 16=0-3-8
 Max Horz 16=203(LC 11)
 Max Grav 9=1382(LC 2), 16=1382(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2479/33, 2-3=-2139/25, 3-5=-2333/227, 5-7=-1490/87, 7-8=-1877/2,
 1-16=-1430/54, 8-9=-1305/28
 BOT CHORD 2-14=-10/468, 13-14=-54/1780, 12-13=0/1078, 5-12=0/630, 9-10=-50/380
 WEBS 10-12=0/1411, 7-12=-498/152, 14-16=-161/297, 8-10=0/1074, 3-13=-765/272,
 5-13=-228/1170, 1-14=0/1534

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

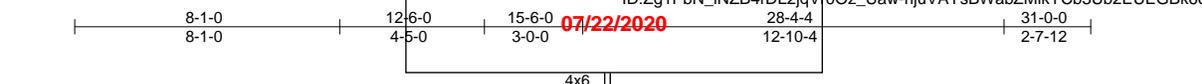


July 15, 2020

<p>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</p>	 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job P200271	Truss B10	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022327
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Christensen Building Components, Fremont, NE
 ID: Zg1PbN_iNZB4rDL2jqV0Oz_Uaw-rjuVAYsBWabZMkYCb3Ub2EUEGBk66BipQQnnyy7x2
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:51 2020 Page 1



Scale = 1:70.0

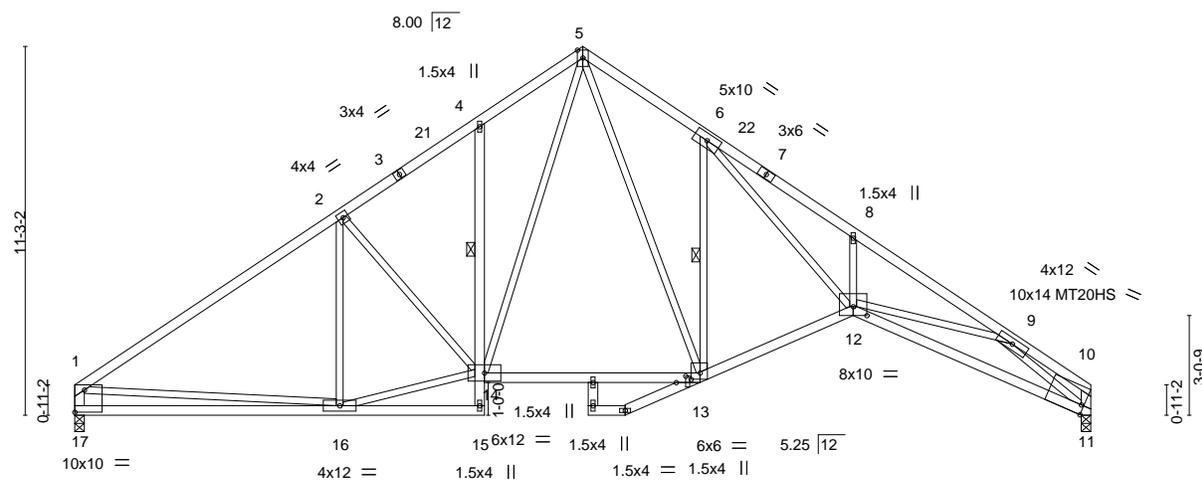


Plate Offsets (X,Y)--	[10:0-1-0,Edge], [10:0-2-1,0-0-6], [12:0-5-0,0-3-4], [13:0-2-6,0-3-7], [13:0-3-5,0-2-5], [17:Edge,0-8-2], [17:0-1-12,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20 197/144	
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.28 12 >999 240	MT20HS 148/108	
TCDL 10.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.49 12 >749 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.35 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-3: 2x4 SPF 1650F 1.5E	TOP CHORD Sheathed, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x3 SPF No.2 *Except* 1-17,10-11: 2x4 SPF No.2	6-0-0 oc bracing: 15-16. 1 Row at midpt 4-14 1 Row at midpt 6-13

REACTIONS. (size) 17=0-3-8, 11=0-3-8
 Max Horz 17=201(LC 11)
 Max Grav 17=1382(LC 2), 11=1382(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1859/5, 2-4=-1683/63, 4-5=-1603/123, 5-6=-1700/119, 6-8=-3911/7, 8-9=-3921/0,
 9-10=-323/0, 1-17=-1302/33
 BOT CHORD 16-17=-163/549, 13-14=0/1066, 12-13=0/1501, 11-12=-36/2440
 WEBS 14-16=0/1431, 2-14=-268/112, 8-12=-333/142, 1-16=0/999, 9-11=-2841/83,
 2-16=-281/77, 6-13=-1251/106, 6-12=0/2827, 5-13=-114/833, 5-14=-107/780,
 9-12=0/981

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss B11	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/22/2020	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022328 Job Reference (optional)
Christensen Building Components, Fremont, NE			8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:38:57 2020 Page 2 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-gv49mEddmMLIHHCuvThTjsIMCeS78vw34ktl_Ryy7wy		

NOTES-

- 9) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) N/A
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
- 16) 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: 1-12=-55, 12-21=-55, 1-26=-20, 23-26=-20, 21-23=-20
Concentrated Loads (lb)
Vert: 57=-175(B) 59=-293(B) 60=-36(B) 61=-36(B) 62=-36(B) 63=-36(B) 64=-36(B) 65=-36(B) 66=-36(B)

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

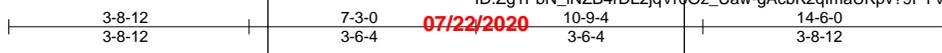
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 P200271	Truss C1	Truss Type Scissor	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022329
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Christensen Building Components, Fremont, NE
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:14 2020 Page 1
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4x4 ||

Scale = 1:35.6

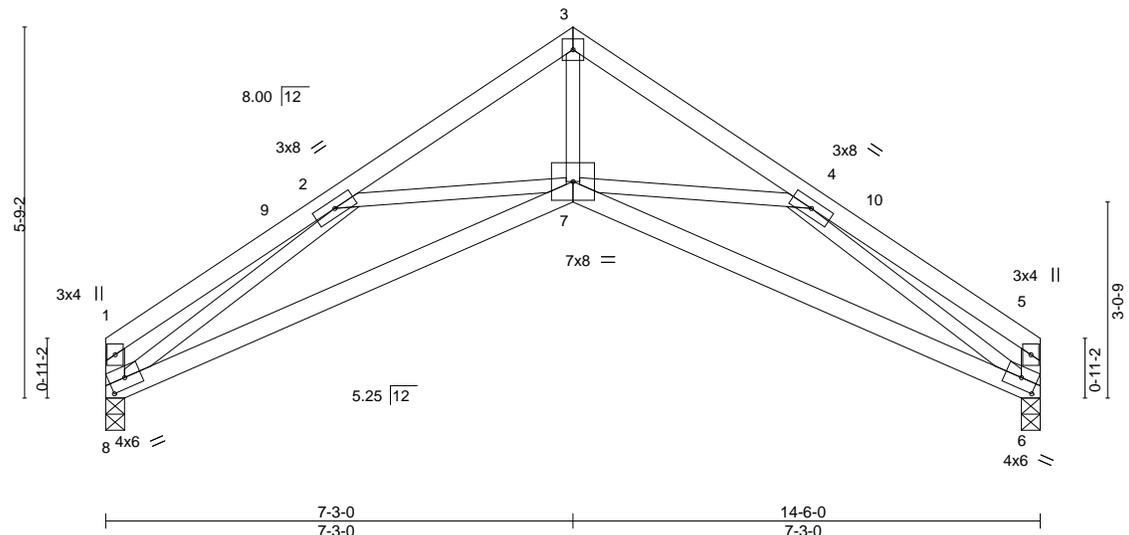


Plate Offsets (X,Y)-- [6:0-2-15,0-2-0], [8:0-2-15,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.09 6-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.20 6-7 >843 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.13 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 4-11-12 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-8,5-6: 2x4 SPF No.2	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-103(LC 8)
 Max Grav 8=639(LC 2), 6=639(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-280/8, 2-3=-1264/0, 3-4=-1264/0, 4-5=-280/4
 BOT CHORD 7-8=-90/1179, 6-7=-8/1179
 WEBS 3-7=0/1053, 2-8=-1180/68, 4-6=-1180/23

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss C2	Truss Type Scissor	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022330
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Christensen Building Components, Fremont, NE
 Job Reference (optional)
 ID: Zg1PbN_iNZB4rDL2jqV10Oz_Uaw-8NAzYOrwXucBR2aLyF0hSf2T?vXAM3LjDYeidOyy7wg

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:15 2020 Page 1
 3-8-12 7-3-0 10-9-4 14-6-0 15-5-0
 3-8-12 3-6-4 3-6-4 3-8-12 0-11-0

4x4

Scale = 1:32.6

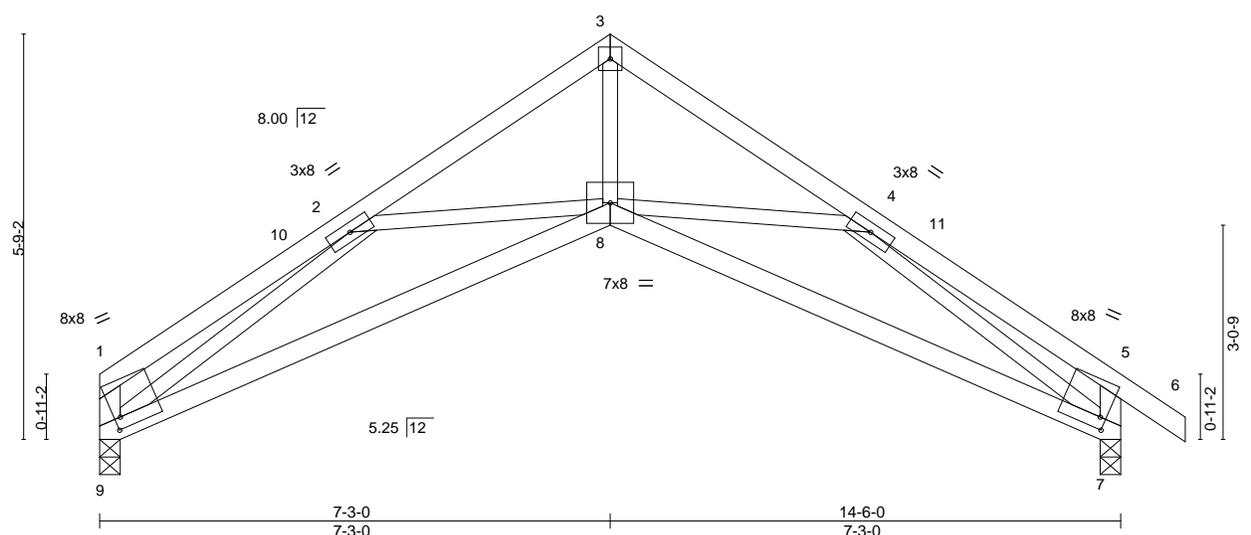


Plate Offsets (X,Y)-- [1:0-2-1,0-0-6], [1:0-1-0,0-2-0], [5:0-2-1,0-0-6], [5:0-1-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.09 7-8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.20 7-8 >844 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.13 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 56 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 4-11-12 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-9,5-7: 2x4 SPF No.2	

