



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

12/16/2020

RE: HT 32
Lot 32 HT

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

Site Information:

Customer: Project Name: HT 32
Lot/Block:
Address:
City:

Model:
Subdivision:
State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014
Wind Code: N/A
Roof Load: 45.0 psf

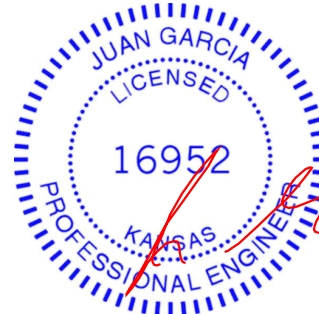
Design Program: MiTek 20/20 8.4
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 111 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I43726152	A1A	11/23/2020	21	I43726172	G4	11/23/2020
2	I43726153	A3	11/23/2020	22	I43726173	G5	11/23/2020
3	I43726154	B1	11/23/2020	23	I43726174	H1	11/23/2020
4	I43726155	B2	11/23/2020	24	I43726175	H2	11/23/2020
5	I43726156	B3	11/23/2020	25	I43726176	H3	11/23/2020
6	I43726157	C1	11/23/2020	26	I43726177	H4	11/23/2020
7	I43726158	C2	11/23/2020	27	I43726178	H5	11/23/2020
8	I43726159	C3	11/23/2020	28	I43726179	H6	11/23/2020
9	I43726160	D1	11/23/2020	29	I43726180	H7	11/23/2020
10	I43726161	D2	11/23/2020	30	I43726181	H8	11/23/2020
11	I43726162	D3	11/23/2020	31	I43726182	H9	11/23/2020
12	I43726163	D4	11/23/2020	32	I43726183	J1	11/23/2020
13	I43726164	D5	11/23/2020	33	I43726184	J2	11/23/2020
14	I43726165	D6	11/23/2020	34	I43726185	J3	11/23/2020
15	I43726166	E1	11/23/2020	35	I43726186	J4	11/23/2020
16	I43726167	E2	11/23/2020	36	I43726187	J5	11/23/2020
17	I43726168	E3	11/23/2020	37	I43726188	J6	11/23/2020
18	I43726169	G1	11/23/2020	38	I43726189	J7	11/23/2020
19	I43726170	G2	11/23/2020	39	I43726190	J8	11/23/2020
20	I43726171	G3	11/23/2020	40	I43726191	J9	11/23/2020

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Kansas is April 30, 2022.
Kansas COA: E-943

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



November 23, 2020



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54	I43726205	J23	11/23/2020	98	I43726249	LAY6	11/23/2020
55	I43726206	J24	11/23/2020	99	I43726250	LAY7	11/23/2020
56	I43726207	J25	11/23/2020	100	I43726251	LAY8	11/23/2020
57	I43726208	J26	11/23/2020	101	I43726252	M1	11/23/2020
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79	I43726230	J50	11/23/2020				
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Roof Load: 45.0 psf

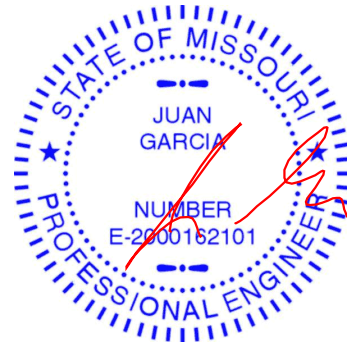
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MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Missouri is December 31, 2020.
Missouri COA: 001193

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84	I43726235	K2	11/23/2020				

Job: HT 32

Truss: A1A

Truss Type: Hip Girder

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply: 1

Lot 32 HT

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:34 2020 Page 1

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-2qXaD??142Hf2vv43itfLsSCyXM5gORgFxQDeDyHE?J

5-7-8

5-7-8

10-3-8

4-8-0

15-11-8

5-8-0

16-10-0

0-10-8

Scale = 1:27.4

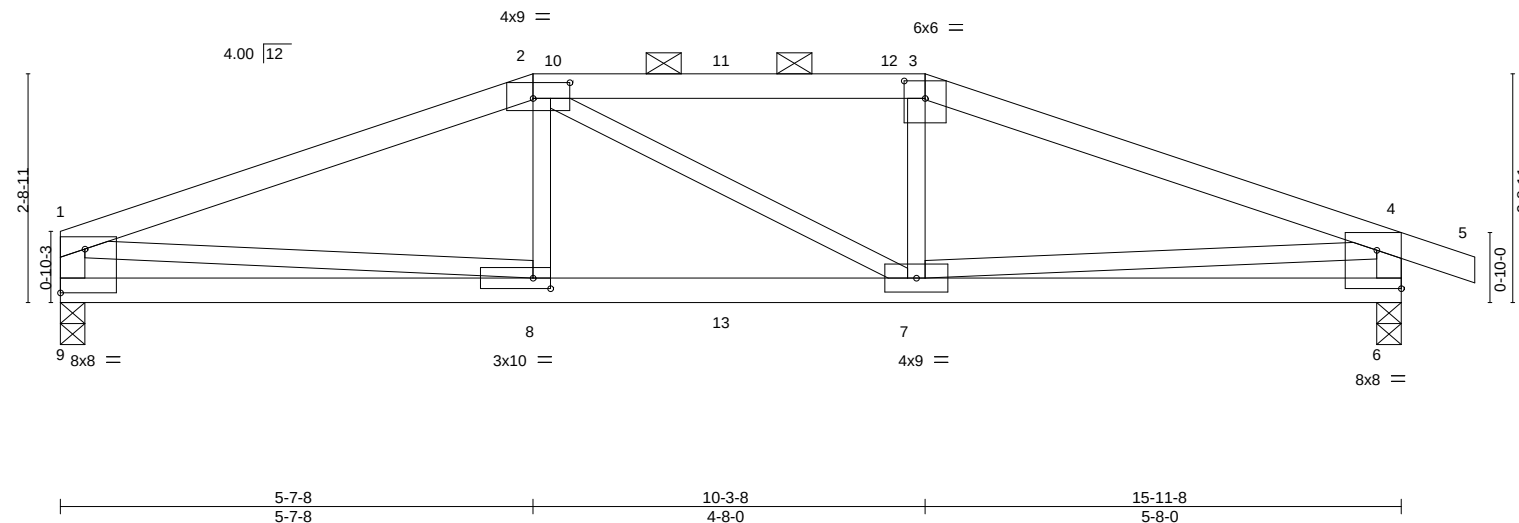


Plate Offsets (X,Y)--		[2:0-5-4,0-2-4], [3:0-3-0,0-2-8], [6:Edge,0-5-8], [8:0-2-8,0-1-8], [9:Edge,0-6-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.71
TCDL 10.0	Lumber DOL	1.15	BC 0.63
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.09	7-8	>999
Vert(CT)	-0.15	7-8	>999
Horz(CT)	0.02	6	n/a
Wind(LL)	0.07	7-8	>999
PLATES	GRIP		
MT20	197/144		
Weight: 55 lb		FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-2 max.): 2-3.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-11-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-9,4-6: 2x4 SPF No.2	

REACTIONS.	(size)
9=0-3-8, 6=0-3-8	
Max Horz 9=-25(LC 13)	
Max Uplift 9=-247(LC 4), 6=-291(LC 5)	
Max Grav 9=1086(LC 1), 6=1161(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2121/507, 2-3=-1958/501, 3-4=-2123/504, 1-9=-1021/274, 4-6=-1096/318
BOT CHORD	8-9=-95/366, 7-8=-435/1961, 6-7=-132/480
WEBS	2-8=0/281, 3-7=0/292, 1-8=-368/1595, 4-7=-333/1490

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 9=247, 6=291.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 77 lb up at 5-11-8, and 90 lb down and 77 lb up at 7-11-8, and 90 lb down and 77 lb up at 9-11-8 on top chord, and 253 lb down and 100 lb up at 5-7-8, 38 lb down at 5-11-8, 38 lb down at 7-11-8, and 38 lb down at 9-11-8, and 253 lb down and 100 lb up at 10-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Continued on page 2

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

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

November 23,2020

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
HT 32	A1A	Hip Girder	AS NOTED ON PLANS, REVIEW DEVELOPMENT SERVICES		Lot 32 HT I43726152
Wheeler Lumber, Waverly, KS - 66871,			LEE'S SUMMIT, MISSOURI		Job Reference (optional)
			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:34 2020 Page 2		
			ID:M6_qRErj_ax8BApGKEbrTSyOHsj-2qXaD??I42Hf2vv43itfLsSCyXM5gORgFxQDeDyHE?J		
			12/16/2020		

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-281(F) 7=-281(F) 10=-58(F) 11=-58(F) 12=-58(F) 13=-29(F)

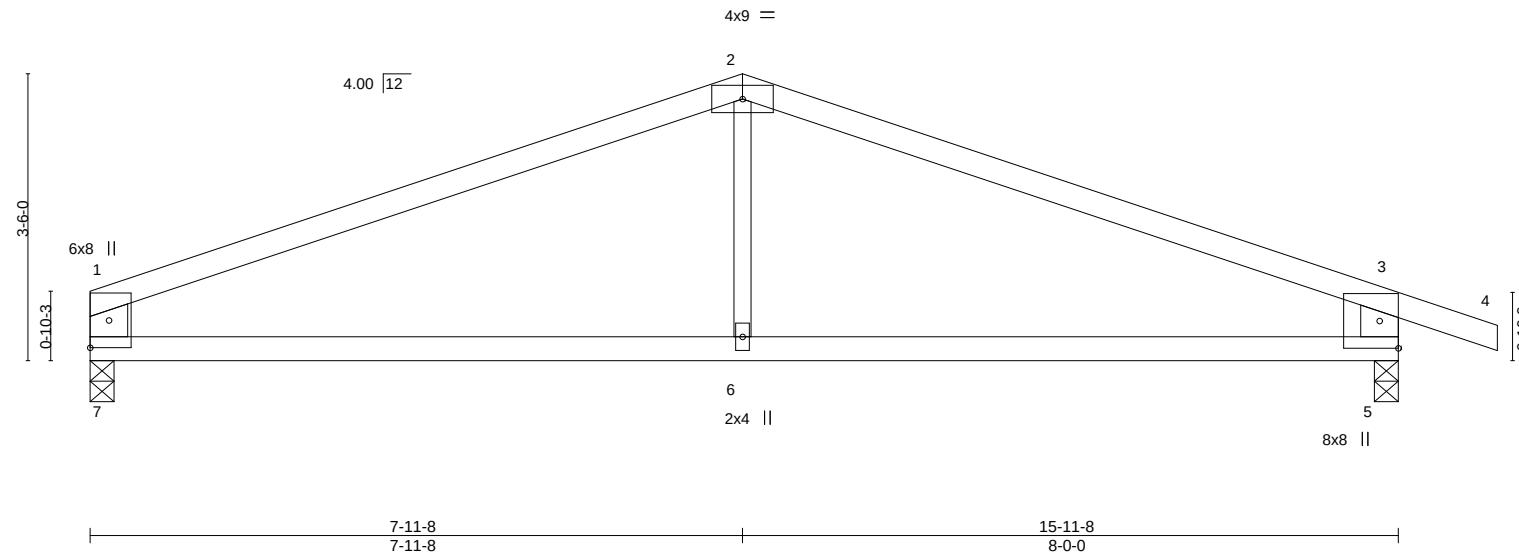
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HT 32	A3	Common			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,				8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:35 2020 Page 1		ID:M6_qRERj_ax8BApGKEbrTSyOHsj-W14yRL0wrLPWf3UHdPOuu3?KjwiWPylpTb9nAfyHE?l	
7-11-8 7-11-8				15-11-8 8-0-0		17-2-0 1-2-8	
Scale = 1:28.1							



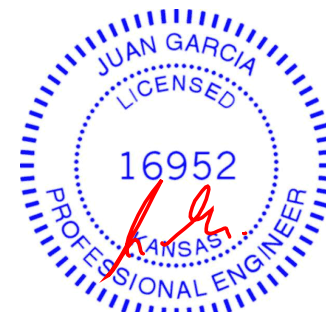
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.10	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.23				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.06	Weight: 43 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SP DSS *Except*		
	2-6: 2x3 SPF No.2		

REACTIONS.	
(size)	7=0-3-8, 5=0-3-8
Max Horz	7=-42(LC 13)
Max Uplift	7=-101(LC 4), 5=-165(LC 5)
Max Grav	7=693(LC 1), 5=803(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1035/136, 2-3=-1041/142, 1-7=-595/147, 3-5=-715/213
BOT CHORD	6-7=-61/892, 5-6=-61/892
WEBS	2-6=0/304

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=101, 5=165.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING	SPACING-	CSI.	DEFL.	PLATES	GRIP
(psf)	2-0-0		in (loc) l/defl L/d		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.23 10 >617 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.41 10 >348 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.16 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.21 10 >663 240	Weight: 44 lb	FT = 10%

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E *Except*
	8-10: 2x6 SPF 1650F 1.4E
WEBS	2x3 SPF No.2

TOP CHORD	Structural wood sheathing directly applied or 1-6-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-9 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 8-6-2 oc bracing.

Max Horz 12=99(LC 26)
Max Uplift 12=-211(LC 4), 8=-256(LC 4)
Max Grav 12=850(LC 1), 8=1000(LC 1)

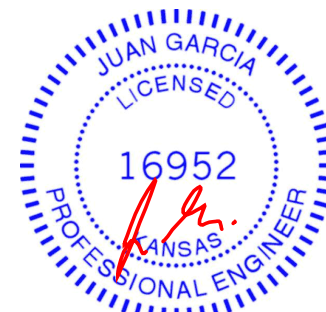
TOP CHORD 2-12=-853/259, 2-3=-3131/793, 3-4=-4744/1262, 4-5=-4588/1256, 5-6=-2332/620,
6-7=-2332/620, 7-8=-862/240

BOT CHORD 11-12=-163/318, 10-11=-849/3089, 9-10=-897/3297

WEBS 2-11=-651/2632, 3-11=-528/190, 3-10=-406/1551, 4-10=-91/318, 5-10=-465/1751,
5-9=-1017/310, 7-9=-595/2277

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=211, 8=256.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 98 lb up at 8-0-0, and 108 lb down and 98 lb up at 10-0-0 on top chord, and 436 lb down and 157 lb up at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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Continued on page 2



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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	B1	Half Hip Girder		1		I43726154
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:36 2020 Page 2			Job Reference (optional)
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-_DeKeh1YcfXNHC2TB7v7RHXV4K1Z8CMyiFvKj6yHE?H			

LOAD CASE(S)
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-5=-70, 5-7=-70, 10-12=-20, 8-10=-20
- Concentrated Loads (lb)
- Vert: 13=-100(F) 14=-100(F) 15=-436(F) 16=-42 17=-42


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			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020					
Job	Truss	Truss Type	Qty	Ply	Lot 32 HT			
HT 32	B2	Half Hip	1	1	I43726155			
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)					
-0-10-8			6-3-8			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:36 2020 Page 1		
0-10-8			6-3-8			ID:M6_qRERj_ax8BApGKEbrTSyOHSj_DeKeh1YcfXNHC2TB7v7RHXYXK5b8GNyiFvKj6yHE?H		
			9-6-14			11-8-8		
			3-3-6			2-1-10		

Scale = 1:26.4

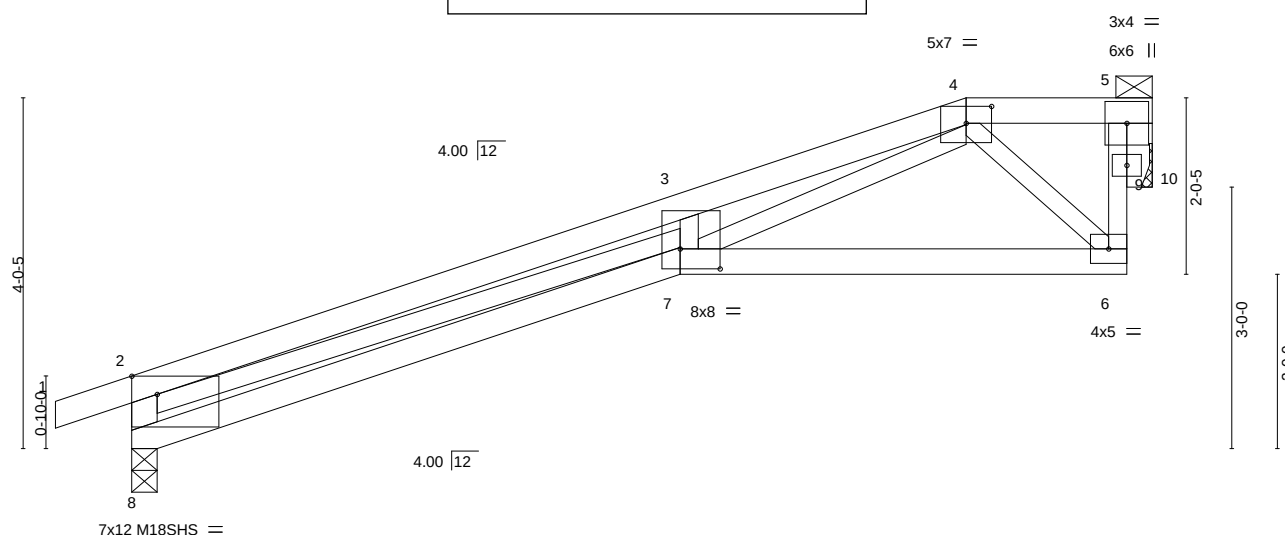


Plate Offsets (X,Y)--	[4:0-3-8,0-2-5], [7:0-5-8,0-2-12], [8:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.20	7	>698	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.36	7	>388	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.08	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12	7	>999	Weight: 41 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-1 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 *Except*	
2-8: 2x4 SPF 2400F 2.0E	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 8=0-3-8, 10=Mechanical
Max Horz 8=94(LC 5)
Max Uplift 8=43(LC 4), 10=37(LC 4)
Max Grav 8=592(LC 1), 10=485(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-732/122, 2-3=-2344/169, 3-4=-2316/229, 6-9=-26/465, 5-9=-26/465
BOT CHORD 7-8=-159/728, 6-7=-43/510
WEBS 2-7=-64/1493, 3-7=-256/105, 4-7=-191/1886, 4-6=-557/73, 5-10=-518/39