REACTIONS. (size) 9=0-3-8, 7=0-3-8
 Max Horz 9=-112(LC 8)
 Max Uplift 7=-5(LC 13)
 Max Grav 9=637(LC 2), 7=717(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-279/8, 2-3=-1255/0, 3-4=-1253/0, 4-5=-303/15, 5-7=-340/36
 BOT CHORD 8-9=-74/1173, 7-8=0/1150
 WEBS 3-8=0/1040, 2-9=-1172/59, 4-7=-1128/0

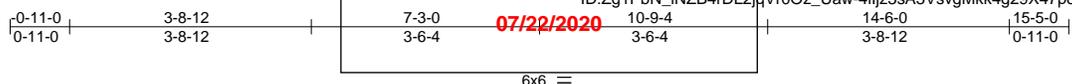
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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) 9, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss C3	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022331
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Christensen Building Components, Fremont, NE



Scale = 1:35.4

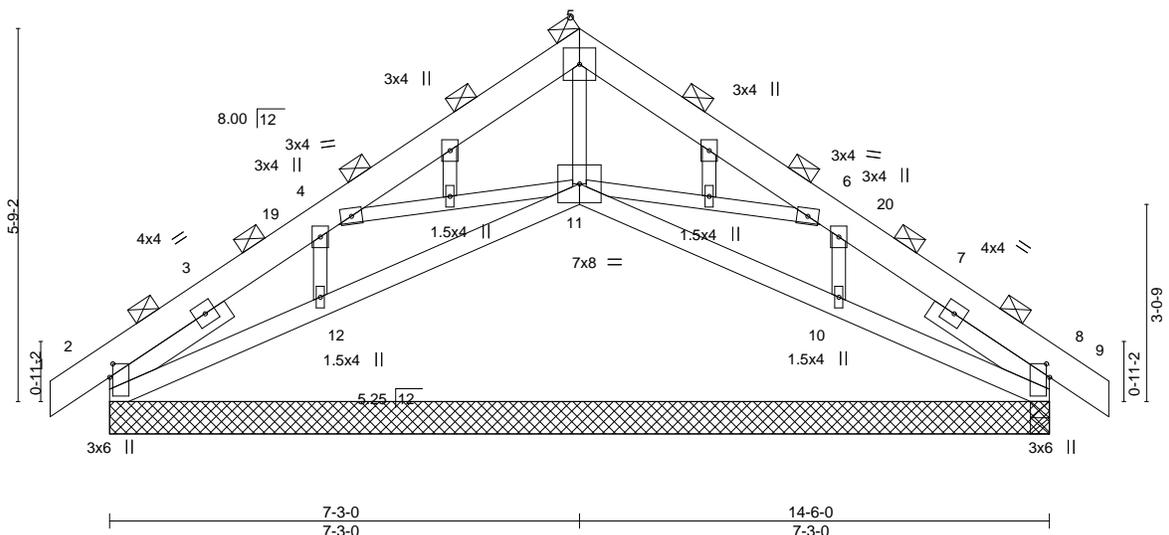


Plate Offsets (X,Y)-- [2:0-2-8,0-0-9], [8:0-2-8,0-0-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	5-0-0	TC 0.38	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) -0.01 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.03 10-11 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x4 SPF No.2	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	
SLIDER Left 2x4 SPF No.2 -x 2-2-11, Right 2x4 SPF No.2 -x 2-2-11	

REACTIONS. All bearings 14-6-0.
 (lb) - Max Horz 2=241(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-104(LC 13), 8=-181(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=792(LC 32), 8=792(LC 33), 8=595(LC 1), 11=1671(LC 2), 12=398(LC 7), 10=398(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1064/252, 4-5=-94/605, 5-6=-51/605, 6-8=-1064/319
 BOT CHORD 2-12=-259/790, 11-12=-265/787, 10-11=-144/787, 8-10=-136/790
 WEBS 5-11=-1170/142, 6-11=-966/383, 4-11=-966/397

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 psf on overhangs non-concurrent with other live loads.
 - 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) 11.
 - N/A
 - This truss 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.

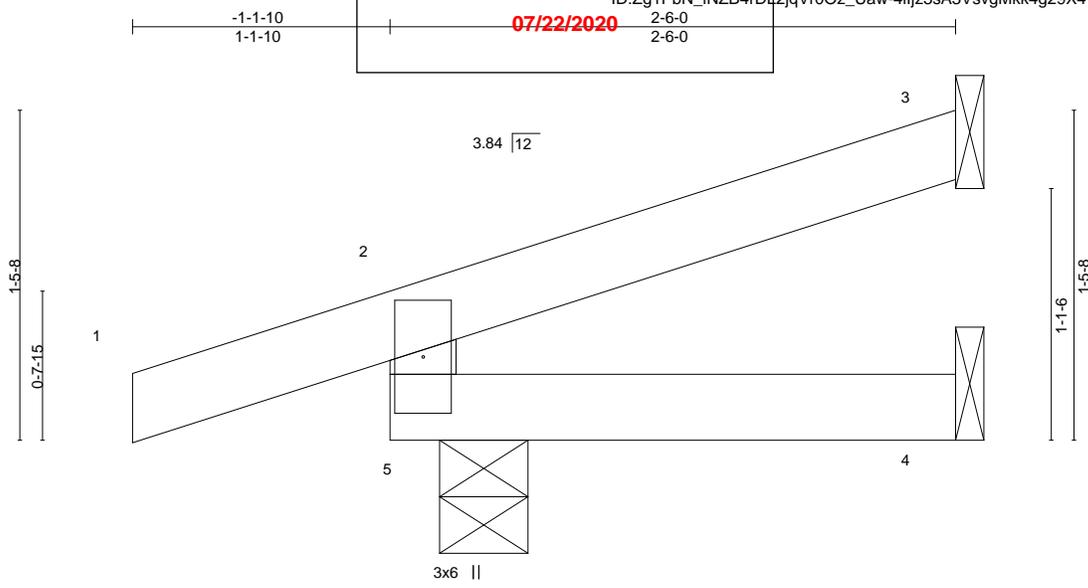


July 15, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	 <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job P200271	Truss HA1	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022332
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Christensen Building Components, Fremont, NE
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 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:17 2020 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.00 3 n/a n/a	Weight: 7 lb	FT = 20%
BCDL 10.0	Code IRC2018/TP12014				

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

REACTIONS. (size) 5=0-4-11, 3=Mechanical, 4=Mechanical
 Max Horz 5=31(LC 8)
 Max Uplift 5=-52(LC 8), 3=-17(LC 12), 4=-4(LC 9)
 Max Grav 5=237(LC 19), 3=65(LC 19), 4=41(LC 7)

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

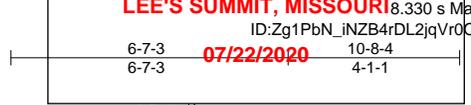
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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) 3, 4.
 - 8) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
 - 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.



July 15, 2020

Job P200271	Truss HG1	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022333
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Christensen Building Components, Fremont, NE



Scale = 1:54.6

Plate Offsets (X,Y)--	[5:0-1-4,Edge], [8:Edge,0-2-8]
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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	0.41	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a		
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	-0.00	9	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 61 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2	WEBS	1 Row at midpt 8-9, 7-9, 6-10
OTHERS	2x3 SPF No.2		

REACTIONS. All bearings 10-8-4.
 (lb) - Max Horz 1=222(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 10, 11 except 12=110(LC 12), 13=113(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 11 except 10=318(LC 32), 12=281(LC 33), 13=319(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-261/212
 WEBS 6-10=-272/69, 2-13=-253/127

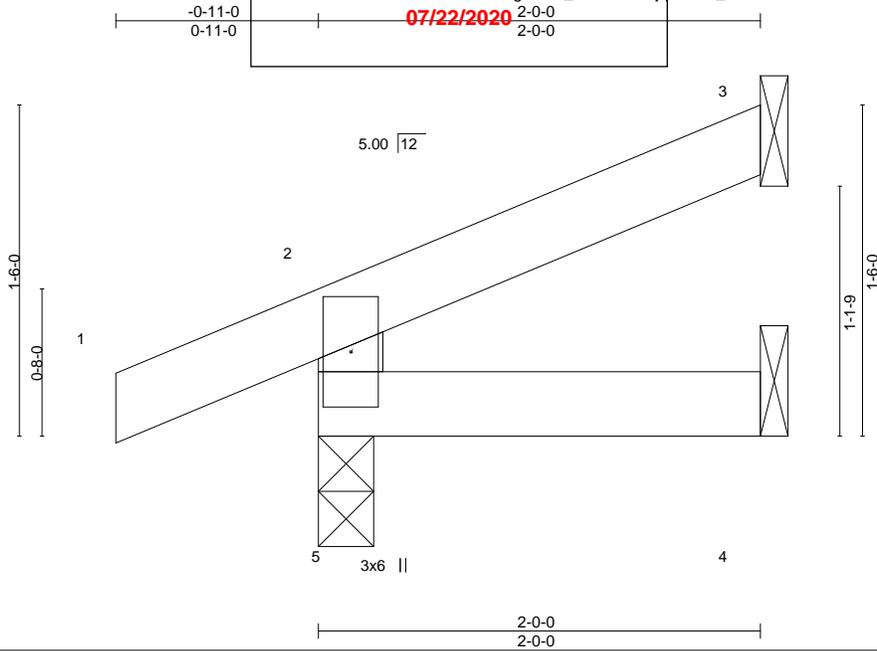
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - N/A
 - This truss 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.



July 15, 2020

Job P200271	Truss JA1	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022334
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Christensen Building Components, Fremont, NE
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 18.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:20 2020 Page 1
 Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.00 3 n/a 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
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Sheathed or 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
 Max Horz 5=28(LC 12)
 Max Uplift 5=-24(LC 8), 3=-16(LC 12), 4=-4(LC 9)
 Max Grav 5=196(LC 19), 3=52(LC 19), 4=33(LC 7)

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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch 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=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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) 3, 4.
 - 8) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
 - 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.



July 15, 2020

Job P200271	Truss JB1	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022335
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Christensen Building Components, Fremont, NE
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 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:21 2020 Page 1

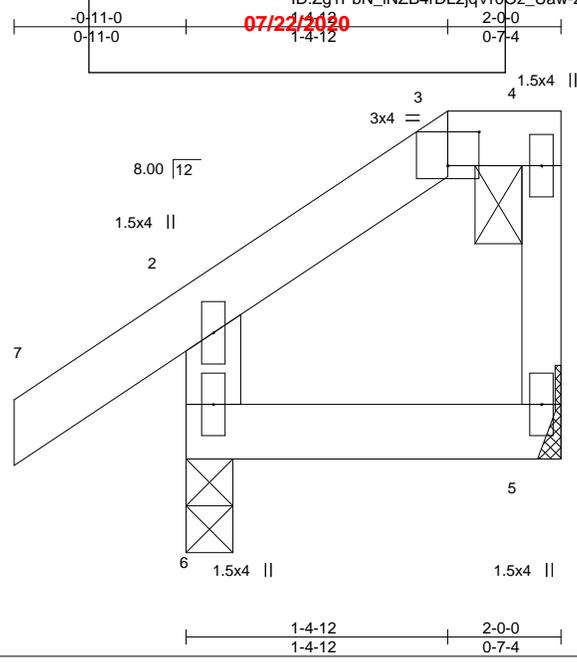


Plate Offsets (X,Y)--	[3:0-2-0,0-2-3]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 6 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-R	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 8 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2	

REACTIONS. (size) 5=Mechanical, 6=0-3-0
 Max Horz 6=50(LC 9)
 Max Uplift 5=-18(LC 9), 6=-11(LC 12)
 Max Grav 5=65(LC 33), 6=242(LC 34)

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

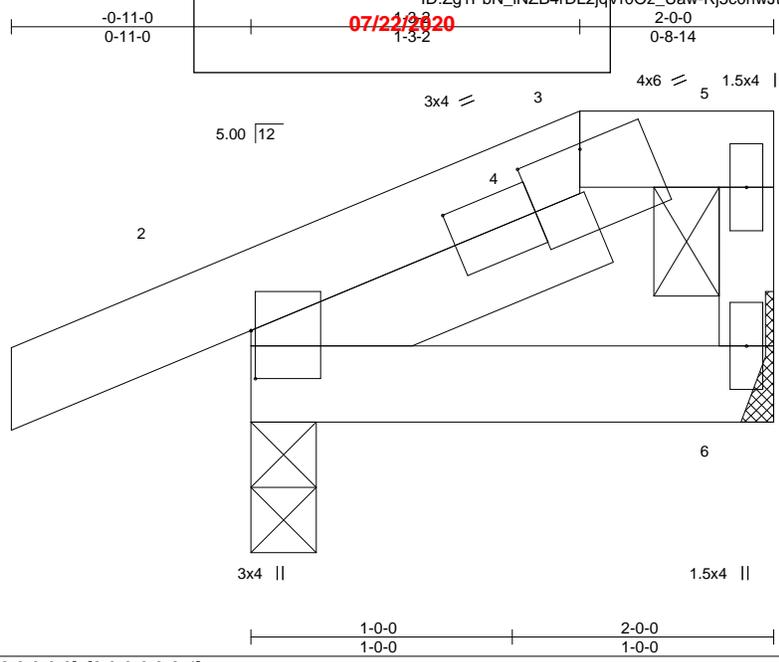
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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) 5.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
 - This truss 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.



July 15, 2020

Job P200271	Truss JB2	Truss Type Half Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022336
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Christensen Building Components, Fremont, NE
 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-Rj5c0nwJt2UBn7chtDeKE7qk2j2UVNylq7RZNUyy7wZ
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:22 2020 Page 1



Scale = 1:8.8

Plate Offsets (X,Y)-- [2:0-10-3,0-1-8], [2:0-2-3,0-0-3], [3:0-3-0,0-0-4]

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	0.08	Vert(LL)	-0.00	2	>999	240
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-R						
BCDL	10.0									
									Weight: 8 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Sheathed or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -x 1-4-13		

REACTIONS. (size) 6=Mechanical, 2=0-3-0
 Max Horz 2=43(LC 9)
 Max Uplift 6=-15(LC 9), 2=-20(LC 12)
 Max Grav 6=106(LC 2), 2=283(LC 34)

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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 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) 6.
 - One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - This truss 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.



July 15, 2020

Job P200271	Truss JB3	Truss Type Half Hip Supported	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022337
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Christensen Building Components, Fremont, NE
 ID: Zg1PbN_iNZB4rDL2jqV0Oz_Uaw-vvf_D7xxeLc2PHBtQx9ZnLNuq7OVEqCu3nA7vxyy7wY
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:23 2020 Page 1

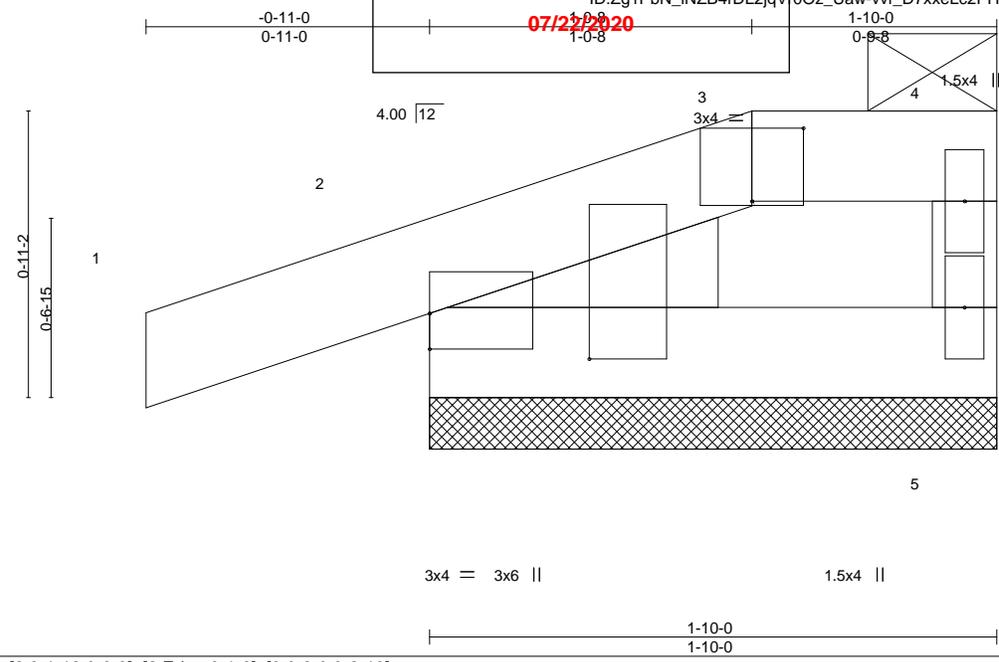


Plate Offsets (X,Y)-- [2:0-1-12,0-6-3], [2:Edge,0-1-6], [3:0-2-0,0-2-13]

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	0.08	Vert(LL)	0.00	1	n/r	120	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	90	
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0	Code IRC2018/TPI2014		Matrix-R							
BCDL	10.0										Weight: 7 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Sheathed or 1-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2		
WEDGE			
Left:	2x4 SPF No.2		

REACTIONS. (size) 5=1-10-0, 2=1-10-0
 Max Horz 2=20(LC 9)
 Max Uplift 5=-3(LC 9), 2=-31(LC 8)
 Max Grav 5=68(LC 33), 2=187(LC 34)

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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 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 2.00 times flat roof load of 17.3 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - N/A
 - This truss 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.