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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0-10-0-4
0-10-8
6-3-8
6-3-8
12/16/2020
11-8-8
5-5-0
3x4 =
5x7 =
4
4.00 12
3
6x12 =
5
5x7 =
8
9
2-8-13
3-0-0
2-0-0
0-10-0-4
2
8x8 =
7
4.00 12
6-3-8
6-3-8
11-8-8
5-5-0
Scale = 1:28.1

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-4 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 3-5
	2-7: 2x6 SPF No.2		
OTHERS	2x4 SPF No.2		

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

TOP CHORD	2-7=-727/121, 2-3=-2366/182, 5-8=-5/337, 4-8=-5/337
BOT CHORD	6-7=-173/707, 5-6=-224/2065
WEBS	2-6=-76/1537, 3-6=0/629, 3-5=-1944/225, 4-9=-505/46

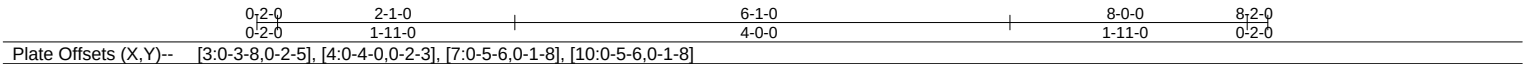
NOTES:-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9.
- 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.



November 23, 2020

Scale = 1:18.6



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SPF No.2		
WEBS	2x3 SPF No.2 *Except* 2-10,5-7: 2x4 SPF No.2	BOT CHORD	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-454/119, 3-4=-387/111, 4-5=-454/120, 2-10=-344/120, 5-7=-344/121
 BOT CHORD 9-10=-80/387, 8-9=-74/387, 7-8=-78/388

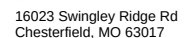
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20



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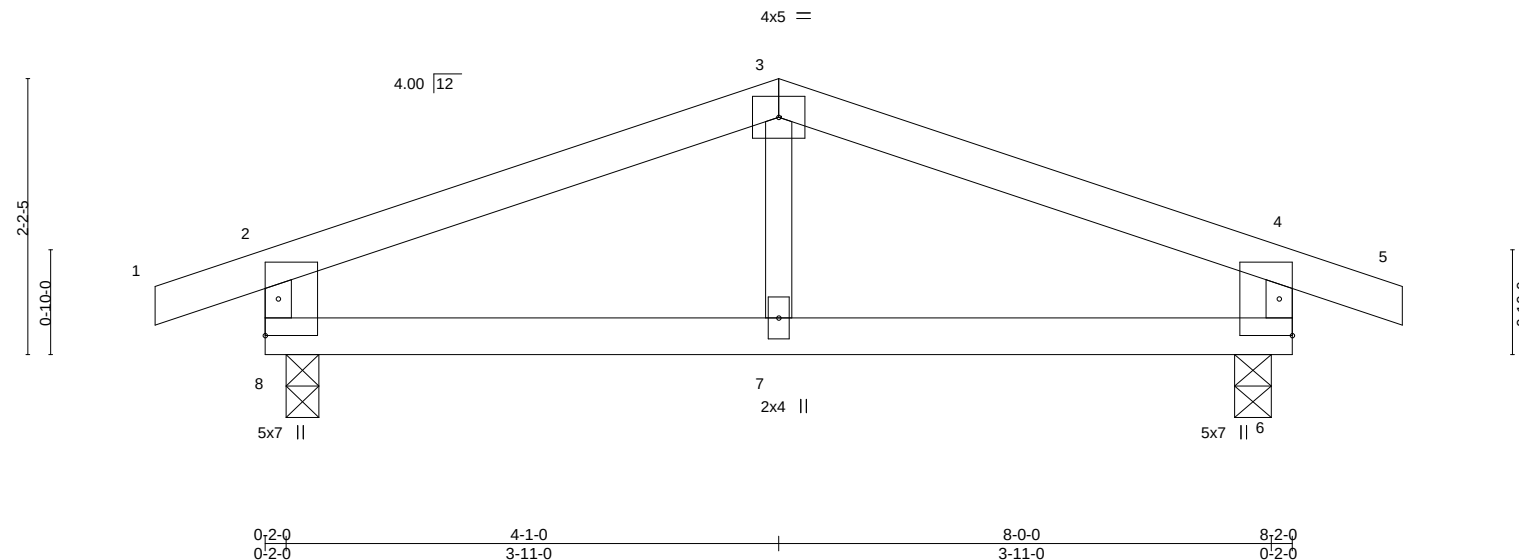
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	C1	Hip Girder		1		I43726157
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:38 2020 Page 2			Job Reference (optional)
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=2(F) 8=2(F) 12=0(F)			ID:M6_qRERj_ax8BApGKEbrTSyOHSj-wbm43N2o8Gn5WWCrIXbWid_a8o_cKYFAYORn_yHE?F			

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	C2	Common			1	I43726158
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:39 2020 Page 1 ID:M6_qRERj_ax8BapGKEbrTSyOHsj-OoKTHj3Rvavy8gn2sFTq2v98uY9ILnZPOC7_JRyHE?E			
-0-10-8 0-10-8			4-1-0 4-1-0		8-2-0 4-1-0	
					9-0-8 0-10-8	

Scale = 1:18.3



0-2-0 0-2-0		4-1-0 3-11-0		8-0-0 3-11-0		8-2-0 0-2-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.02	7	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.05	7	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	6	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	7	>999
						PLATES	GRIP
						MT20	197/144
						Weight: 23 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 8=0-3-2, 6=0-3-8
 Max Horz 8=-13(LC 19)
 Max Uplift 8=-95(LC 4), 6=-95(LC 5)
 Max Grav 8=427(LC 1), 6=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-421/62, 3-4=-421/62, 2-8=-359/116, 4-6=-359/116
 BOT CHORD 7-8=-14/347, 6-7=-14/347

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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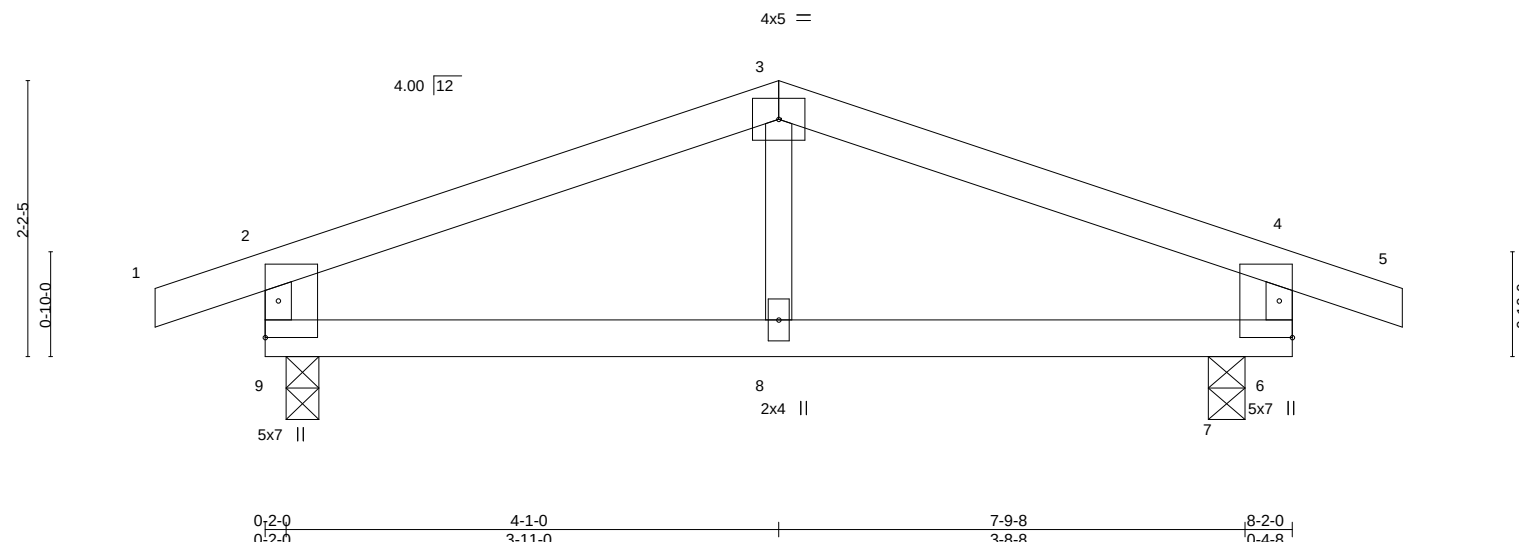
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 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	C3	Common			1	I43726159
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)			
			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:40 2020 Page 1 ID:M6_qRERj_ax8BApGKEbrTSyOHSj-s_urU243gu1omqMEQy_3b7iJxSQ4EzYdstYstyHE?D			
0-10-8 0-10-8 4-1-0 4-1-0			8-2-0 4-1-0 9-0-8 0-10-8			

Scale = 1:18.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.03 8-9	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.05 8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02 8-9	>999	240	Weight: 23 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 9=0-3-2, 7=0-3-8

Max Horz 9=13(LC 20)

Max Uplift 9=93(LC 4), 7=-109(LC 5)

Max Grav 9=403(LC 1), 7=450(LC 1)

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

TOP CHORD 2-3=-353/48, 3-4=-355/56, 2-9=-331/114, 4-6=-339/113

BOT CHORD 8-9=-10/284, 7-8=-10/284, 6-7=-10/284

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=109.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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

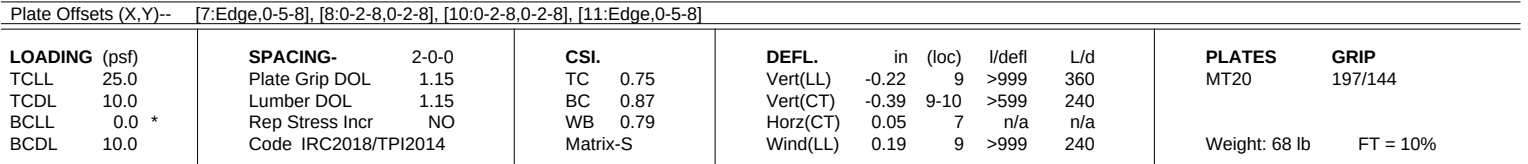
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

12/16/2020

Scale = 1:34.6



REACTIONS. (size) 11=Mechanical, 7=0-3-8
 Max Horz 11=-14(LC 25)
 Max Uplift 11=-294(LC 4), 7=-338(LC 5)
 Max Grav 11=1342(LC 1), 7=1417(LC 1)

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

TOP CHORD	1-2=-2706/590, 2-3=-4042/904, 3-4=-4042/904, 4-5=-2696/585, 1-11=-1298/301, 5-7=-1374/346
BOT CHORD	10-11=-66/273, 9-10=-533/2540, 8-9=-521/2524, 7-8=-78/316
WEBS	2-9=-362/1624, 3-9=-716/317, 4-9=-366/1634, 1-10=-470/2293, 5-8=-449/2235

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=294, 7=338.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 68 lb up at 4-0-0, 83 lb down and 68 lb up at 6-0-0, 83 lb down and 68 lb up at 8-0-0, 83 lb down and 68 lb up at 10-0-0, 83 lb down and 68 lb up at 12-0-0, and 83 lb down and 68 lb up at 14-0-0, and 83 lb down and 68 lb up at 16-0-0 on top chord, and 222 lb down and 72 lb up at 4-0-0, 33 lb down at 6-0-0, 33 lb down at 8-0-0, 33 lb down at 10-0-0, 33 lb down at 12-0-0, and 33 lb down at 14-0-0, and 222 lb down and 72 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



November 23, 2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	D1	Hip Girder		Ply	1	I43726160
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:41 2020 Page 2			Job Reference (optional)
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-KASDhO4hRB9fN_xQ_gVI8KFPeLh?pVQhsWc5OJyHE?C			

LOAD CASE(S)
Standard

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

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 7-11=-20
- Concentrated Loads (lb)

Vert: 2=-50(F) 4=-50(F) 10=-222(F) 9=-23(F) 3=-50(F) 8=-222(F) 12=-50(F) 13=-50(F) 14=-50(F) 15=-50(F) 16=-23(F) 17=-23(F) 18=-23(F) 19=-23(F)

Job: HT 32

Truss: D2

Truss Type: Hip

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply: 1

Lot 32 HT

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:42 2020 Page 1

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-pN?bvK5JCVIW?7WdXN0XgYnXhI0IY7Xr4AMewlyHE?B