July 15, 2020

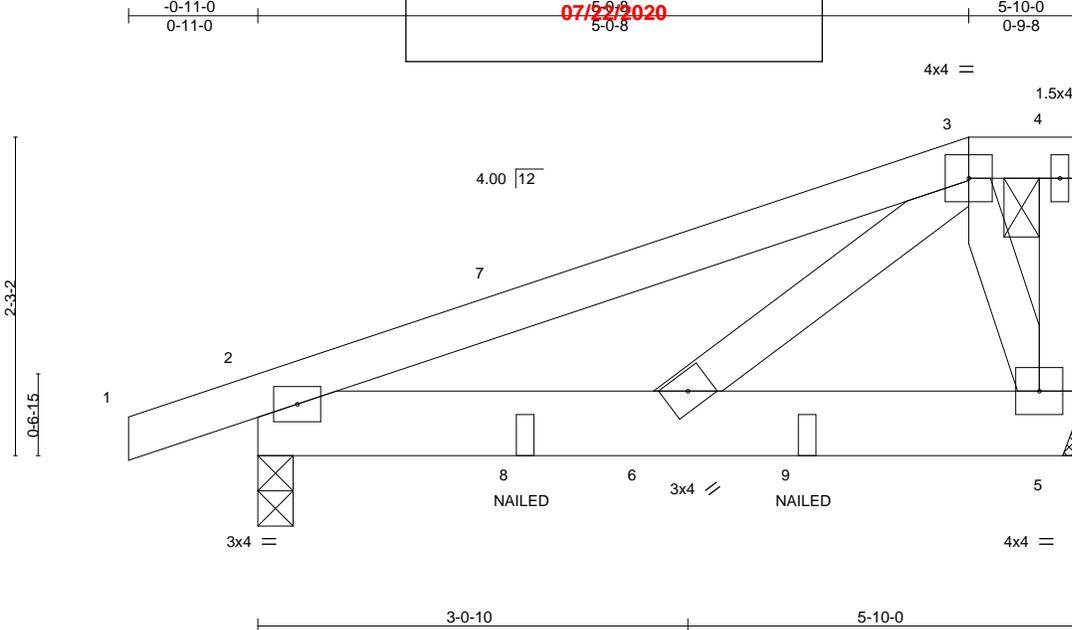
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		1021 SW Armie St, Lee's Summit, MO
P200271	JB4	Half Hip Girder	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES		I42022338
Christensen Building Components, Fremont, NE			LEE'S SUMMIT, MISSOURI		

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

1021 SW Armie St, Lee's Summit, MO
 Job Reference (optional)
 142022338

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:24 2020 Page 1
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07/22/2020



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) -0.00 6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.01 6 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=Mechanical, 2=0-3-0
 Max Horz 2=59(LC 48)
 Max Uplift 5=-40(LC 8), 2=-61(LC 8)
 Max Grav 5=313(LC 34), 2=466(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-342/15
 BOT CHORD 2-6=-25/259
 WEBS 3-5=-275/44

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; 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 2.00 times flat roof load of 17.3 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 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) 5.
 - 9) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
 - 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-55, 3-4=-55, 2-5=-20



July 15, 2020

Continued on page 2

Job P200271	Truss JB4	Truss Type Half Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/22/2020	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022338 Job Reference (optional)
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Christensen Building Components, Fremont, NE

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 8=-79(F) 9=-47(F)

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:24 2020 Page 2
 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-N5DNRSyZPflv0Rm4_egoJYvxvXjgzHb2HRwgRNyy7wX

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/TP1 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 P200271	Truss JB5	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022339
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Christensen Building Components, Fremont, NE
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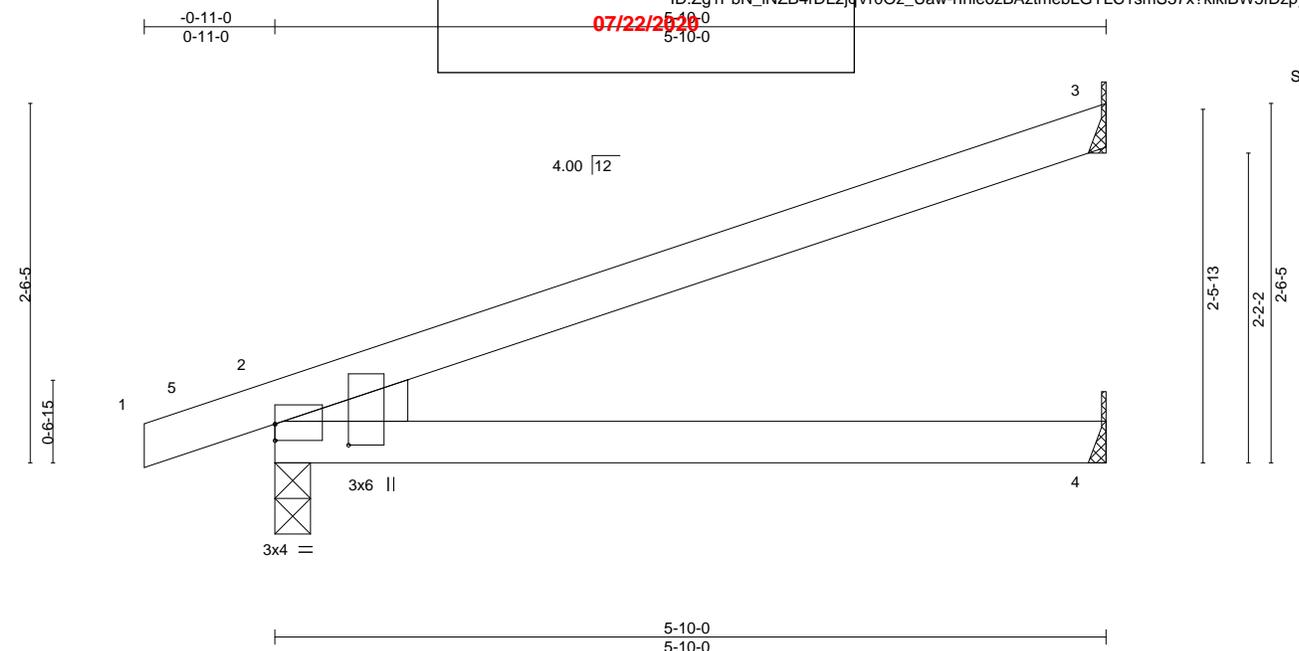


Plate Offsets (X,Y)--	[2:0-0,0-1-6], [2:0-1-12,0-6-3]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.79	in (loc) l/def L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.06 2-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.12 2-4 >556 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-10-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
 Max Horz 2=62(LC 8)
 Max Uplift 3=55(LC 12), 2=27(LC 8)
 Max Grav 3=224(LC 19), 2=363(LC 19), 4=113(LC 7)

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

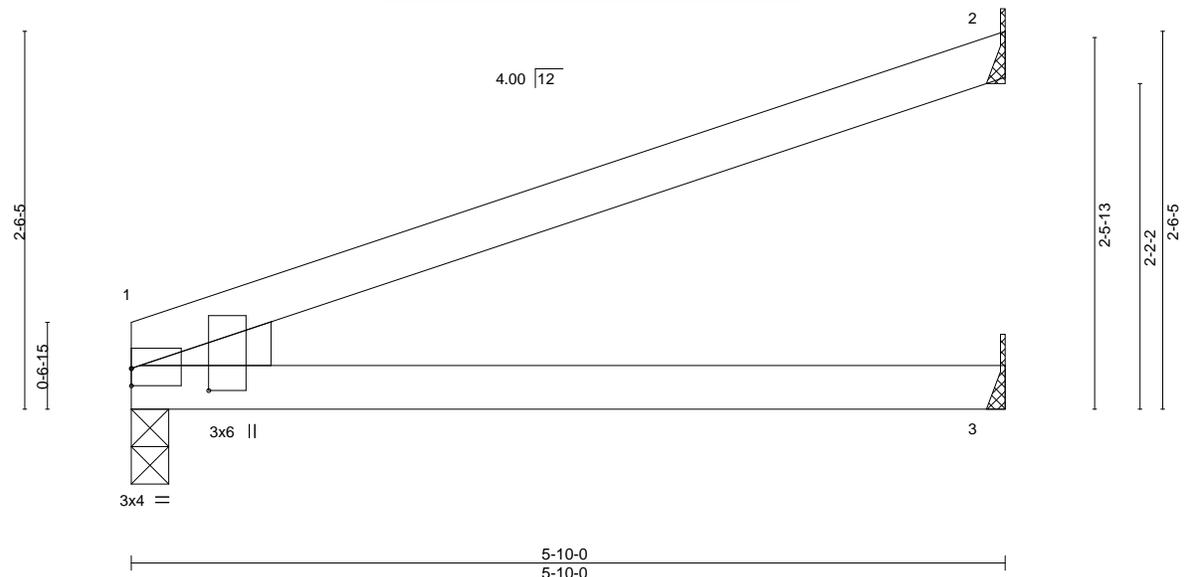
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 2.00 times flat roof load of 17.3 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) 3.
 - 8) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 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.



July 15, 2020

Job P200271	Truss JB6	Truss Type JACK-OPEN	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022340
Christensen Building Components, Fremont, NE		Job Reference (optional) 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:26 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-JUK7r8zpxG?dGlwS63jGOz?DBLLZRyALlIPnWFyy7wV			

5-10-0
07/22/2020
5-10-0



Scale = 1:15.3

Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [1:0-1-12,0-6-3]

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	0.84	Vert(LL)	-0.06	1-3	>999	240
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.12	1-3	>556	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P						
BCDL	10.0									
									Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-10-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-0
 Max Horz 1=61(LC 8)
 Max Uplift 2=-56(LC 8)
 Max Grav 2=230(LC 18), 3=113(LC 7), 1=286(LC 18)

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

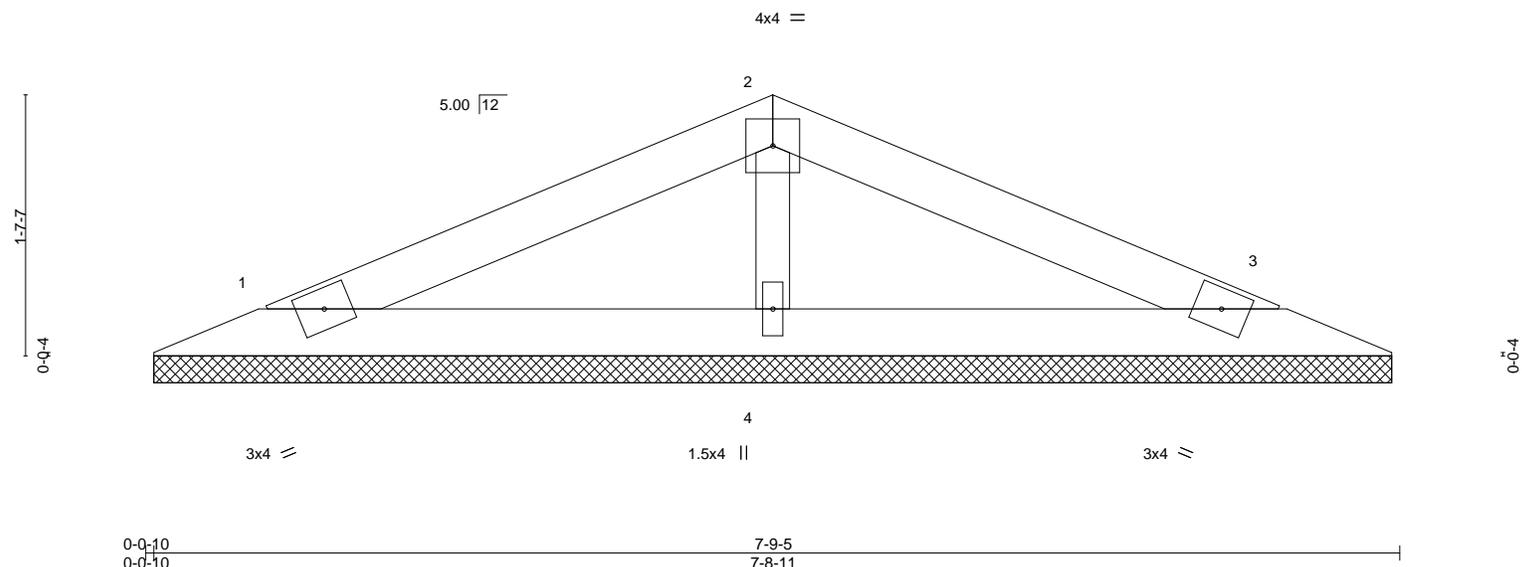
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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) 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.