6-0-0

6-0-0

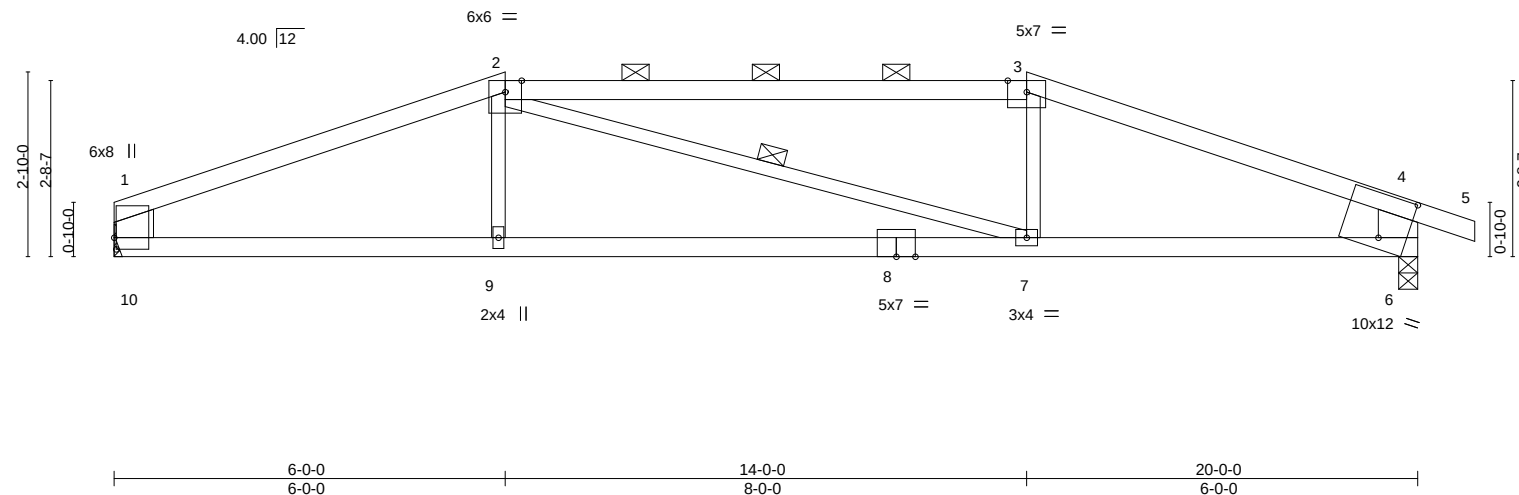
20-0-0

6-0-0

20-10-8

0-10-8

Scale = 1:35.3



Job: HT 32

Truss: D3

Truss Type: Hip

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply: 1

Lot 32 HT

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:43 2020 Page 1

ID:M6_qRERj_ax8BApGKEBrTSyOHSj-HZZz646xzpQNdH5p55XmDIKj89M?HaU_Jq5CSCyHE?A

8-0-0

8-0-0

12-0-0

4-0-0

20-0-0

8-0-0

20-10-8

0-10-8

Scale = 1:35.2

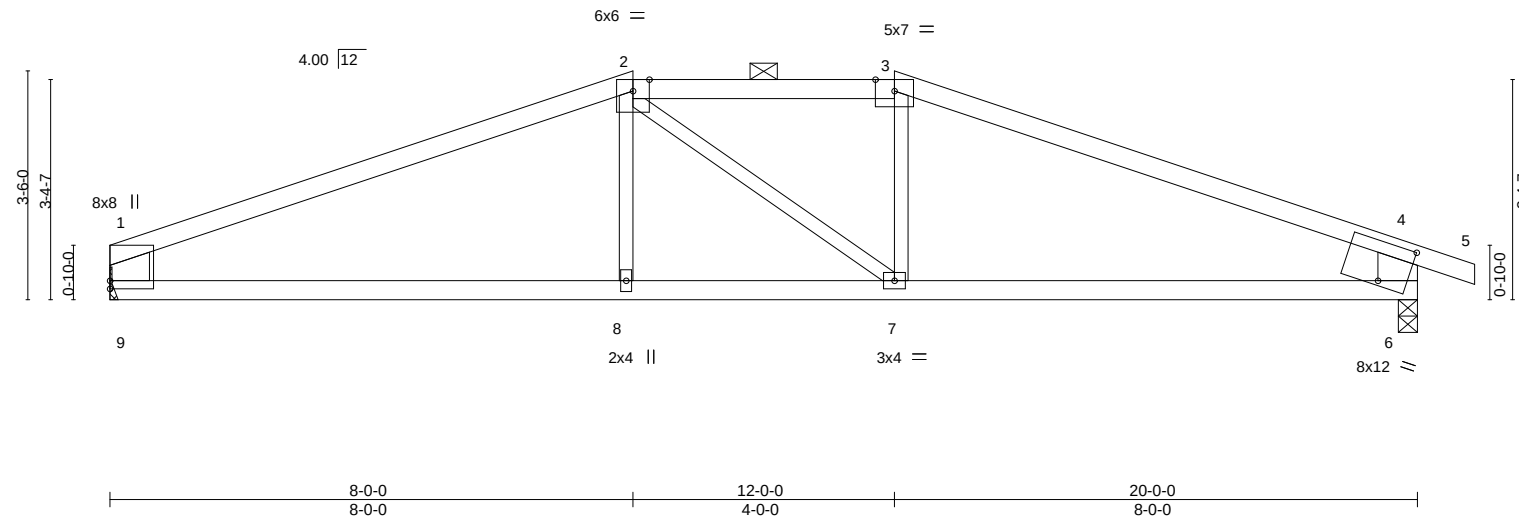


Plate Offsets (X,Y)--		[6:0-5-2,0-7-2]									
LOADING (psf)		SPACING-		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL		1.15	TC	0.88	Vert(LL)	-0.22	7-8	>999	360
TCDL	10.0	Lumber DOL		1.15	BC	0.90	Vert(CT)	-0.41	7-8	>572	240
BCLL	0.0 *	Rep Stress Incr		YES	WB	0.11	Horz(CT)	0.04	6	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014			Matrix-S		Wind(LL)	0.14	7-8	>999	240
							PLATES		GRIP		
							MT20		197/144		
							Weight: 59 lb		FT = 10%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-5: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-13 max.): 2-3.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 1-9,4-6: 2x8 SP DSS		

REACTIONS.	
(size)	9=Mechanical, 6=0-3-8
Max Horz	9=-36(LC 9)
Max Uplift	9=-140(LC 4), 6=-191(LC 5)
Max Grav	9=870(LC 1), 6=958(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1457/227, 2-3=-1306/254, 3-4=-1486/229, 1-9=-741/182, 4-6=-861/240
BOT CHORD	8-9=-160/1291, 7-8=-162/1290, 6-7=-138/1310

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=140, 6=191.
 - This truss 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.



November 23,2020

Scale = 1:33.9

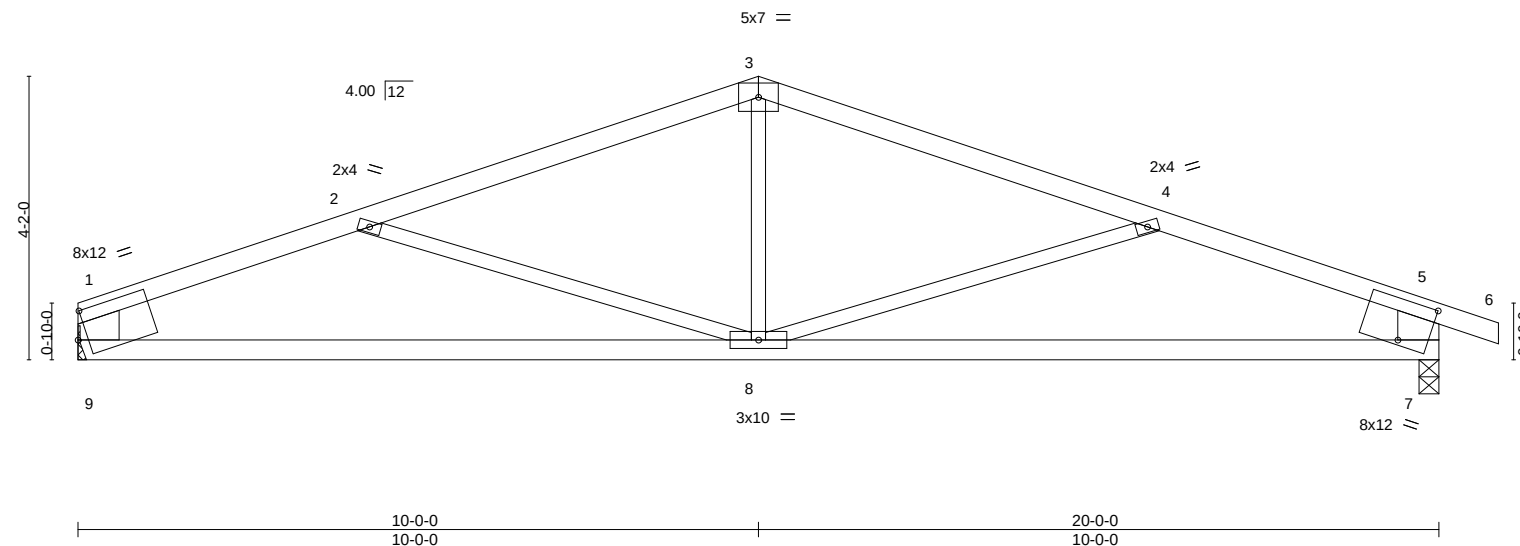


Plate Offsets (X,Y)-- [1:0-1-12,0-4-13], [7:0-5-2,0-7-2]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.19	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.40	7-8	>577	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.13	7-8	>999	240	Weight: 63 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-9,5-7: 2x8 SP DSS

BRACING-

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

REACTIONS.

(size) 9=Mechanical, 7=0-3-8
Max Horz 9=-49(LC 9)
Max Uplift 9=-127(LC 4), 7=-178(LC 5)
Max Grav 9=870(LC 1), 7=958(LC 1)

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

TOP CHORD 1-2=-1497/282, 2-3=-1262/156, 3-4=-1263/158, 4-5=-1485/274, 1-9=-758/172,
5-7=-851/224

BOT CHORD 8-9=-244/1326, 7-8=-205/1309

WEBS 3-8=0/390, 4-8=-260/205, 2-8=-278/207

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=127, 7=178.
- 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.



November 23, 2020

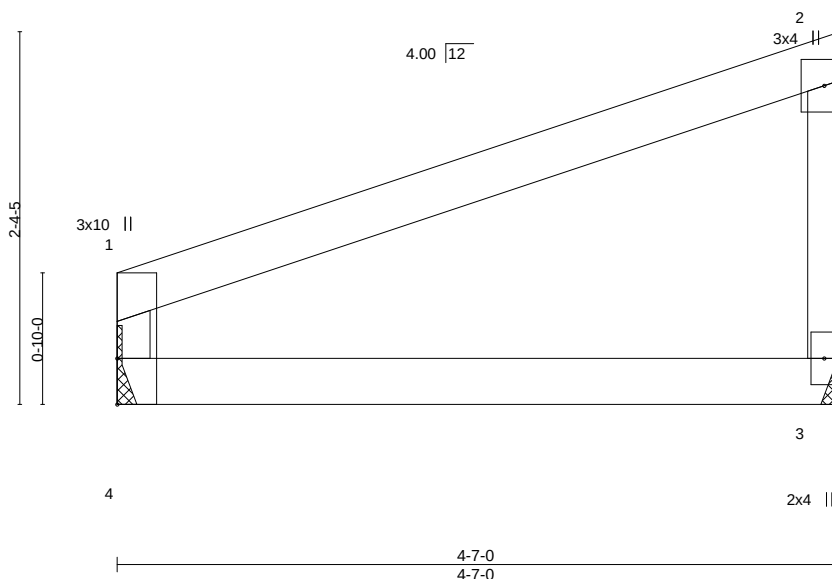


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT
HT 32	D5	Monopitch	1	Ply	1	I43726164
Wheeler Lumber,		Waverly, KS - 66871,	Job Reference (optional)			
8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:44 2020 Page 1 ID:M6_qRERj_ax8BApGKEBrTSyOHSj-Il7MKQ7Zk6YEERg?fo2?lzt1IZtn02S8YUrl?eyHE?9						
12/16/2020						



Scale = 1:14.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.02	3-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.03	3-4	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	3-4	>999	240	
								Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

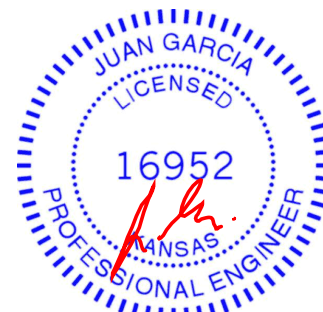
TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical
Max Horz 4=87(LC 5)
Max Uplift 3=-45(LC 8), 4=-30(LC 4)
Max Grav 3=197(LC 1), 4=197(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

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

HT 32

Truss

D6

Truss Type

Monopitch

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply

1

Lot 32 HT

I43726165

Wheeler Lumber,

Waverly, KS - 66871,

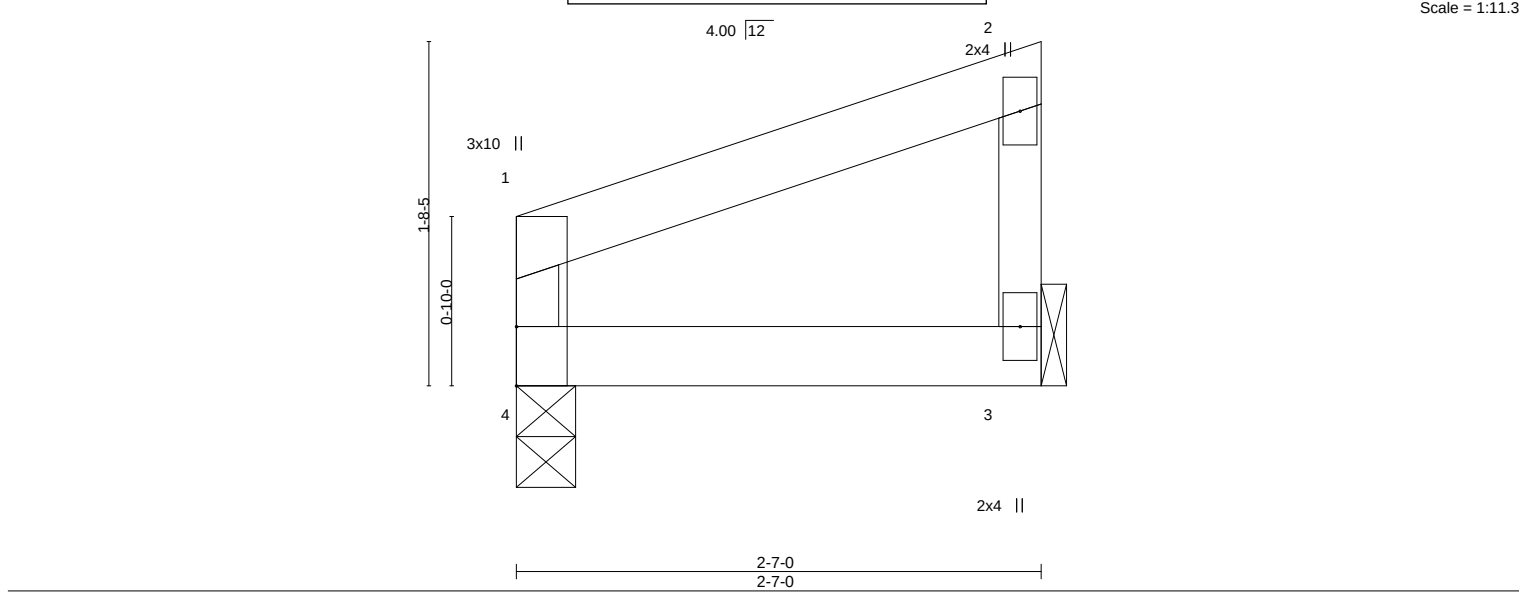
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MiTek Industries, Inc.

Fri Nov 20 16:54:44 2020

Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	3-4	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4	>999	240	Weight: 7 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.

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

REACTIONS.

(size) 3=Mechanical, 4=0-3-8

Max Horz 4=57(LC 5)

Max Uplift 3=-24(LC 8), 4=-16(LC 4)

Max Grav 3=107(LC 1), 4=107(LC 1)

FORCES.

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

- NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

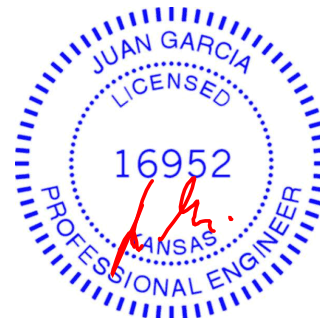
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.

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



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	E1	Hip Girder			2	I43726166

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:48 2020 Page 2

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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 59 lb up at 5-10-8, 113 lb down and 59 lb up at 7-11-4, 113 lb down and 59 lb up at 9-11-4, 113 lb down and 59 lb up at 11-11-4, 113 lb down and 59 lb up at 13-11-4, 113 lb down and 59 lb up at 15-11-4, 113 lb down and 59 lb up at 17-11-4, 113 lb down and 59 lb up at 19-11-4, 113 lb down and 59 lb up at 21-11-4, 113 lb down and 59 lb up at 23-11-4, 113 lb down and 59 lb up at 25-11-4, 108 lb down and 39 lb up at 27-11-4, 108 lb down and 39 lb up at 29-11-4, 108 lb down and 39 lb up at 31-11-4, and 108 lb down and 39 lb up at 33-11-4, and 293 lb down and 108 lb up at 35-0-0 on top chord, and 398 lb down and 99 lb up at 5-10-8, 69 lb down at 7-11-4, 69 lb down at 9-11-4, 69 lb down at 11-11-4, 69 lb down at 13-11-4, 69 lb down at 15-11-4, 69 lb down at 17-11-4, 69 lb down at 19-11-4, 69 lb down at 21-11-4, 69 lb down at 23-11-4, 69 lb down at 26-0-4, 71 lb down at 27-11-4, 71 lb down at 29-11-4, and 71 lb down at 31-11-4, and 71 lb down at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-9=-70, 9-11=-70, 11-12=-70, 18-23=-20, 15-17=-20, 13-14=-20

Concentrated Loads (lb)

Vert: 3=-113(B) 6=-113(B) 9=-261(B) 20=-48(B) 18=-48(B) 7=-113(B) 22=-398(B) 24=-113(B) 25=-113(B) 26=-113(B) 27=-113(B) 28=-113(B) 29=-113(B) 30=-113(B) 31=-113(B) 32=-90(B) 33=-90(B) 34=-90(B) 35=-90(B) 36=-48(B) 37=-48(B) 38=-48(B) 39=-48(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B) 44=-71(B) 45=-71(B) 46=-71(B) 47=-71(B)

Job: HT 32

Truss: E2

Truss Type: Hip

Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply: 1

Lot 32 HT

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:50 2020 Page 1

ID: M6_qRERj_ax8BApGKEbTSyOHSj-avUdaTBKJyIOyM79?39P?E7xHzpTQaR0wQI3ClyHE?3

0-10-8 7-10-8 14-2-8 20-7-12 26-2-0 33-4-13 36-0-0 39-6-0 40-4-8

0-10-8 7-10-8 6-4-0 6-5-4 5-6-4 7-2-13 2-7-3 3-6-0 0-10-8

Scale = 1:74.6

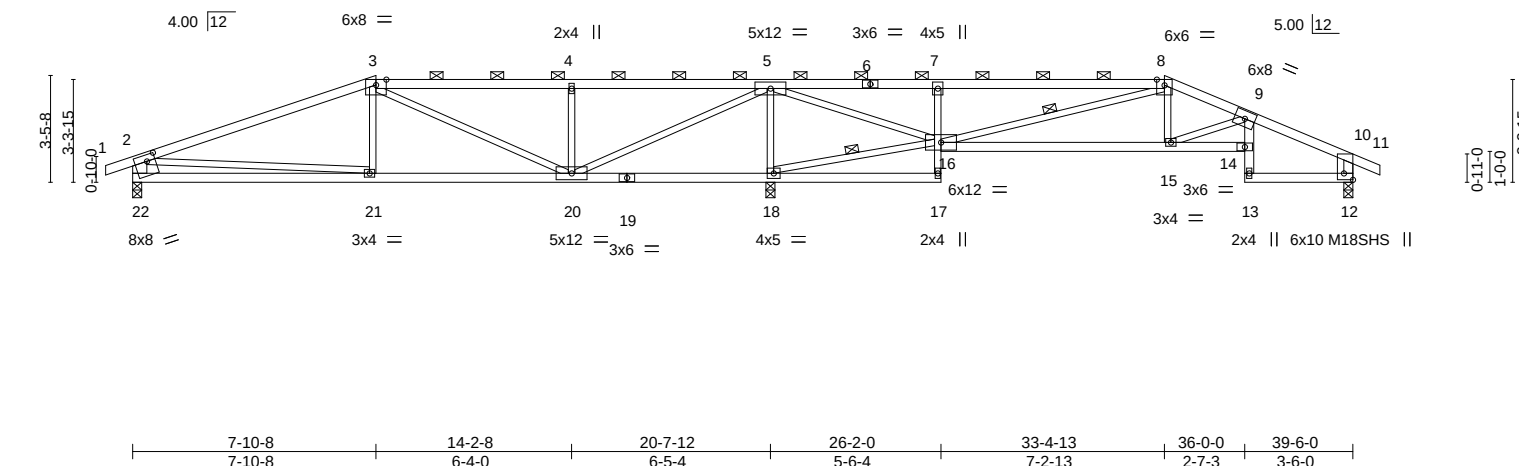


Plate Offsets (X,Y)--		[12:Edge,0-3-8], [22:0-3-4,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75
TCDL 10.0	Lumber DOL	1.15	BC 0.59
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.11 14-15 >999 360
			Vert(CT) -0.25 15-16 >905 240
			Horz(CT) 0.09 12 n/a n/a
			Wind(LL) 0.08 14-15 >999 240
			PLATES
			MT20 197/144
			M18SHS 197/144
			Weight: 141 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD 2x4 SPF No.2 *Except* 7-17: 2x3 SPF No.2, 9-13: 2x4 SPF 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-10-0 oc bracing: 18-20 6-0-0 oc bracing: 17-18.
WEBS 2x3 SPF No.2 *Except* 2-22: 2x6 SPF No.2, 10-12: 2x4 SPF 2100F 1.8E	WEBS 1 Row at midpt 16-18, 8-16

REACTIONS.	(size) 22=0-3-8, 12=0-3-8, 18=0-3-8
	Max Horz 22=29(LC 12)
	Max Uplift 22=-185(LC 4), 12=-99(LC 9), 18=-383(LC 4)
	Max Grav 22=801(LC 21), 12=678(LC 22), 18=2219(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1148/219, 3-4=-521/172, 4-5=-519/170, 7-8=-252/111, 8-9=-1136/150, 9-10=-777/102, 2-22=-731/228, 10-12=-616/117
BOT CHORD	21-22=-251/696, 20-21=-154/998, 18-20=-1373/241, 7-16=-479/199, 15-16=-83/1041, 14-15=-119/1287, 12-13=-54/615
WEBS	3-21=0/278, 3-20=-592/79, 4-20=-489/200, 5-20=-357/1969, 5-18=-1816/410, 16-18=-1361/256, 5-16=-280/1623, 8-16=-860/54, 8-15=0/346, 2-21=0/380

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 22=185, 18=383.
 - This truss 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.



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	E3	Half Hip Girder			2	I43726168
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:51 2020 Page 1			
			ID:M6_qRERj_ax8BApGKEbTSyOHSj-262?opCy4GQFaWiLZmgeYRfDzNBr95_A941dlkyHE?2			
			12/16/2020			
			4-11-11	9-8-14	10-4-0	
			4-11-11	4-9-3	0-7-2	

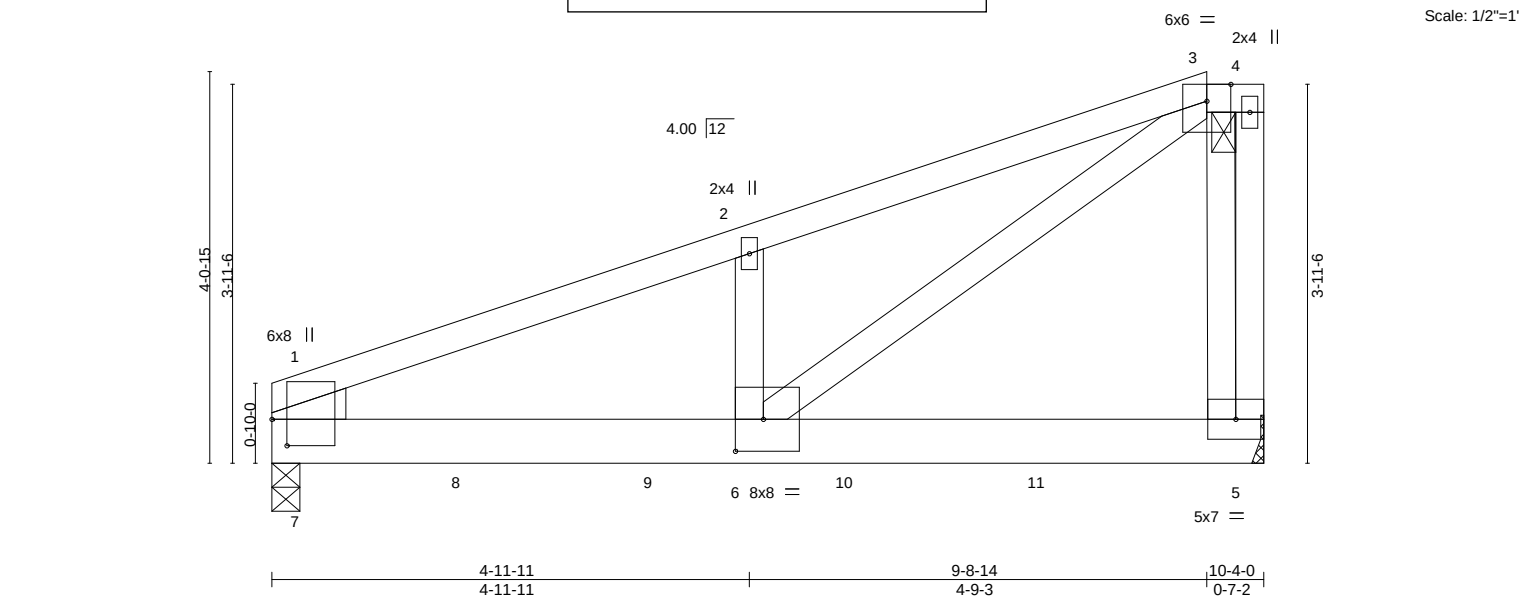


Plate Offsets (X,Y)--		[1:0-3-5,0-1-14], [6:0-3-8,0-4-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.31	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(LL) -0.07 5-6 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Vert(CT) -0.12 5-6 >982 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 5 n/a n/a
			Wind(LL) 0.05 5-6 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 107 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
1-7: 2x10 SP DSS	

REACTIONS.	(size) 5=Mechanical, 7=0-3-8
	Max Horz 7=155(LC 26)
	Max Uplift 5=-442(LC 4), 7=-520(LC 4)
	Max Grav 5=2329(LC 1), 7=2610(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-3512/658, 2-3=-3449/717, 1-7=-1307/274
BOT CHORD	6-7=-633/3266, 5-6=-84/258
WEBS	2-6=-240/262, 3-6=-769/3760, 3-5=-1506/340

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=442, 7=520.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1322 lb down and 314 lb up at 2-0-12, 850 lb down and 170 lb up at 4-0-12, 850 lb down and 160 lb up at 6-0-12, and 850 lb down and 147 lb up at 8-0-12, and 184 lb down and 42 lb up at 10-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 23,2020

Continued on page 2	
LOAD CASE(S) Standard	
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601	
16023 Swingley Ridge Rd Chesterfield, MO 63017	

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Ply	Lot 32 HT
HT 32	E3	Half Hip Girder				2	I43726168
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:51 2020 Page 2				
			ID:M6_qRERj_ax8BApGKEbrTSyOHSj-262?opCy4GQFaWiLZmgeYRfDzNBr95_A941dlkyHE?2				
Job Reference (optional)							

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-70, 3-4=-70, 5-7=-20
- Concentrated Loads (lb)
- Vert: 5=-184(F) 8=-1322(F) 9=-850(F) 10=-850(F) 11=-850(F)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbrT 12/16/2020		Ply	Lot 32 HT
HT 32	G1	Half Hip Girder			1	I43726169
Wheeler Lumber, Waverly, KS - 66871,				8.420 s	Job Reference (optional)	
				Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:52 2020 Page 1		
				SyOHsj-WlcN?9DaraY5CgHY7UBt4fCHtrnV6uXQJOknAHAYHE?1		
-0-10-8 2-11-6 0-10-8 2-11-6				8-8-0 5-8-10		

Scale = 1:18.1

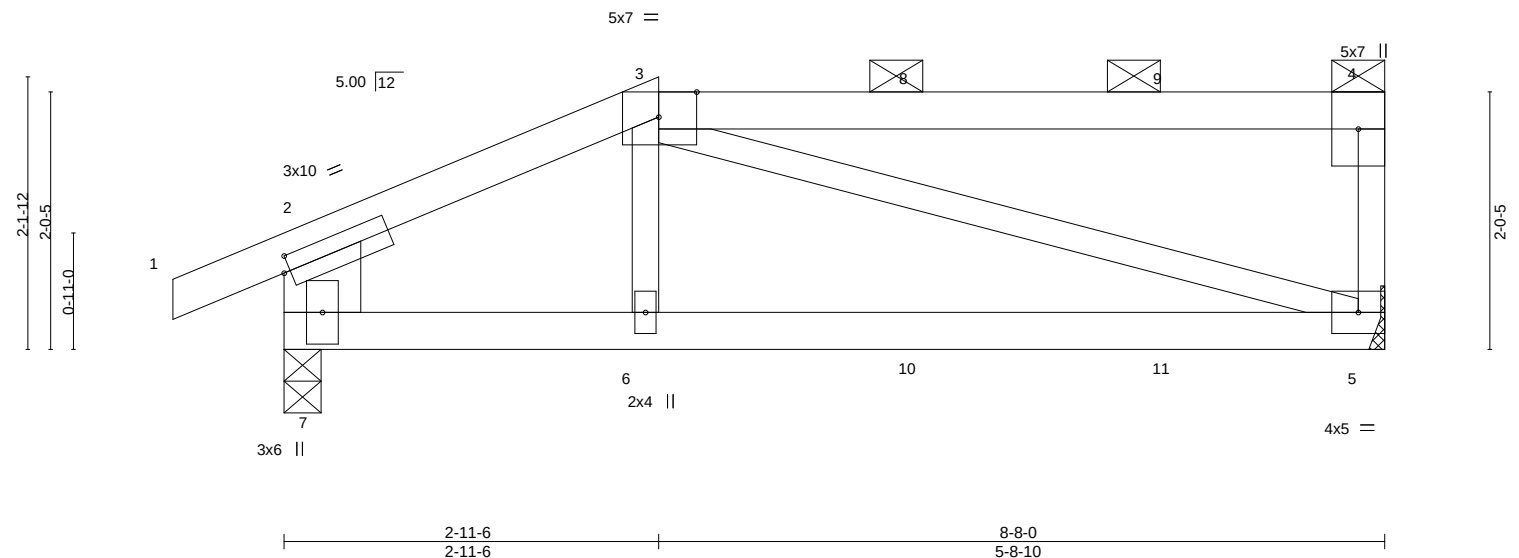


Plate Offsets (X,Y)--		[2-0-0-10,0-1-8], [3-0-3-9,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75
TCDL 10.0	Lumber DOL	1.15	BC 0.64
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.51
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.06 5-6 >999 360
			Vert(CT) -0.13 5-6 >737 240
			Horz(CT) 0.01 5 n/a n/a
			Wind(LL) 0.04 5-6 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 30 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-7: 2x8 SP DSS	

REACTIONS. (size) 5=Mechanical, 7=0-3-8
 Max Horz 7=81(LC 28)
 Max Uplift 5=-123(LC 5), 7=-149(LC 4)
 Max Grav 5=533(LC 1), 7=658(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-784/156, 4-5=-260/114, 2-7=-537/119
 BOT CHORD 6-7=-176/663, 5-6=-180/653
 WEBS 3-6=0/281, 3-5=-579/149

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=123, 7=149.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 67 lb up at 2-11-6, and 82 lb down and 67 lb up at 5-0-5, and 82 lb down and 67 lb up at 7-0-5 on top chord, and 175 lb down and 64 lb up at 2-11-6, and 32 lb down at 5-0-5, and 32 lb down at 7-0-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



November 23, 2020

Continued on page 2

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	G1	Half Hip Girder		1		I43726169
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:52 2020 Page 2			
			ID:M6_qRERj_ax8BApGKEbrT SyOHsj-WlcN?9DaraY5CgHY7UBt4fCHtnV6uXQJOknAHAYHE?1			
			Job Reference (optional)			

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-48(F) 6=-175(F) 8=-48(F) 9=-48(F) 10=-23(F) 11=-23(F)

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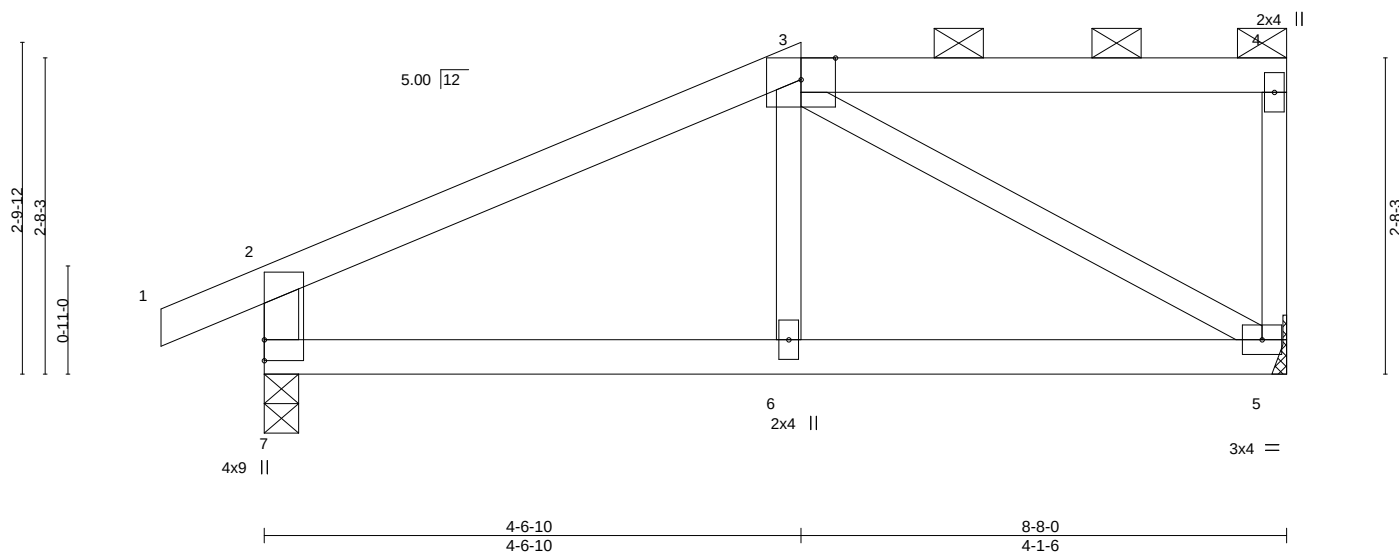


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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT	I43726170
HT 32	G2	Half Hip				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:52 2020 Page 1			
-0-10-8		4-6-10		ID:M6_qRERj_ax8BApGKEbTSyOhsj-WlcN?9DaraY5CgHY7UBt4fCNJnbtucCJOknAHAYHE?1			
0-10-8		4-6-10		8-8-0			
				4-1-6			

5x7 =

Scale = 1:19.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.01	6	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.03	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	6	>999	Weight: 29 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-7: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 7=0-3-8
Max Horz 7=109(LC 5)
Max Uplift 5=-69(LC 5), 7=-72(LC 8)
Max Grav 5=374(LC 1), 7=455(LC 1)