July 15, 2020

Job P200271	Truss VA1	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022341
Christensen Building Components, Fremont, NE			Job Reference (optional)		
3-10-11 3-10-11			8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:27 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-oguV3U_Sia7UtuVffmEVxBXYTkkcAddUzP8K2iyy7wU 7-9-5 3-10-11		

Scale = 1:14.2



0-0-10 0-0-10	7-9-5 7-8-11						
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP		
TCLL (roof) 25.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	197/144		
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999				
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999				
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 3 n/a n/a				
BCDL 10.0	Code IRC2018/TPI2014					Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	

REACTIONS. (size) 1=7-8-2, 3=7-8-2, 4=7-8-2
 Max Horz 1=16(LC 16)
 Max Uplift 1=-11(LC 12), 3=-14(LC 13)
 Max Grav 1=153(LC 18), 3=153(LC 19), 4=279(LC 2)

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

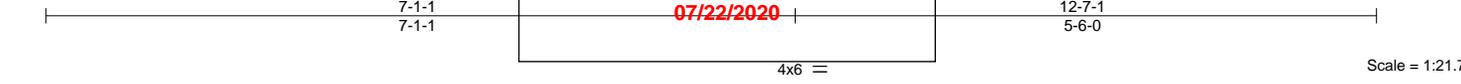
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job P200271	Truss VA2	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO 142022342
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Christensen Building Components, Fremont, NE
 Job Reference (optional)
 ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-k30GUA0iEBNC7Cf1nBGz0cdugYQoeXnnRjdR6ayy7wS
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:29 2020 Page 1

07/22/2020



Scale = 1:21.7

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

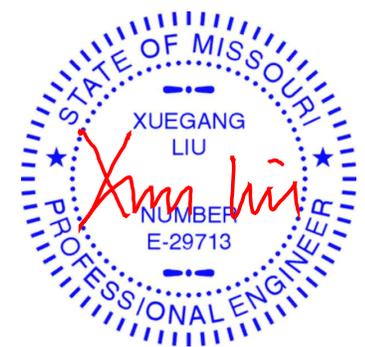
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 12-7-1.
 (lb) - Max Horz 1=33(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 7
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=339(LC 2), 9=398(LC 18), 7=390(LC 19)

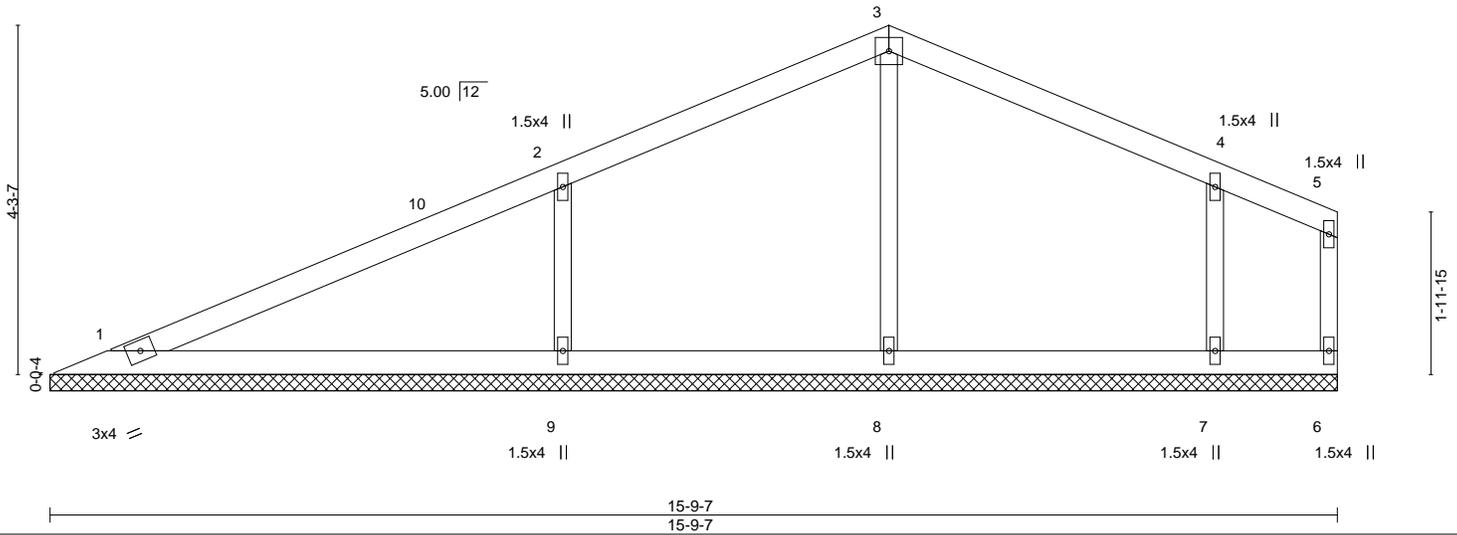
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-8=-254/20, 2-9=-330/80, 4-7=-329/83

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss VA3	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO Job Reference (optional)	I42022343
Christensen Building Components, Fremont, NE		07/22/2020			8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:30 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr00z_Uaw-CFaehW1K?VV3kMEDLvnCZp90qyk2NzTwgNN_f1yy7wR	
		10-3-7 10-3-7			15-9-7 5-6-0	
		4x4 =		Scale = 1:28.1		



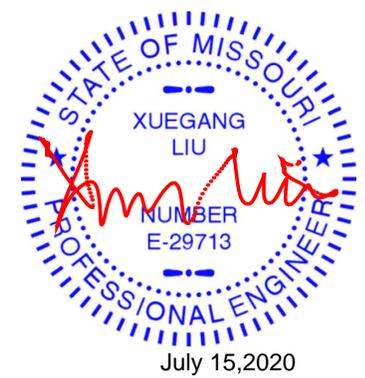
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 15-9-7.
 (lb) - Max Horz 1=51(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 7
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=293(LC 2), 9=553(LC 18), 7=403(LC 19)

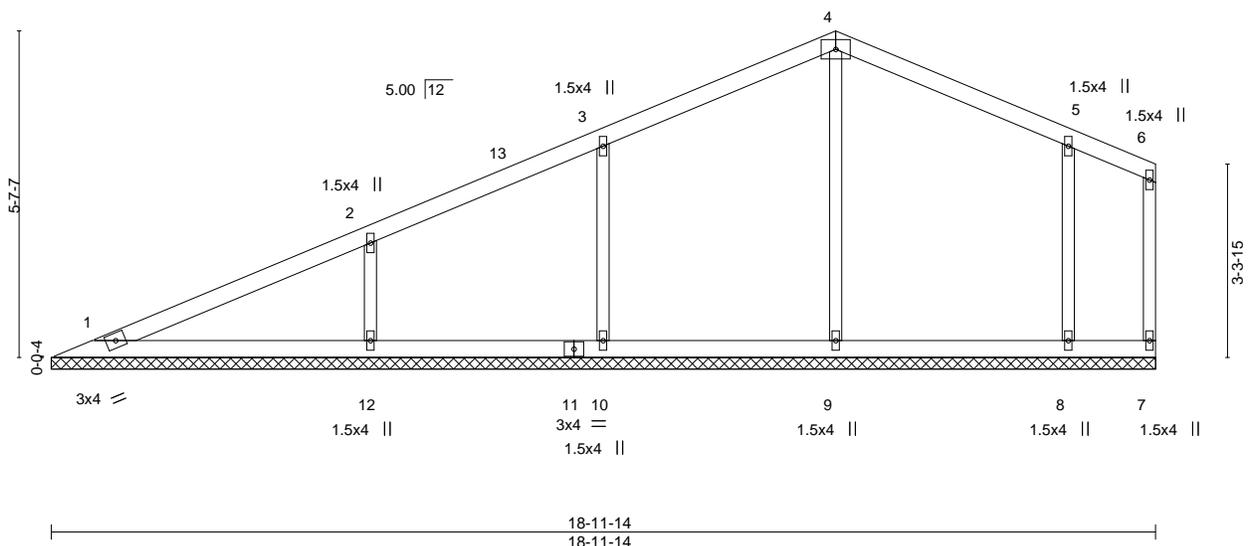
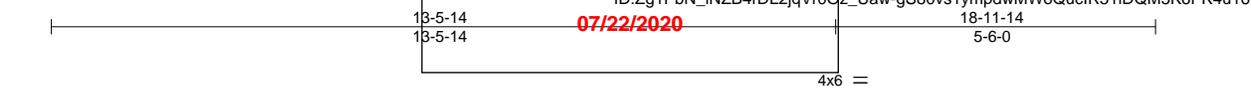
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-421/108, 4-7=-330/81

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job P200271	Truss VA4	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022344
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Christensen Building Components, Fremont, NE
 ID:Zg1PbN_iNZB4rDL2jqVrOCz_Uaw-gS80vs1ympdwMWoQuclR51iDQM5K6PK4u16YBTyy7wQ
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:31 2020 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 58 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 18-11-14.
 (lb) - Max Horz 1=87(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 10, 12, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=349(LC 2), 10=402(LC 18), 12=455(LC 2), 8=389(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-9=-263/16, 3-10=-334/85, 2-12=-333/91, 5-8=-323/82

- 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=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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.
 - N/A
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 15, 2020

Job P200271	Truss VB1	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022345
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:32 2020 Page 1

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07/22/2020 16-6-3 16-7-15 0-1-12

Scale = 1:66.4

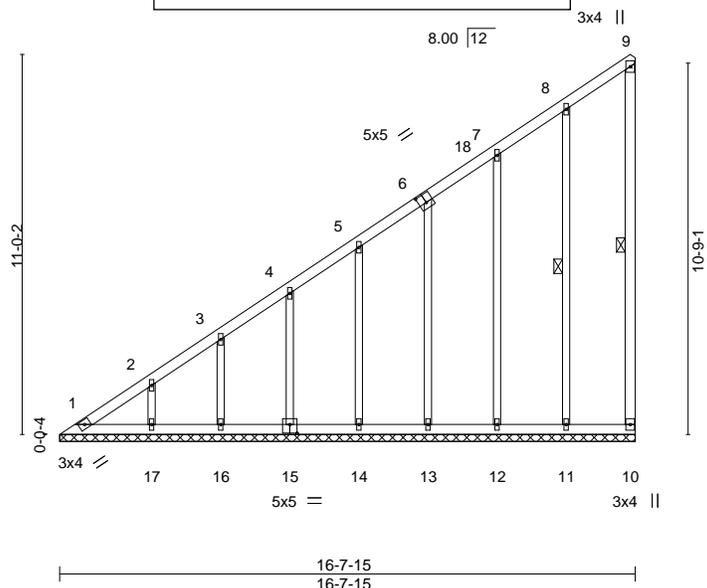


Plate Offsets (X,Y)--	[6:0-2-8,0-3-0], [15:0-2-8,0-3-0]
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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a		
TCDL	10.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.00	10	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 83 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Sheathed 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	WEBS	1 Row at midpt 9-10, 8-11
OTHERS	2x3 SPF No.2		

REACTIONS. All bearings 16-7-15.
 (lb) - Max Horz 1=289(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 1, 11, 12, 13, 14, 15, 16, 17
 Max Grav All reactions 250 lb or less at joint(s) 10, 1, 11, 12, 13, 14, 15, 16, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-267/175

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) N/A
 - 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.



July 15, 2020

Job P200271	Truss VB2	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022346
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Christensen Building Components, Fremont, NE

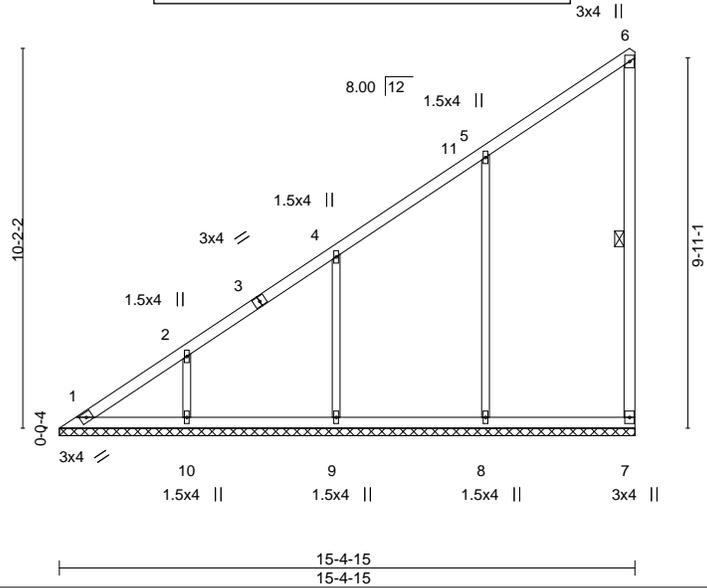
Job Reference (optional)
8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:44 2020 Page 1

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15-3-3
07/22/2020
15-3-3

15-4-15
0-1-12

Scale = 1:61.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.45	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TP12014			Weight: 60 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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	WEBS 1 Row at midpt 6-7
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 15-4-15.
 (lb) - Max Horz 1=266(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 1, 8, 9, 10
 Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=428(LC 18), 9=358(LC 2), 10=348(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 5-8=-343/98, 4-9=-280/118, 2-10=-262/101

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



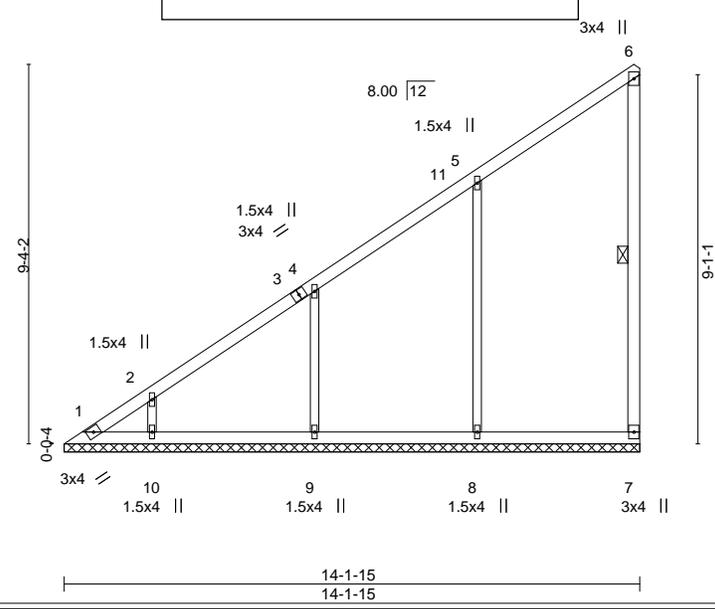
July 15, 2020

Job P200271	Truss VB3	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022347
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Christensen Building Components, Fremont, NE

Job Reference (optional)
8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:46 2020 Page 1
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07/22/2020



Scale = 1:56.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 53 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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	WEBS 1 Row at midpt 6-7
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 14-1-15.
 (lb) - Max Horz 1=244(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 1, 8, 9, 10
 Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=427(LC 18), 9=365(LC 2), 10=303(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 5-8=-342/102, 4-9=-283/118

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 2020

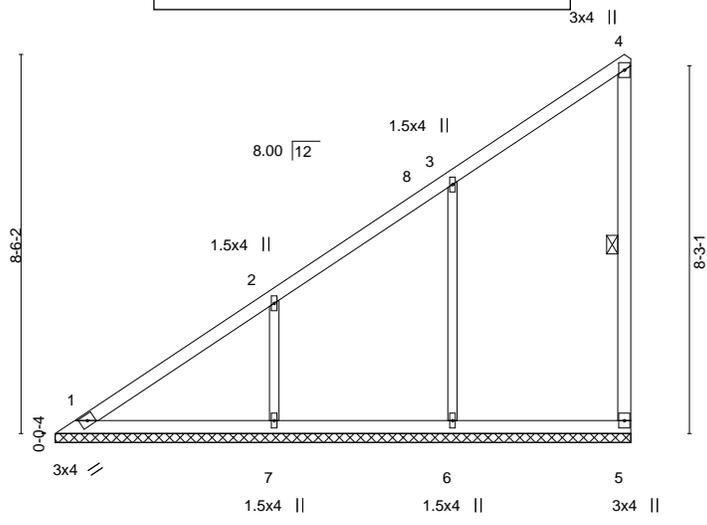
Job P200271	Truss VB4	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022348
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Christensen Building Components, Fremont, NE

Job Reference (optional)
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07/22/2020
12-9-3
12-10-15
0-1-12

Scale = 1:51.4



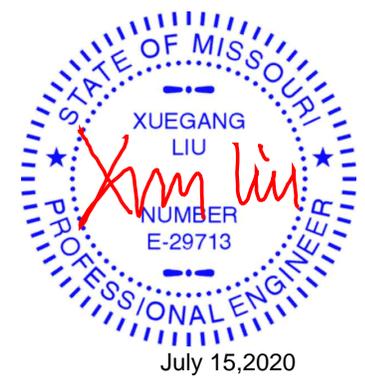
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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	WEBS 1 Row at midpt 4-5
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 12-10-15.
 (lb) - Max Horz 1=221(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=410(LC 18), 7=431(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-334/104, 2-7=-316/124

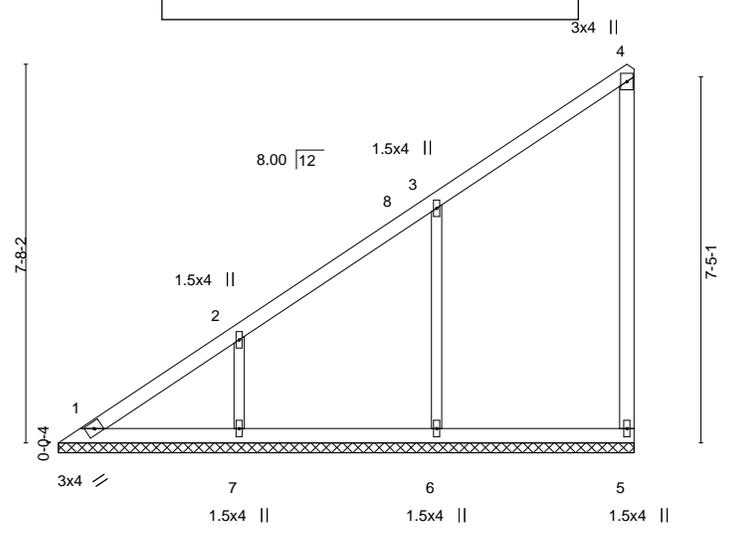
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



Job P200271	Truss VB5	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022349
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Christensen Building Components, Fremont, NE
 Job Reference (optional)
 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:48 2020 Page 1