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

TOP CHORD 2-3=-434/55, 2-7=-395/101
BOT CHORD 6-7=-81/338, 5-6=-83/335
WEBS 3-5=-370/70

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job
HT 32

Truss
G3

Truss Type
Half Hip

Wheeler Lumber,
Waverly, KS - 66871,

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

12/16/2020

Ply
1

Lot 32 HT

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:53 2020 Page 1

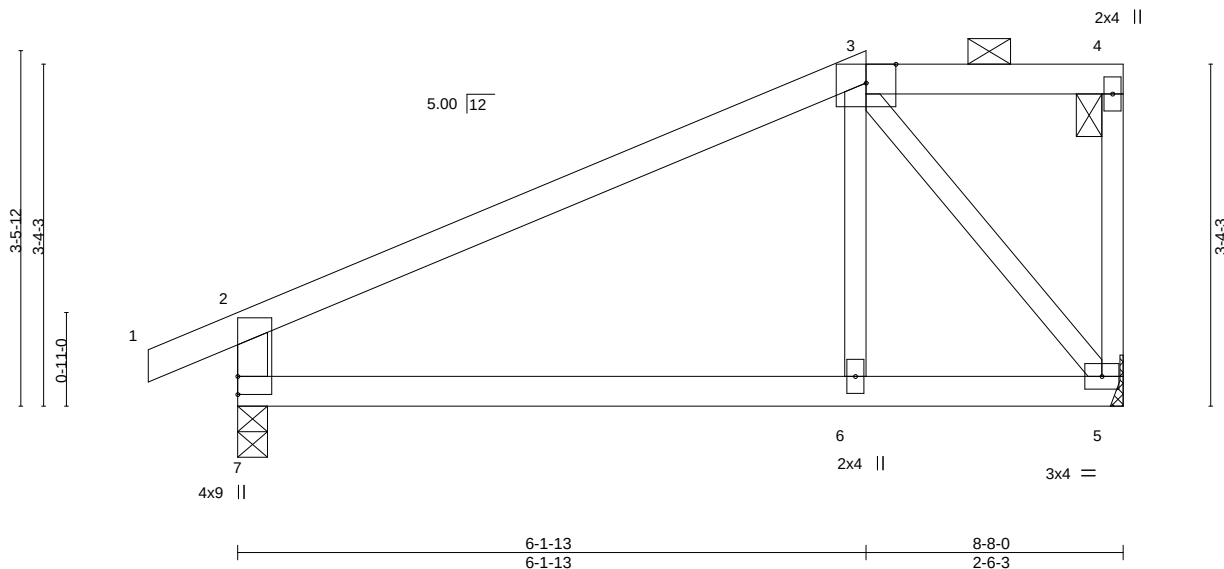
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0-10-8
0-10-8

6-1-13
6-1-13

8-8-0
2-6-3

Scale = 1:22.6



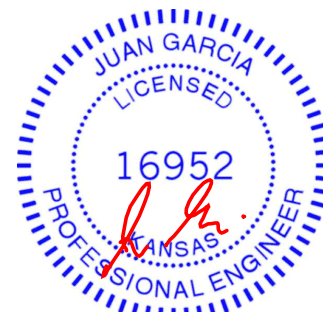
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	6	>999	240		
									Weight: 30 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	
2-7: 2x4 SPF No.2	

REACTIONS.	(size) 5=Mechanical, 7=0-3-8
Max Horz	7=138(LC 5)
Max Uplift	5=-65(LC 5), 7=-78(LC 8)
Max Grav	5=374(LC 1), 7=455(LC 1)

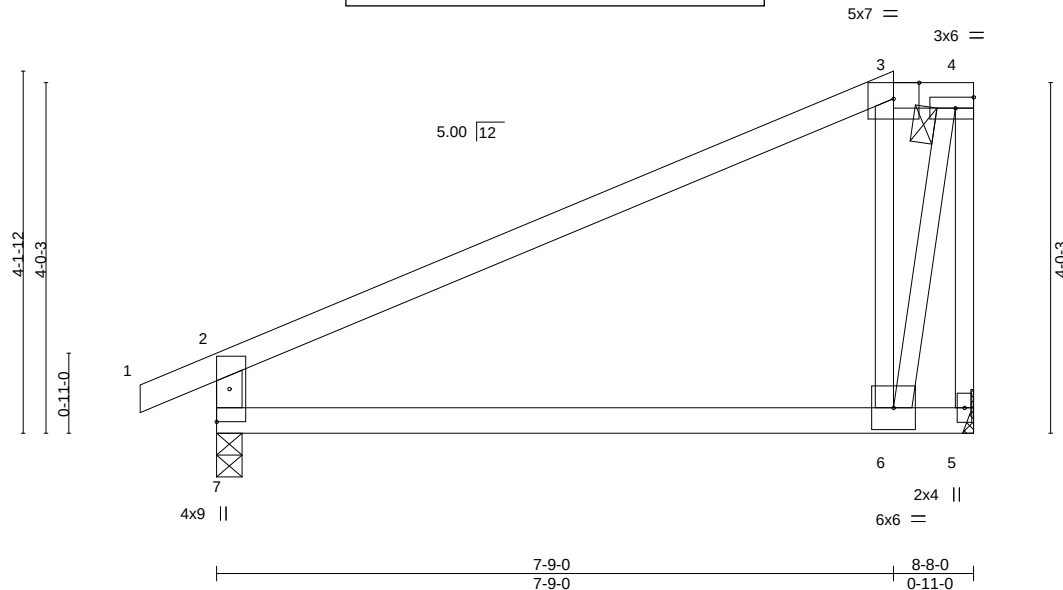
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-365/49, 2-7=-404/122
BOT CHORD	6-7=-68/259, 5-6=-70/255
WEBS	3-5=-416/87

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbrTSyOHsj-Sgk8QrFrNBopRzQwEvEL94HdnbDvMVkcr2GHL3yHE?? 12/18/2020			Lot 32 HT
HT 32	G4	Half Hip				I43726172
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:54 2020 Page 1			
0-10-8 0-10-8			0-10-8 0-11-0			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.08	6-7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.17	6-7	>596	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04	6-7	>999	240	Weight: 31 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-7: 2x4 SPF No.2

BRACING-

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

REACTIONS.

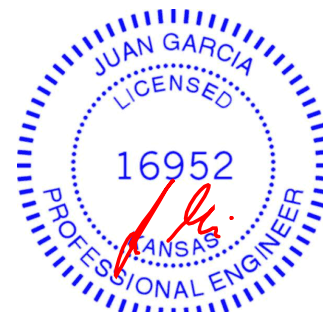
(size) 5=Mechanical, 7=0-3-8
Max Horz 7=167(LC 5)
Max Uplift 5=-73(LC 8), 7=-78(LC 8)
Max Grav 5=374(LC 1), 7=455(LC 1)

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

TOP CHORD 2-3=-286/33, 4-5=-555/70, 2-7=-407/134
WEBS 3-6=-465/235, 4-6=-192/784

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

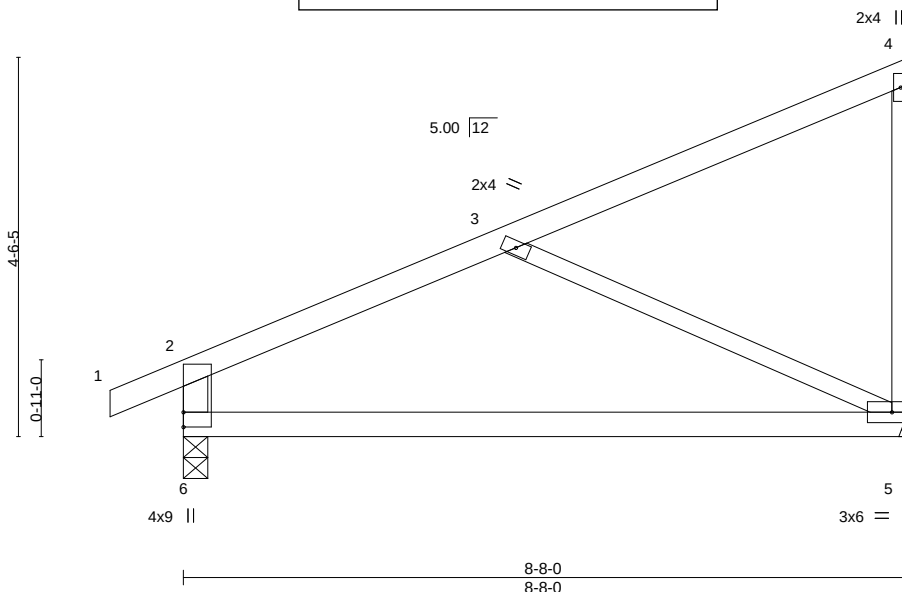
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT
HT 32	G5	Monopitch				I43726173
Wheeler Lumber, Waverly, KS - 66871,			ID:M6_qRERj_ax8BApGKEbrTSyOHSj-Sgk8QrFrNBopRzQwEvEL94HjpbAPMW7cr2GHL3yHE?? 12/16/2020			
			3-11-10	8-8-0	4-8-6	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.19	5-6	>525	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.37	5-6	>270	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	
								Weight: 30 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-6: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 6=0-3-8
 Max Horz 6=188(LC 5)
 Max Uplift 5=90(LC 8), 6=-75(LC 8)
 Max Grav 5=374(LC 1), 6=455(LC 1)

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

TOP CHORD 2-3=-432/114, 2-6=-361/125
 BOT CHORD 5-6=-139/347
 WEBS 3-5=-364/183

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

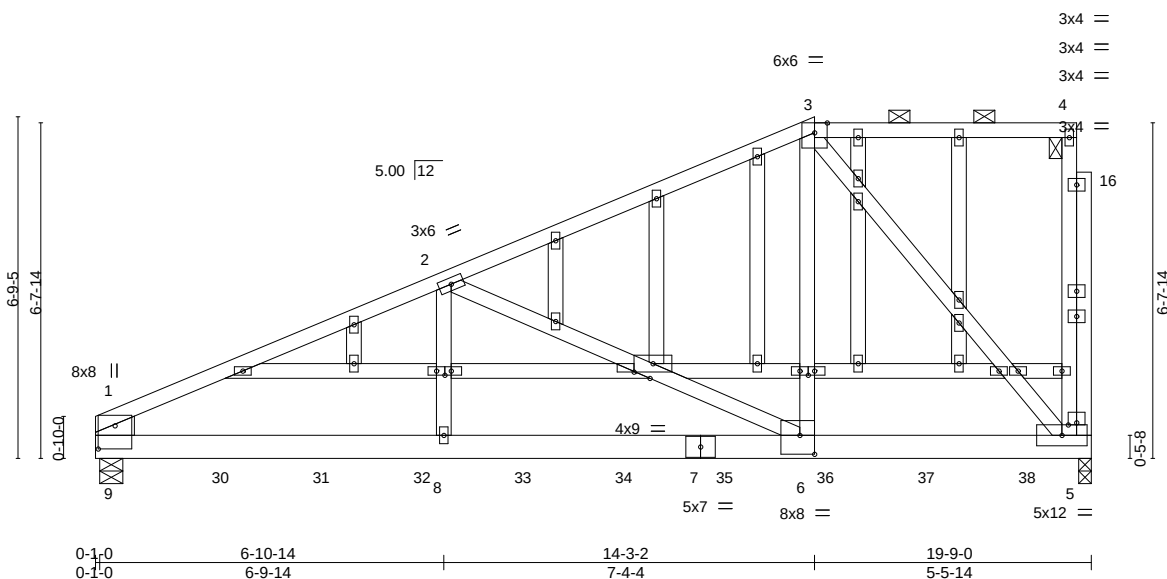
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	H1	GABLE	ID:M6_qRERj_ax8BApGKEbrTSyOHsj-O3surXG5vo2XhHaJMjGpEVM?Hot8qlbvJMIOpyyHE_z		2	143726174
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:56 2020 Page 1		
6-10-14		6-10-14		19-9-0		
6-10-14		6-10-14		5-5-14		



Scale = 1:45.7

Plate Offsets (X,Y)-- [1:0-5-8,0-4-0], [6:0-3-8,0-4-8], [11:0-1-8,0-1-0], [12:0-3-13,0-1-8], [13:0-1-8,0-1-0], [15:0-2-0,0-0-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.14	6-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.25	6-8	>916	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09	6-8	>999	240	Weight: 281 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except*
1-9: 2x10 SP 2400F 2.0E
OTHERS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-3-0, 9=0-5-8
Max Horz 9=270(LC 26)
Max Uplift 5=-393(LC 5), 9=-404(LC 8)
Max Grav 5=3051(LC 1), 9=3271(LC 1)

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

TOP CHORD 1-2=-4498/583, 2-3=-2338/318, 1-9=-1947/301
BOT CHORD 8-9=-581/4061, 6-8=-581/4061, 5-6=-302/2006
WEBS 2-8=-92/1374, 2-6=-2192/410, 3-6=-307/2800, 3-5=-3104/418

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=393, 9=404.
- This truss 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.

Continued on page 2



November 23, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	H1	GABLE			2	I43726174

Wheeler Lumber,
Waverly, KS - 66871,
8.420 s
Oct 9 2020
MiTek Industries, Inc.
Fri Nov 20 16:54:56 2020
Page 2
ID:M6_qRERj_ax8BApGKEbrTSyOHsj-O3surXG5vo2XhHaJMJGpEVM?Hot8qlbvJMIOPyHE_z

- NOTES-
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 471 lb down and 50 lb up at 0-4-10, 460 lb down and 63 lb up at 2-6-4, 460 lb down and 63 lb up at 4-6-4, 460 lb down and 63 lb up at 6-6-4, 460 lb down and 63 lb up at 8-6-4, 460 lb down and 63 lb up at 10-6-4, 460 lb down and 63 lb up at 12-6-4, 460 lb down and 63 lb up at 14-6-4, and 460 lb down and 63 lb up at 16-6-4, and 461 lb down and 63 lb up at 18-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Studding applied to ply: 1(Front)

- LOAD CASE(S) Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 5-9=-20
- Concentrated Loads (lb)

Vert: 9=-471(B) 30=-460(B) 31=-460(B) 32=-460(B) 33=-460(B) 34=-460(B) 35=-460(B) 36=-460(B) 37=-460(B) 38=-461(B)

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI							
Job	Truss	Truss Type	Girder	Ply	Lot 32 HT					I43726175
HT 32	H2	Roof Special		1						
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)							
			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:57 2020 Page 1							
			ID:M6_qRERi_ax8BApGKEBTsYOHsj-tfPGZsHjg6AOiR9Vw1n2ni9EoCWZqn2X0UxxOyHE_y							
			12/16/2018							

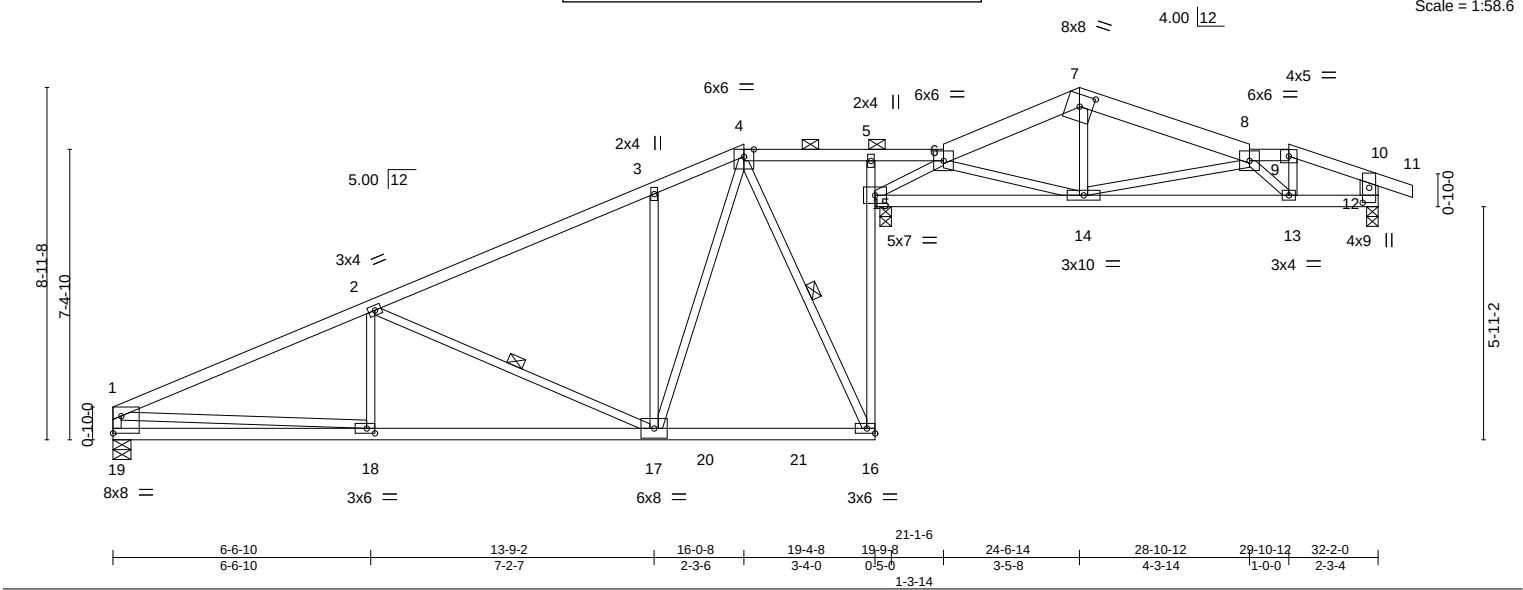


Plate Offsets (X,Y)--		[7:0-4-0,0-3-10], [12:0-4-9,0-2-0], [18:0-2-8,0-1-8], [19:Edge,0-5-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.08 17-18	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.15 17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	-0.03 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 17-18	>999	240	Weight: 132 lb	FT = 10%

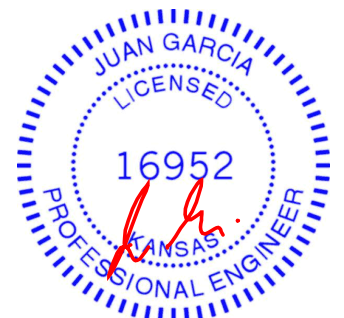
LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SPF No.2 *Except*	Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6, 8-9.
6-7,7-8: 2x6 SPF No.2	
BOT CHORD	BOT CHORD
2x4 SPF No.2 *Except*	Rigid ceiling directly applied or 9-10-2 oc bracing.
5-16: 2x3 SPF No.2	
WEBS	WEBS
2x3 SPF No.2 *Except*	1 Row at midpt
10-12: 2x6 SPF No.2	2-17, 4-16

REACTIONS.	(size) 19=0-5-8, 15=0-3-8, 12=0-3-8
	Max Horz 19=253(LC 8)
	Max Uplift 19=-108(LC 29), 15=-291(LC 8), 12=-158(LC 5)
	Max Grav 19=885(LC 23), 15=1519(LC 2), 12=639(LC 2)
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1445/169, 2-3=-740/85, 3-4=-706/173, 6-7=-792/126, 7-8=-788/114, 8-9=-641/119, 9-10=-770/123, 1-19=-792/140, 10-12=-511/138
BOT CHORD	18-19=-303/313, 17-18=-355/1276, 16-17=-81/317, 15-16=-155/789, 5-15=-305/102, 14-15=-77/601, 13-14=-171/1015, 12-13=-91/670
WEBS	2-17=-735/225, 3-17=-408/209, 4-17=-230/953, 4-16=-771/198, 6-15=-727/117, 7-14=0/278, 8-14=-346/143, 8-13=-576/129, 9-13=-36/407, 1-18=-53/967

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60	
3) Provide adequate drainage to prevent water ponding.	
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=108, 15=291, 12=158.	
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 72 lb up at 29-10-12 on top chord, and 3 lb down and 3 lb up at 29-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.	
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).	

LOAD CASE(S) Standard	
Continued on page 2	

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November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Ply	Lot 32 HT
HT 32	H2	Roof Special	Girder			1	I43726175
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)				
			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:54:57 2020 Page 2				
			ID:M6_qRERj_ax8BApGKEbTSyOHsj-tFPG2sHjg6AOIR9Vw1n2niv9EoCWZqn2X0UxxOyHE_y				

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 9-10=-70, 10-11=-70, 16-19=-20, 12-15=-20

Concentrated Loads (lb)

Vert: 13=1(B)

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					Ply	Lot 32 HT	I43726176
HT 32	H3	Roof Special						1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,	ID: M6_gRERj_ax8BApGKEbrTSyOHSj-peX0TYIzCjR6YlJu1SqWs7_Wjcv_1jLL?Kz20GyHE_w 12/16/2020							
6-6-10 6-6-10		13-9-1 7-2-7	17-7-11 3-10-10	19-4-8 1-8-13	22-8-10 3-4-2	24-6-14 1-10-5	26-10-12 2-3-14	27-10-12 1-0-0	32-2-0 4-3-4	

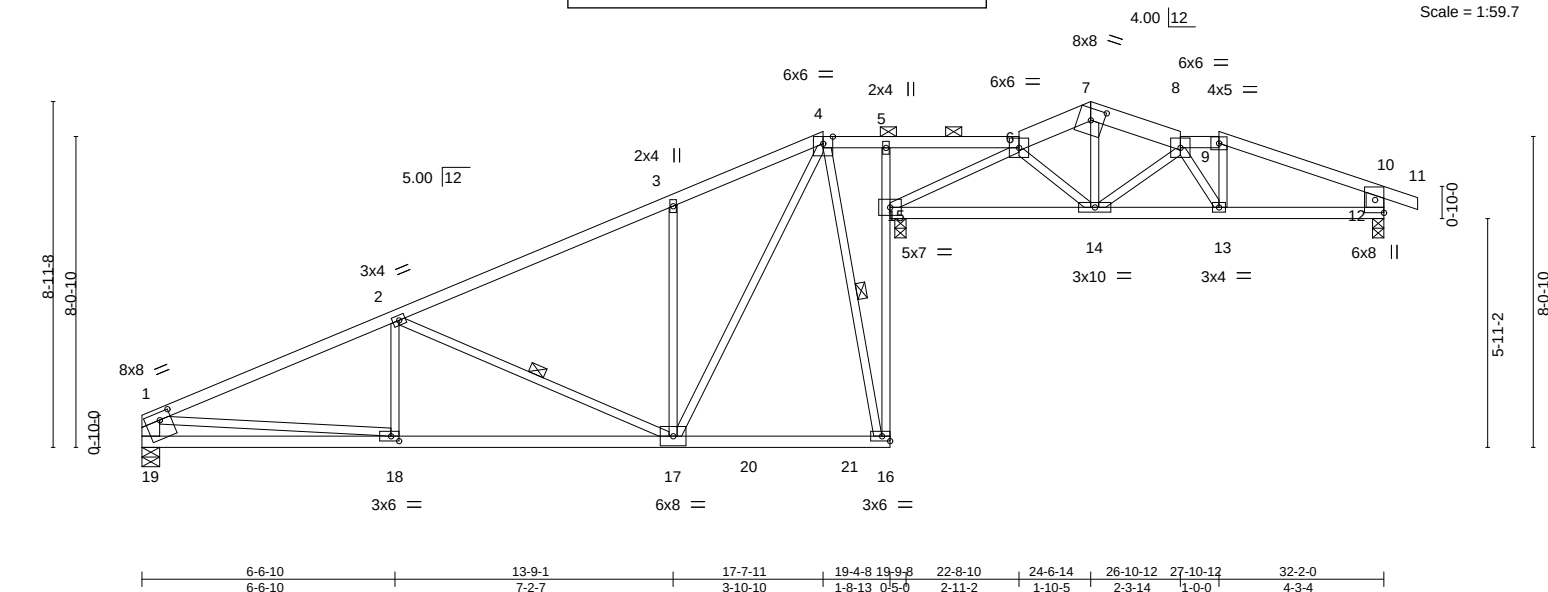


Plate Offsets (X,Y)-- [1:0-3-8,0-2-4], [7:0-4-0,0-3-10], [18:0-2-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.08 17-18 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.16 17-18 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.04 15 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05 17-18 >999 240	Weight: 131 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-7,7-8: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6, 8-9.
BOT CHORD 2x4 SPF No.2 *Except* 5-16: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-19,10-12: 2x6 SPF No.2	WEBS 1 Row at midpt 4-16, 2-17

REACTIONS.	(size) 19=0-5-8, 15=0-3-8, 12=0-3-8
	Max Horz 19=250(LC 8)
	Max Uplift 19=-107(LC 8), 15=-281(LC 8), 12=-140(LC 5)
	Max Grav 19=876(LC 23), 15=1523(LC 2), 12=637(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=-1410/167, 2-3=-729/86, 3-4=-700/182, 6-7=-744/125, 7-8=-740/118, 8-9=-737/143, 9-10=-847/135, 1-19=-785/140, 10-12=-539/158	
BOT CHORD 18-19=-300/310, 17-18=-352/1244, 15-16=-163/776, 5-15=-338/108, 14-15=-65/682, 13-14=-96/869, 12-13=-85/748	
WEBS 4-16=-697/191, 6-15=-774/84, 7-14=-27/359, 8-14=-255/85, 8-13=-264/25, 9-13=0/251, 4-17=-251/1018, 3-17=-426/218, 2-17=-710/220, 1-18=-52/939	

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=107, 15=281, 12=140.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	1	Ply	1	Lot 32 HT		
HT 32	H4	Hip				I43726177		
Wheeler Lumber, Waverly, KS - 66871,			8.420 s			Job Reference (optional)		
			Oct 9 2020			MiTek Industries, Inc. Fri Nov 20 16:55:00 2020 Page 1		
8-11-6			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-Hq5PhuJcz1Zz9uu4b9LIPLXdl?Esm78UD_jbYjyHE_v			25-10-12		
8-11-6			12/16/2020			32-2-0		
			15-4-8			33-0-8		
			6-5-2			3-10-6		
						6-7-14		
						6-3-4		
						0-10-8		

Scale = 1:59.5

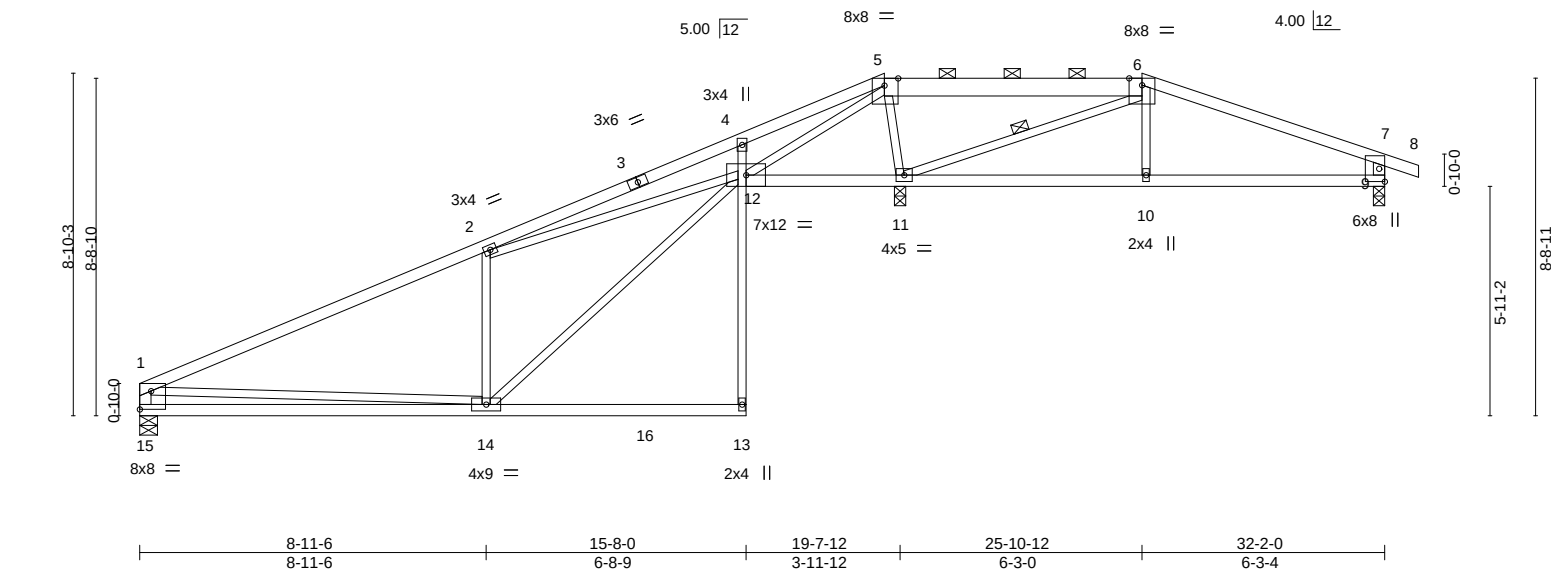


Plate Offsets (X,Y)-- [5:0-4-4,Edge], [15:Edge,0-5-11]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.15 14-15 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.31 14-15 >768 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	-0.03 11 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06 12 >999 240	Weight: 123 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD	2x4 SPF No.2 *Except* 4-13: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 5-6-5 oc bracing.
WEBS	2x3 SPF No.2 *Except* 1-15, 7-9: 2x4 SPF No.2	WEBS	1 Row at midpt 6-11

REACTIONS. (size) 15=0-5-8, 9=0-3-8, 11=0-3-8
 Max Horz 15=251(LC 8)
 Max Uplift 15=-79(LC 8), 9=-134(LC 5), 11=-288(LC 8)
 Max Grav 15=740(LC 2), 9=504(LC 22), 11=1947(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-987/75, 2-4=-551/218, 4-5=-394/259, 5-6=-228/1256, 6-7=-530/123, 1-15=-633/128, 7-9=-445/168
 BOT CHORD 14-15=-365/544, 4-12=-257/147, 11-12=-1039/236, 10-11=-76/433, 9-10=-70/438
 WEBS 2-14=-548/315, 12-14=-323/1104, 2-12=-440/27, 5-12=-532/1681, 5-11=-1210/305, 6-11=-1482/200, 6-10=0/268, 1-14=0/317

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 9=134, 11=288.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	H5	Hip			1	143726178
Wheeler Lumber, Waverly, KS - 66871,			ID: M6_qRERj_ax8BAPGKEbrTSyOHSj-l1fnuEKEKLn2TG9ts_xY4pMPZbVaueSdS949yHE_u 12/16/2020			
0-10-8 8-11-7 15-8-0 18-7-12 20-10-2 23-10-12 28-9-1 32-2-0 33-0-8 0-10-8 8-11-7 6-8-9 3-11-12 1-2-6 3-0-10 4-10-5 3-4-15 0-10-8						

Scale = 1:64.8

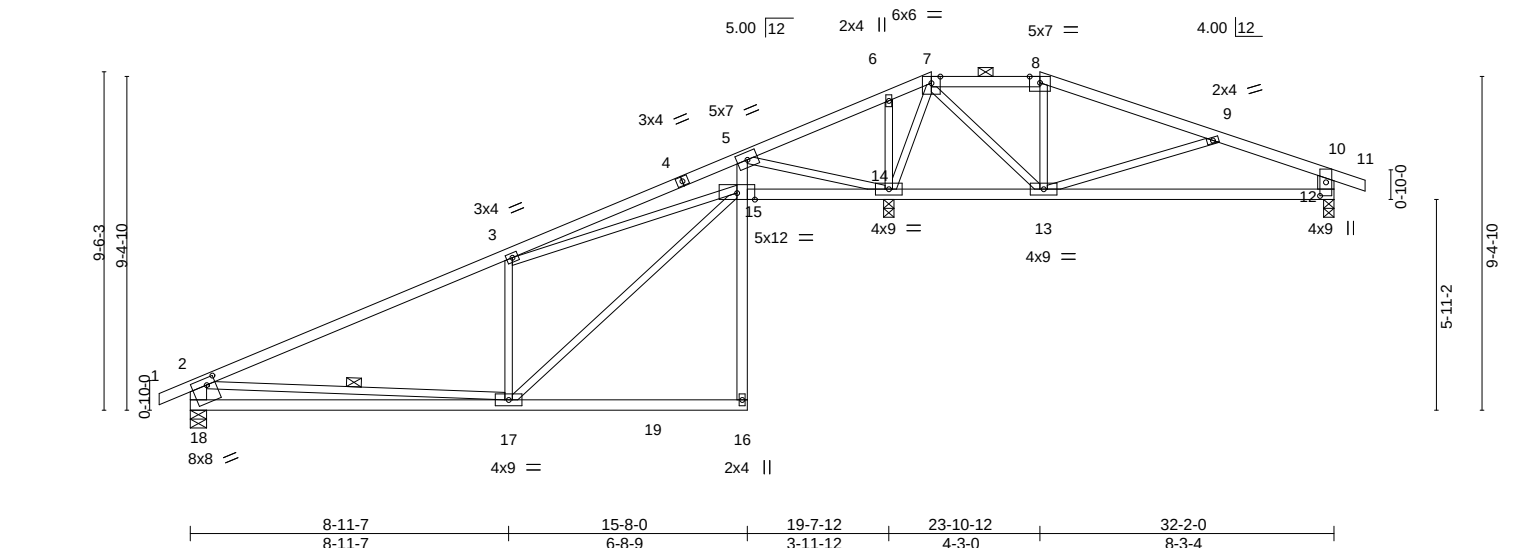


Plate Offsets (X,Y)--		[12:0-4-9,0-2-0], [18:0-3-0,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.14	17-18	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.29	17-18	>800	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	14	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.04	17-18	>999	240	
										Weight: 128 lb	
										FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-18,10-12: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
 BOT CHORD Rigid ceiling directly applied or 5-11-5 oc bracing.
 WEBS 1 Row at midpt 2-17

REACTIONS.