11-8-2
07/22/2020
11-6-3



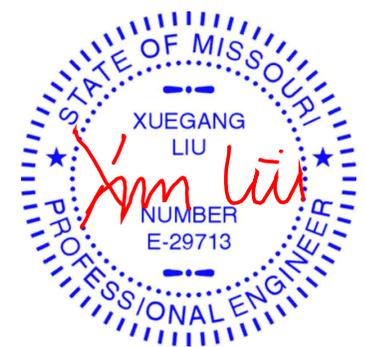
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	

REACTIONS. All bearings 11-7-15.
 (lb) - Max Horz 1=199(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=429(LC 18), 7=352(LC 2)

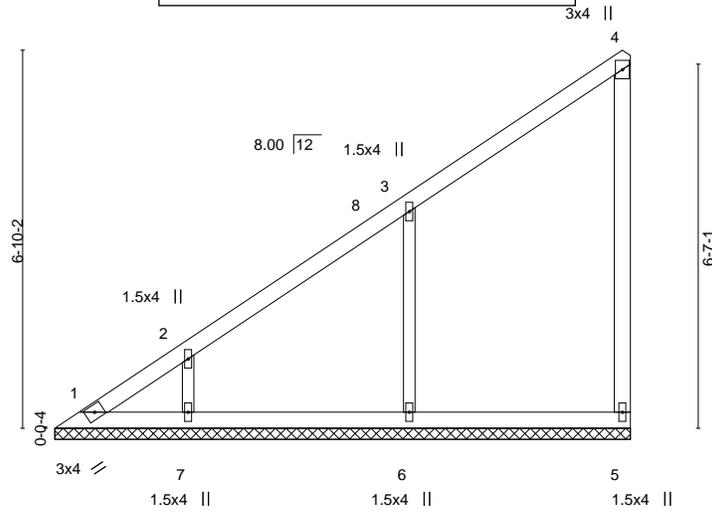
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-345/111, 2-7=-264/106

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 2020

Job P200271	Truss VB6	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022350
Christensen Building Components, Fremont, NE		Job Reference (optional) 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:49 2020 Page 1 ID:Zg1PbN_iNZB4rDL2jqVr0z_Uaw-8vDpg0FFWkuMWHAtyOdgqpSIKcFJKYtj1qUVqQyy7w8 07/22/2020 10-4-15 10-3-3 0-1-12			



Scale = 1:41.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-4-15.
(lb) - Max Horz 1=176(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=437(LC 18), 7=298(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-350/115

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 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



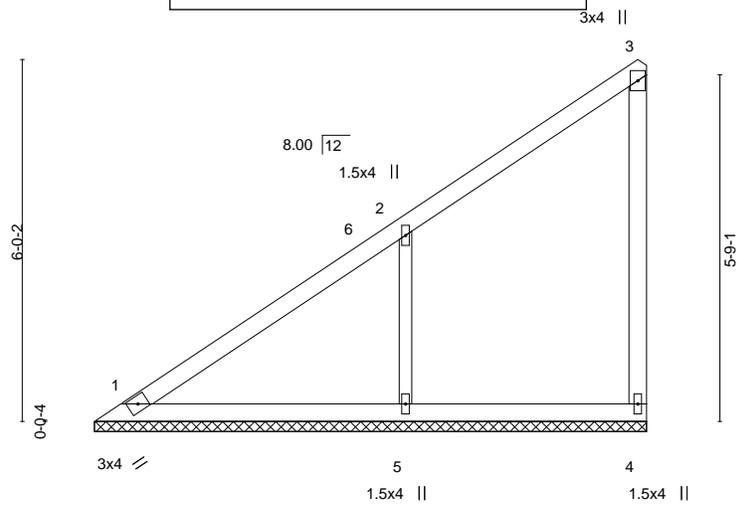
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job P200271	Truss VB7	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022351
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:51 2020 Page 1

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07/22/2020 9-1-15 9-0-3 0-1-12



Scale = 1:38.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	

REACTIONS. (size) 1=9-1-15, 4=9-1-15, 5=9-1-15
 Max Horz 1=154(LC 11)
 Max Uplift 4=-20(LC 9), 5=-84(LC 12)
 Max Grav 1=179(LC 26), 4=169(LC 18), 5=496(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-380/128

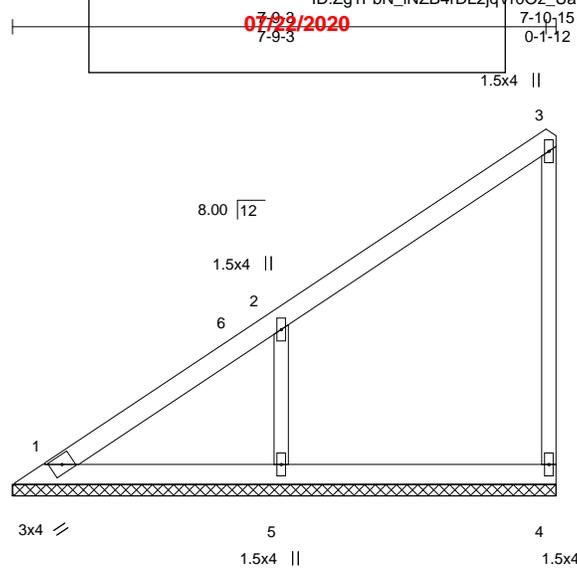
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 2020

Job P200271	Truss VB8	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022352
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Christensen Building Components, Fremont, NE



Scale = 1:33.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) 1=7-10-15, 4=7-10-15, 5=7-10-15
 Max Horz 1=132(LC 9)
 Max Uplift 4=-16(LC 9), 5=-73(LC 12)
 Max Grav 1=127(LC 26), 4=176(LC 18), 5=454(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-363/128

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.

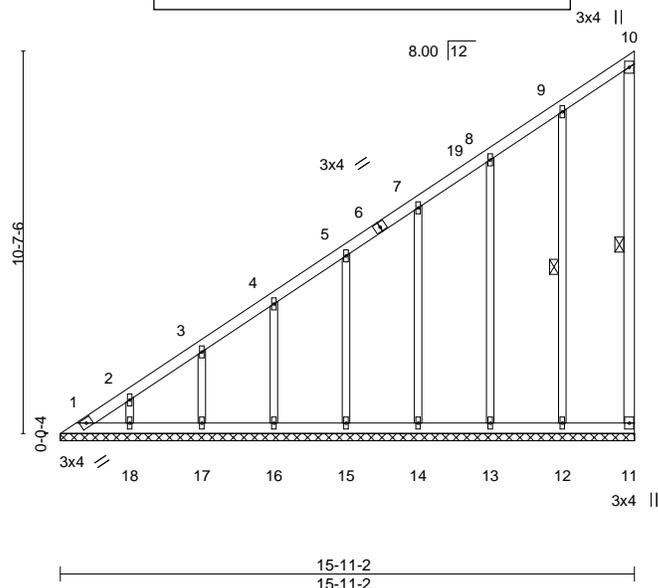


July 15, 2020

Job P200271	Truss VB9	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022353
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Christensen Building Components, Fremont, NE 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:54 2020 Page 1
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07/22/2020



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.24	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 11 n/a n/a		
BCDL 10.0	Code IRC2018/TP12014			Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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	WEBS 1 Row at midpt 10-11, 9-12
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 15-11-2.
 (lb) - Max Horz 1=276(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 1, 12, 13, 14, 15, 16, 17, 18
 Max Grav All reactions 250 lb or less at joint(s) 11, 1, 12, 13, 14, 15, 16, 17, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-257/167

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) N/A
 - 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.



July 15, 2020

Job P200271	Truss VB10	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022354
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:33 2020 Page 1
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07/22/2020
13-11-2

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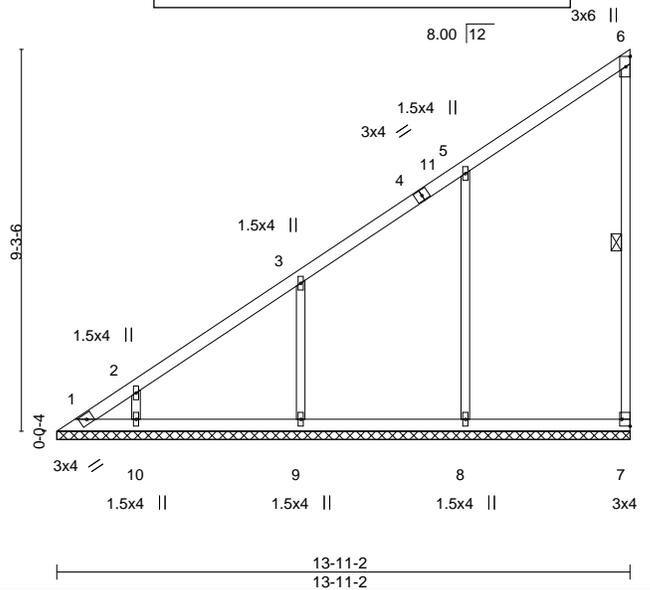


Plate Offsets (X,Y)-- [7:Edge,0-2-8]

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	0.48	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg)	17.3/25.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a		
TCDL	10.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	-0.00	7	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 50 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS. All bearings 13-11-2.
(lb) - Max Horz 1=240(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 1, 8, 9, 10
Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=435(LC 18), 9=362(LC 2), 10=303(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-349/101, 3-9=-281/118

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 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 P200271	Truss VB11	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022355
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:34 2020 Page 1
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07/12/2020

Scale: 1/4"=1'

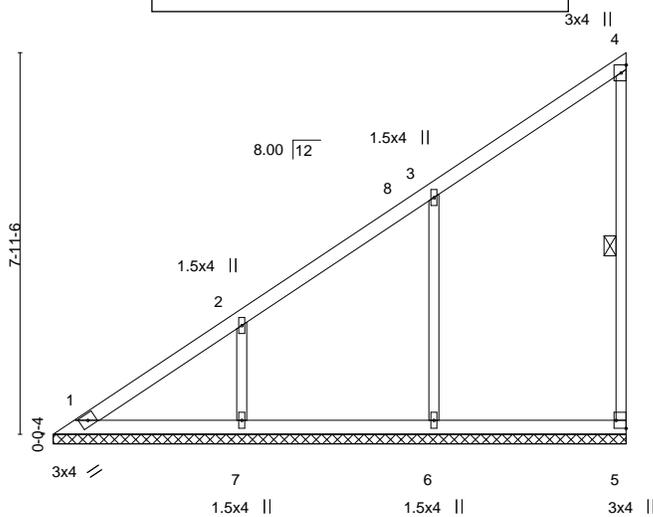


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. All bearings 11-11-2.
(lb) - Max Horz 1=204(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=435(LC 18), 7=365(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-351/109, 2-7=-272/109