(size) 18=0-5-8, 12=0-3-8, 14=0-3-8
 Max Horz 18=276(LC 8)
 Max Uplift 18=-88(LC 8), 12=-124(LC 5), 14=-348(LC 8)
 Max Grav 18=787(LC 23), 12=490(LC 22), 14=1988(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-935/37, 3-5=-454/101, 5-6=-334/1438, 6-7=-262/1340, 7-8=-173/344, 8-9=-226/383, 9-10=-569/172, 2-18=-696/138, 10-12=-406/165
 BOT CHORD 17-18=-492/742, 5-15=-120/764, 13-14=-851/276, 12-13=-126/490
 WEBS 3-17=-501/280, 15-17=-288/1042, 3-15=-544/101, 5-14=-1503/408, 6-14=-355/146, 7-14=-1232/145, 7-13=-103/944, 8-13=-368/118, 9-13=-464/170, 2-17=-28/283

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 12=124, 14=348.
- This truss 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.



November 23,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Structural drawing of a roof truss system. The drawing includes various dimensions and member labels:

- Dimensions:**
 - Overall height: 10'-10"
 - Overall width: 50'-0"
 - Horizontal segments: 8'-11-6, 15'-8-0, 19'-7-12, 27'-0-15, 32'-2-0
 - Vertical segments: 5'-11-2, 0'-10-0
 - Roof slope segments: 5.00' (horizontal), 12' (vertical), 4.00' (horizontal), 12' (vertical)
- Member Labels:**
 - Top chord: 2x4 ||, 5x7 ||, 3x4 ||, 5x7 ||, 2x4 ||, 2x4 ||
 - Bottom chord: 8x8 ||, 4x9 ||, 5x12 ||, 4x9 ||, 3x6 ||, 4x9 ||
 - Vertical supports: 17, 16, 15, 13, 12, 11, 10
 - Diagonal bracing: 18, 14, 13, 12, 11, 10

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x3 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	2-17,9-11: 2x6 SPF No.2	WEBS	1 Row at midpt 2-16

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

TOP CHORD 2-3=-939/35, 3-5=-522/158, 5-6=-332/1383, 6-7=-259/1351, 7-8=-525/206,
8-9=-532/210, 2-17=-700/137, 9-11=-425/147

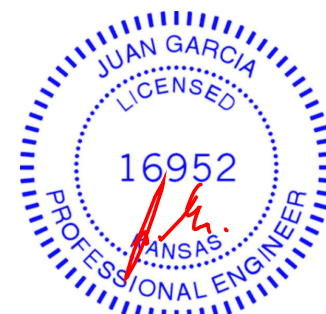
BOT CHORD 16-17=-501/742, 5-14=-159/746, 12-13=-550/188, 11-12=-176/444

WEBS 3-16=-508/289, 14-16=-301/1046, 3-14=-509/55, 5-13=-1467/471, 6-13=-291/139,
7-13=-1373/225, 7-12=-145/835, 8-12=-367/175, 2-16=-17/282

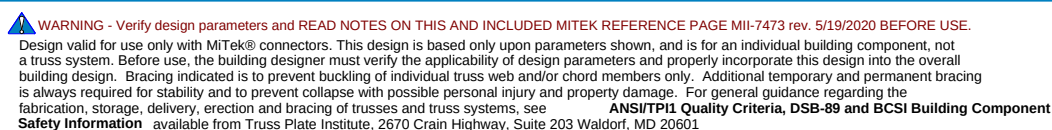
The seal of the State of Missouri is located in the bottom right corner. It is a circular emblem with a blue border containing the words "STATE OF MISSOURI" in white capital letters. Inside the circle, there is a smaller blue circle with the name "JUAN GARCIA" in white capital letters. The seal is partially cut off by the right edge of the page.

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 11=126, 13=362.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	H7	Roof Special			1	I43726180
Wheeler Lumber, Waverly, KS - 66871,			ID: M6_qRERj_ax8BApGKEbTSyOHSj-DDD95aLSUephPC2TiaNDUmcykptAE0DnhHCicbyHE_t 12/16/2020			
0-10-8 8-11-6 0-10-8 8-11-6			15-4-8 22-2-6 6-5-1 6-9-14		28-0-6 32-2-0 5-9-15 4-1-10	

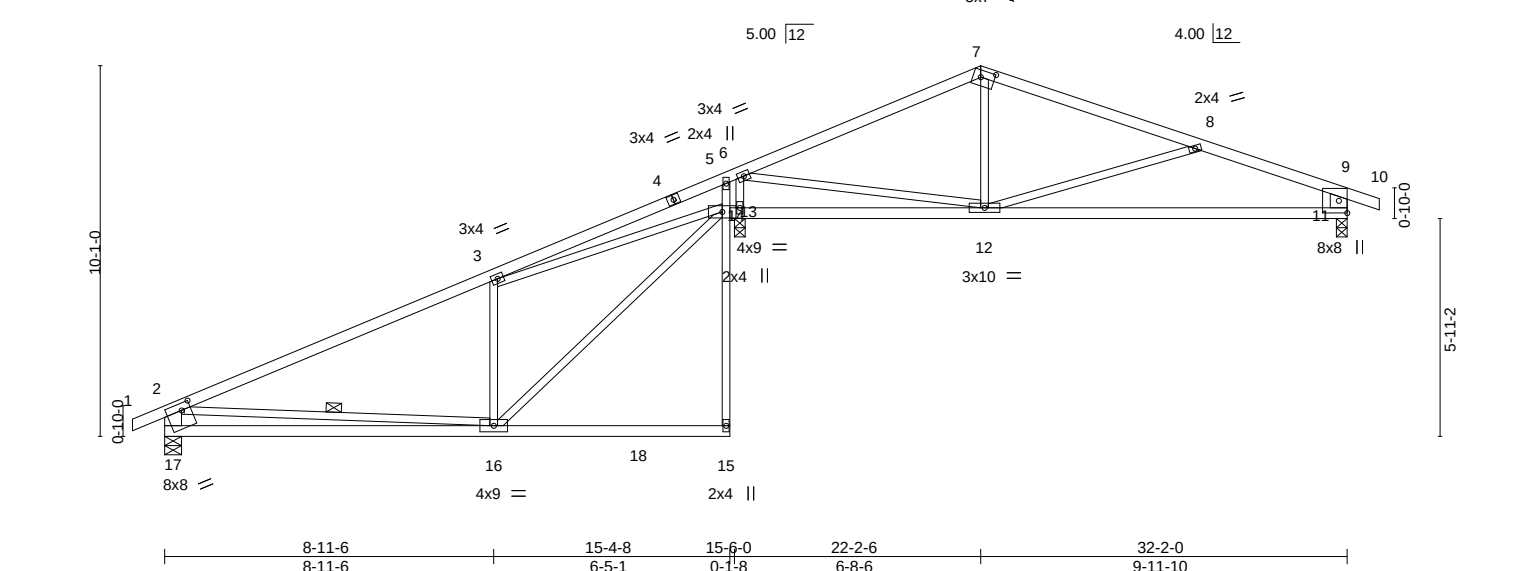


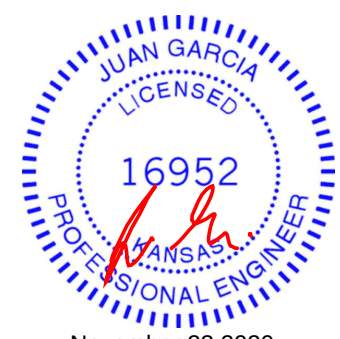
Plate Offsets (X,Y)--		[7:0-4-8,0-2-4], [17:0-3-0,0-2-4]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.21 11-12 >931 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.42 11-12 >463 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	-0.02 11 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05 12 >999 240	Weight: 122 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	5-15: 2x3 SPF No.2	WEBS	1 Row at midpt 2-16
WEBS	2x3 SPF No.2 *Except*		
	2-17,9-11: 2x6 SP DSS		

REACTIONS. (size) 17=0-5-8, 11=0-3-8, 13=0-3-8
 Max Horz 17=287(LC 8)
 Max Uplift 17=-75(LC 8), 11=-157(LC 5), 13=-297(LC 8)
 Max Grav 17=762(LC 23), 11=796(LC 2), 13=1542(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-877/14, 6-7=-934/119, 7-8=-876/105, 8-9=-1179/251, 2-17=-672/125, 9-11=-681/206
 BOT CHORD 16-17=-503/749, 5-14=-138/267, 11-12=-187/1042
 WEBS 3-16=-474/268, 14-16=-270/992, 3-14=-668/145, 6-12=-48/816, 7-12=0/288, 8-12=-371/217, 2-16=-81/311, 6-13=-1061/347

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 11=157, 13=297.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726181
HT 32	H8	Roof Special	1	2	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:03 2020 Page 1			
-0-10-8		8-11-6		15-4-8		ID:M6_qRERj_ax8BapGKEbrTSyOHsj-hPnXJwMUfYxY0MdfGluS1z98dDF1zRrxwxF92yHE_s	
0-10-8		8-11-6		6-5-2		22-2-6	
				6-9-14		23-2-0	
						27-0-6	
						0-11-10	
						3-10-6	

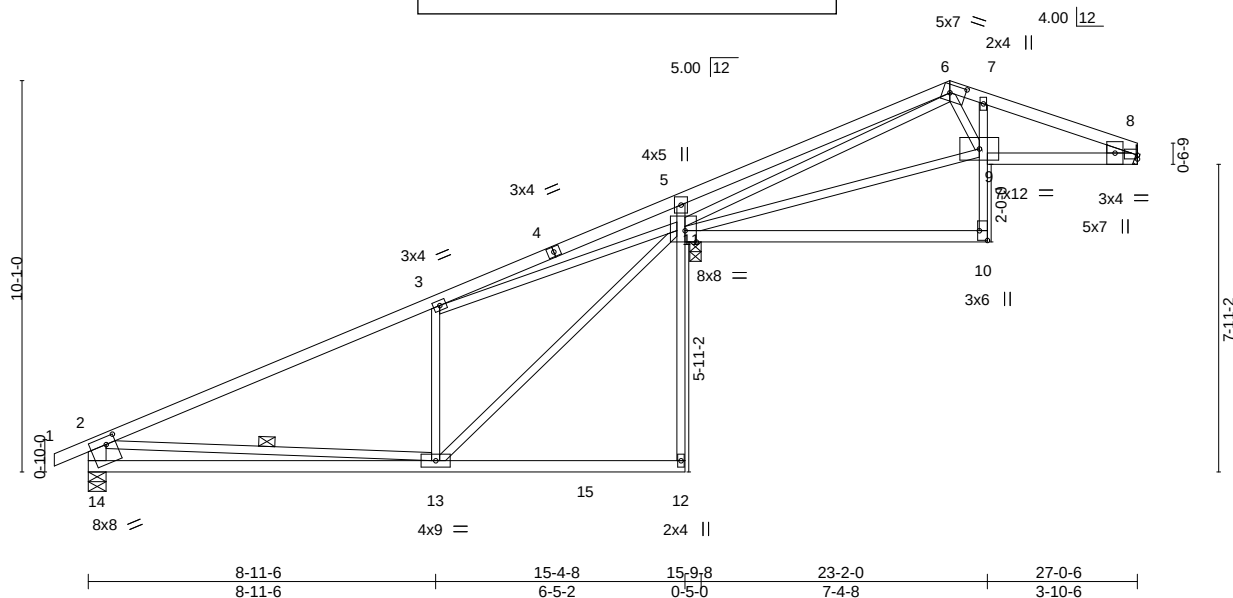


Plate Offsets (X,Y)-- [6:0-4-12,0-2-8], [8:0-0-0,0-1-3], [10:Edge,0-2-8], [11:0-3-8,Edge], [14:0-3-0,0-2-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.14 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.28 13-14	>646	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03 13-14	>999	240	Weight: 111 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 5-12,7-10: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-14: 2x6 SPF No.2

WEDGE

Right: 2x3 SPF No.2

REACTIONS.

(size) 14=0-5-8, 11=0-3-8, 8=Mechanical
 Max Horz 14=338(LC 8)
 Max Uplift 14=-53(LC 8), 11=-301(LC 8), 8=-64(LC 5)
 Max Grav 14=756(LC 2), 11=1288(LC 2), 8=530(LC 2)

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

TOP CHORD 2-3=-862/0, 5-6=-390/109, 6-7=-979/157, 7-8=-1120/127, 2-14=-668/104
 BOT CHORD 13-14=-549/752, 5-11=-547/241, 8-9=-92/1016
 WEBS 3-13=-442/262, 11-13=-270/963, 3-11=-657/107, 6-11=-561/50, 9-11=-143/736,
 6-9=-45/506, 2-13=-87/352

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 11=301.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

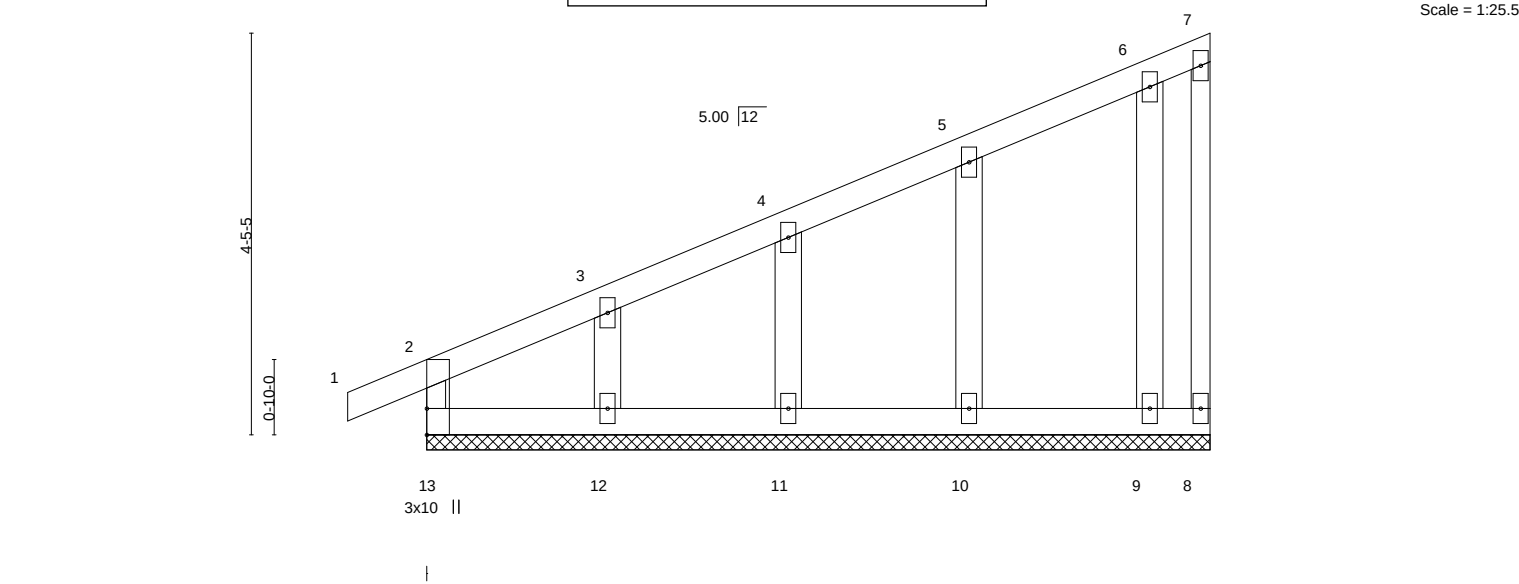
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	H9	GABLE				I43726182
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:04 2020 Page 1 ID:M6_qRERj_ax8BApGKEbTSyOHsj-9cLvWGM60G3PeWBrq?PhZBiUZdk5i5z48bhphUyHE_r			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.00	2	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 36 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	All bearings 8-8-0.
(lb) - Max Horz	13=184(LC 5)
Max Uplift	All uplift 100 lb or less at joint(s) 8, 12, 11, 10, 9
Max Grav	All reactions 250 lb or less at joint(s) 13, 8, 12, 11, 10, 9

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12, 11, 10, 9.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

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			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BAPGKEbrTSyOHsj-eoulkcNknZBFGgm2Oiw6OEXLO_6RYfENFQMDwyHE_q 12/16/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 32 HT			
HT 32	J1	Diagonal Hip		1	I43726183			
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)					
-1-4-13			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:05 2020 Page 1					
1-4-13			6-9-6					
			6-9-6					