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 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

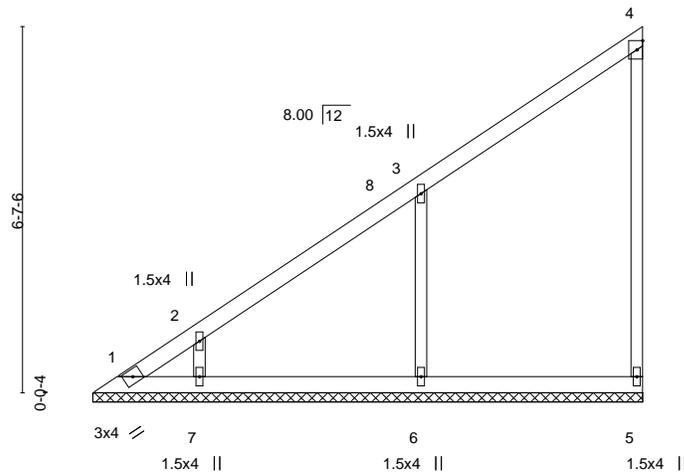


Job P200271	Truss VB12	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022356
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Christensen Building Components, Fremont, NE

Job Reference (optional)
8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:35 2020 Page 1
ID:Zg1PbN_iNZB4rDL2jVr0Oz_Uaw-ZDNXkD4Tp17Lr76B7SNOGttvzT_2EFfpf5IKEye7wM

07/22/2020
9-11-2



Scale = 1:41.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-11-2.
(lb) - Max Horz 1=168(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=447(LC 18), 7=287(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-358/116

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



July 15, 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



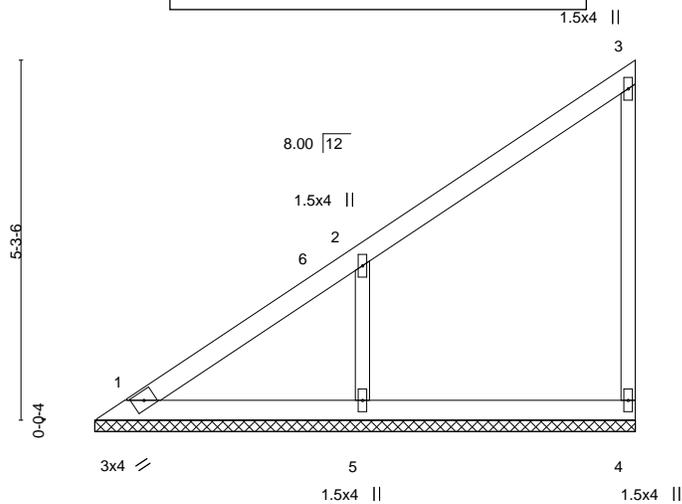
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job P200271	Truss VB13	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022357
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:37 2020 Page 1
ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-VbVHV6jLfn34RGaFtPsLlyF?m9QW8VyHzasP7yy7wK

07/22/2020



Scale = 1:33.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed 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 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) 1=7-11-2, 4=7-11-2, 5=7-11-2
 Max Horz 1=132(LC 9)
 Max Uplift 4=-17(LC 9), 5=-73(LC 12)
 Max Grav 1=128(LC 26), 4=176(LC 18), 5=455(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-363/128

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



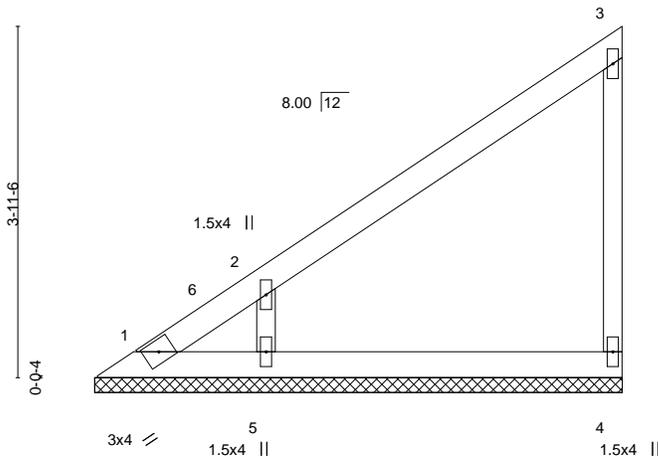
July 15, 2020

Job P200271	Truss VB14	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022358
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Christensen Building Components, Fremont, NE

Job Reference (optional)
8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:39 2020 Page 1
ID:Zg1PbN_iNZB4rDL2jcvr0Oz_Uaw-R_d2ab7ztGdnJlQyMISKQj1aUaq7_3BFkH3zT?yy7wl
07/22/2020
5-11-2
5-11-2
1.5x4 ||

Scale = 1:25.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 4 n/a n/a	Weight: 17 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 5-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. (size) 1=5-11-2, 4=5-11-2, 5=5-11-2
 Max Horz 1=96(LC 9)
 Max Uplift 1=54(LC 18), 4=11(LC 9), 5=64(LC 12)
 Max Grav 1=54(LC 12), 4=178(LC 18), 5=440(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-5=-359/113

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



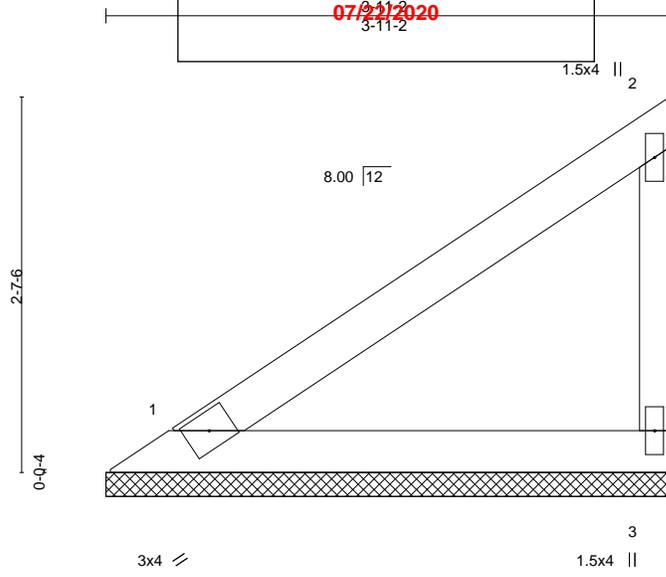
July 15, 2020

Job P200271	Truss VB15	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022359
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Christensen Building Components, Fremont, NE

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 14 13:39:41 2020 Page 1
ID:Zg1PbN_iNZB4rDL2jqVr0Oz_Uaw-NNko?G9EPtuVZ2ZLUiUoV87wzOWSSzfYBbY4Yuy7wG

07/21/2020



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 3-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 1=3-11-2, 3=3-11-2
 Max Horz 1=60(LC 9)
 Max Uplift 3=-17(LC 12)
 Max Grav 1=176(LC 18), 3=176(LC 18)

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

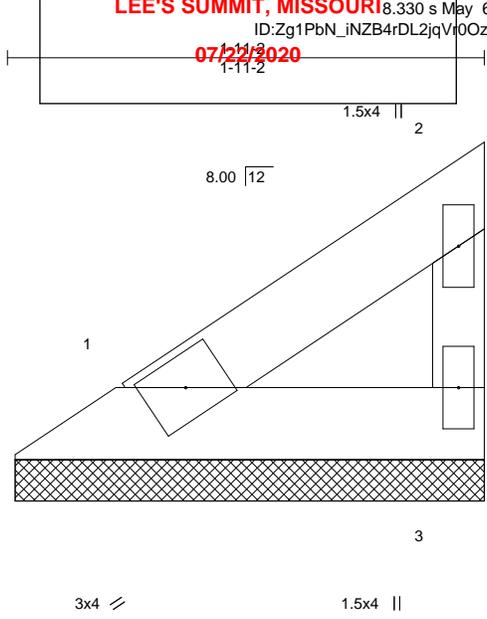
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A.
 - 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.



July 15, 2020

Job P200271	Truss VB16	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	1021 SW Armie St, Lee's Summit, MO I42022360
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Christensen Building Components, Fremont, NE



Scale = 1:9.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 17.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 5 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Sheathed or 1-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 1=1-10-12, 3=1-10-12
 Max Horz 1=24(LC 9)
 Max Uplift 3=7(LC 12)
 Max Grav 1=63(LC 18), 3=63(LC 18)

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

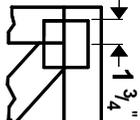
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=17.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) N/A
 - 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.



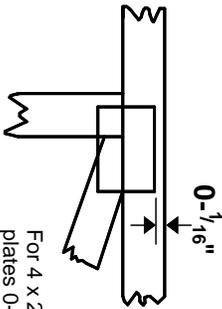
July 15, 2020

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- 1/16" from outside edge of truss.



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

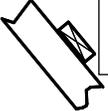
Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE



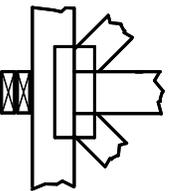
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



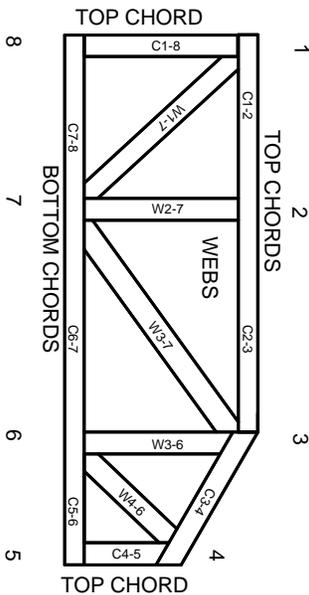
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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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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.



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