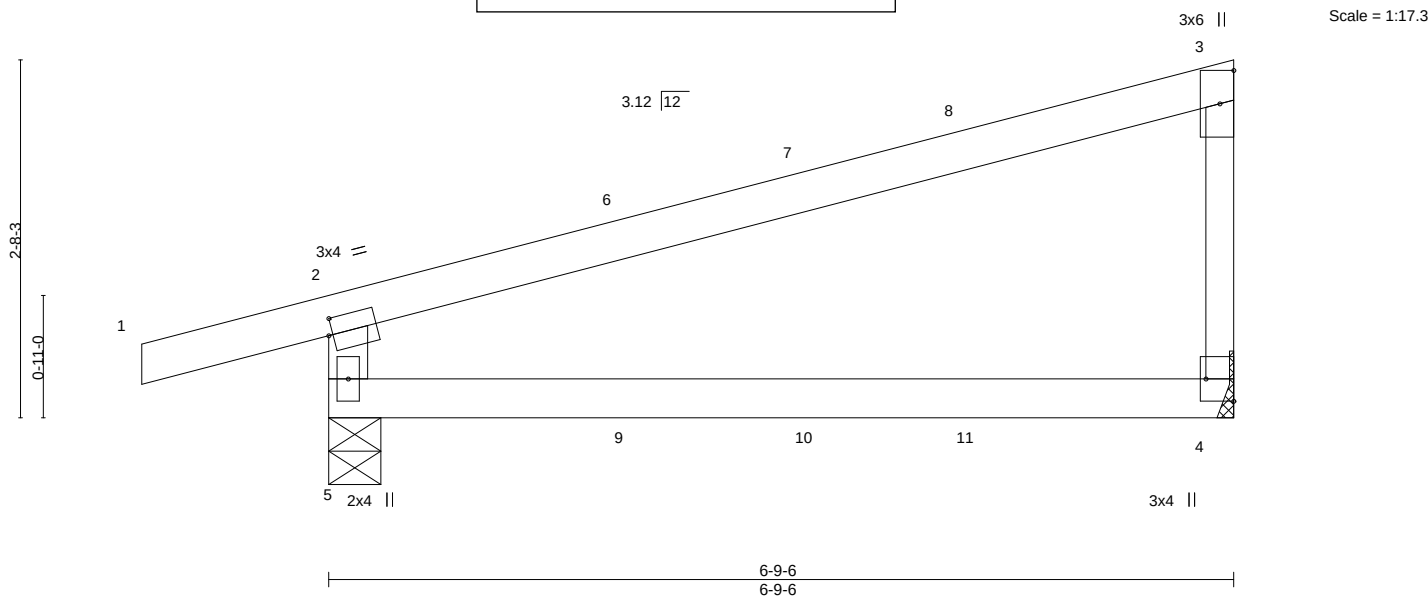


Plate Offsets (X,Y)-- [2:0-0-6,0-1-8], [4:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.15	4-5	>529	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 20 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 3-4: 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-4-11, 4=Mechanical
 Max Horz 5=107(LC 5)
 Max Uplift 5=-128(LC 4), 4=-68(LC 8)
 Max Grav 5=415(LC 1), 4=285(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-364/171

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=128.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 21 lb up at 2-3-15, and 87 lb down and 55 lb up at 3-8-2, and 78 lb down and 55 lb up at 4-10-10 on top chord, and 4 lb down and 7 lb up at 2-3-15, and 11 lb down at 3-8-2, and 15 lb down at 4-10-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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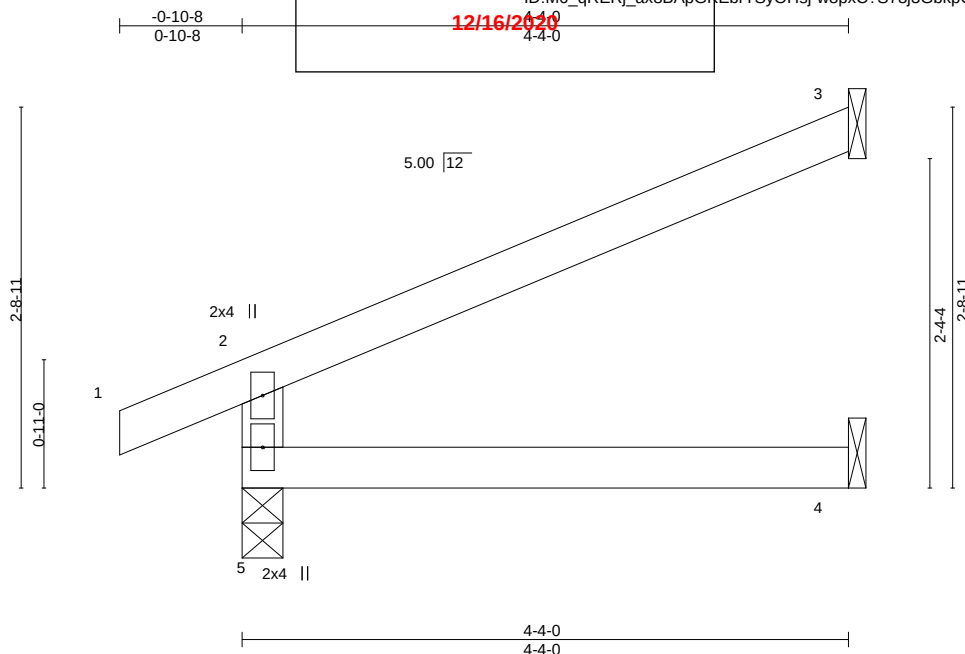
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT	I43726184
HT 32	J2	Jack-Open	1	3	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		ID:M6_qRERj_ax8BApGKEbrTSyOHsj-w8pxC?S78j3GbkpOlgYZut1qbrRPaiOF_rdEz0yHE_j			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.03	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

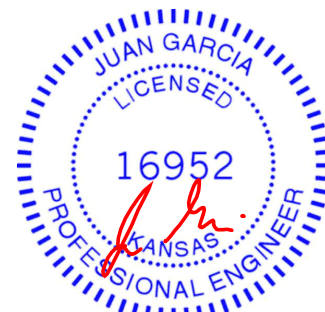
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=76(LC 8)
Max Uplift 5=-34(LC 8), 3=-68(LC 8)
Max Grav 5=266(LC 1), 3=128(LC 1), 4=78(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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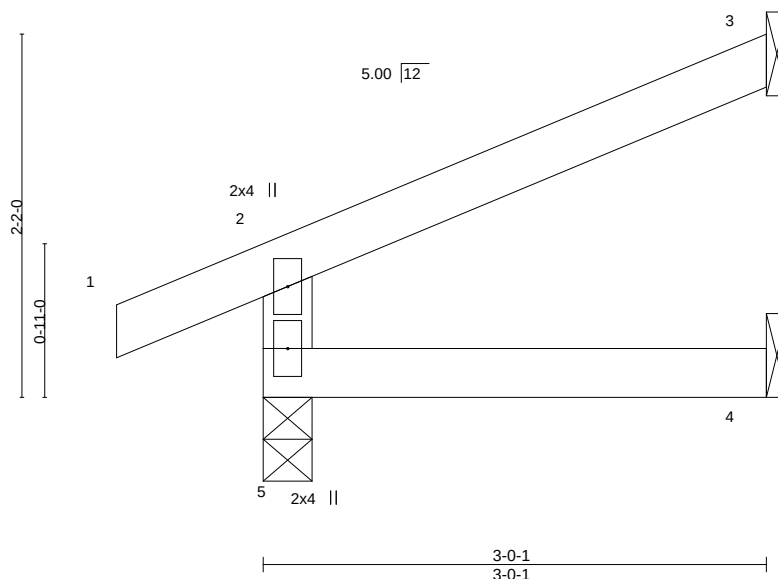
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Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726185
HT 32	J3	Jack-Open	1	2	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:19 2020 Page 1			
		-0-10-8 0-10-8		ID:M6_qRERj_ax8BApGKEbrTSyOHsj-DUlagOYWUtyGxprkCfACgLP3BgrPjt7HbRp6j6yHE_c 12/16/2020 3-0-1 3-0-1			

Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240	
								Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=55(LC 5)
 Max Uplift 5=-29(LC 8), 3=-47(LC 8)
 Max Grav 5=210(LC 1), 3=83(LC 1), 4=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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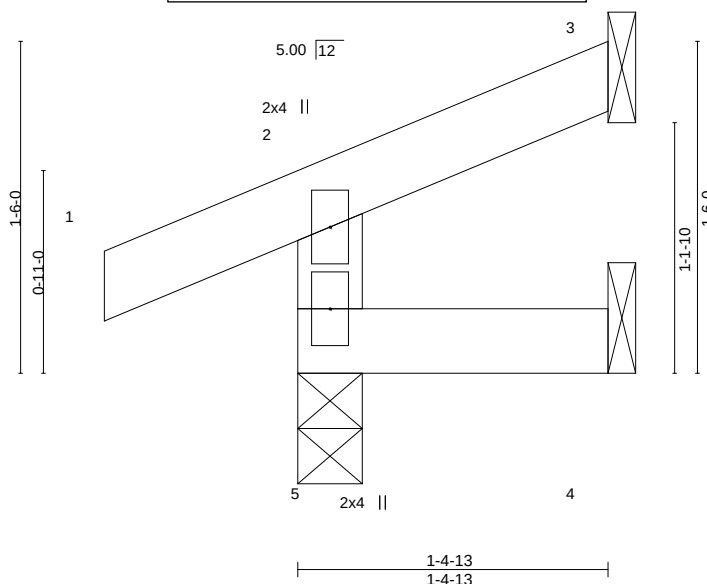
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 Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Qty	Ply	Lot 32 HT	I43726186		
HT 32	J4	Jack-Open	2	1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020			MiTek Industries, Inc. Fri Nov 20 16:55:25 2020 Page 1		
			ID:M6_qRERj_ax8BApGKEbTsyOHsj-2e6swRdH4jiQfkluzvHcwc3484vb7acAzMGQwmyHE_W					
			12/16/2020					
			-0-10-8 0-10-8 1-4-13 1-4-13					

Scale = 1:10.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00 5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 5	>999	240	Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

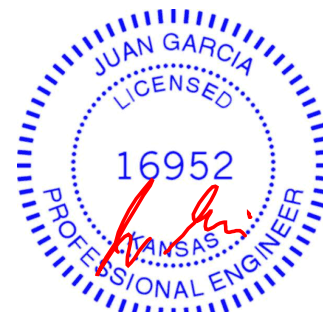
TOP CHORD Structural wood sheathing directly applied or 1-4-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=38(LC 5)
 Max Uplift 5=-33(LC 4), 3=-20(LC 8), 4=-1(LC 5)
 Max Grav 5=157(LC 1), 3=21(LC 1), 4=22(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

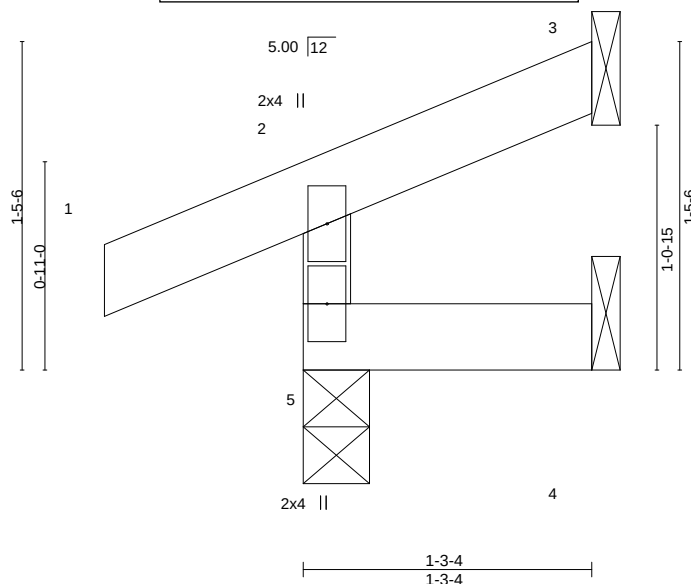
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGK			Lot 32 HT
HT 32	J5	Jack-Open				I43726187
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:31 2020 Page 1		
				Job Reference (optional)		
				EbrTSyOhsj-toT7BUh2fZTNfm1vAO09tJ6iVy1XI52Mlj8QyHE_Q		



Scale = 1:10.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=36(LC 5)
Max Uplift 5=32(LC 4), 3=18(LC 8), 4=2(LC 5)
Max Grav 5=150(LC 1), 3=15(LC 1), 4=21(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job		Truss	Truss Type	1			Lot 32 HT	I43726188
HT 32		J6	Diagonal Hip	Girder	1	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8,420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:34 2020 Page 1				
				ID:M6_qRERj_ax8BApGKEbrTSyOHsj-HN9FpWkwyUr8E7UcalynWxYUjrwkZwV2GyOllYHE_N				
1-4-13		4-3-8		8-7-0				
1-4-13		4-3-8		4-3-8				

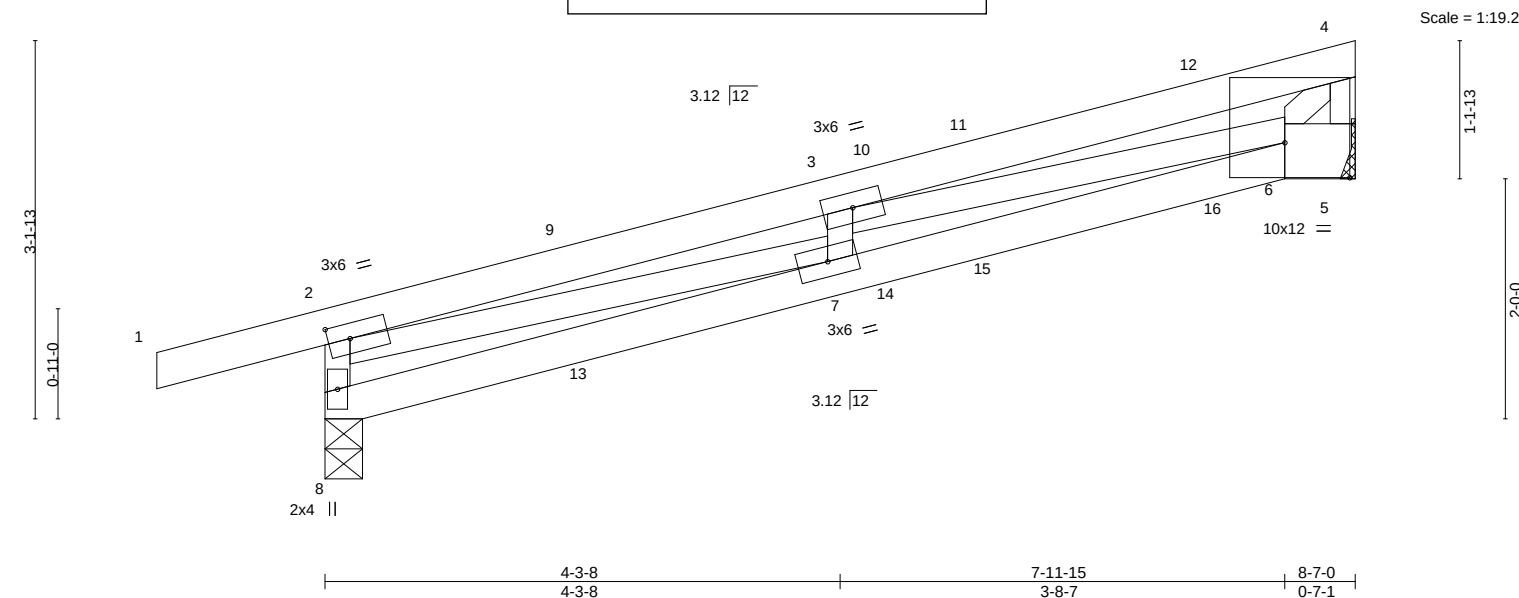


Plate Offsets (X,Y)-- [2:0-2-3,0-1-8], [5:0-6-8,0-3-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.07	7	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.12	7	>846	240	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P		Wind(LL)	0.06	7	>999	240	Weight: 30 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
5-6: 2x6 SPF No.2	
WEBS 2x3 SPF No.2	

REACTIONS. (size) 8=0-3-12, 5=Mechanical
Max Horz 8=93(LC 5)
Max Uplift 8=-145(LC 4), 5=-125(LC 8)
Max Grav 8=517(LC 1), 5=468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-466/178, 2-3=-1359/337, 3-4=-250/26, 4-5=-464/129
BOT CHORD 6-7=-397/1339
WEBS 2-7=-292/1284, 3-6=-1092/354, 4-6=-56/384

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145, 5=125.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 19 lb up at 2-1-6, 75 lb down and 34 lb up at 2-3-5, 77 lb down and 56 lb up at 4-8-1, and 108 lb down and 76 lb up at 5-5-12, and 100 lb down and 86 lb up at 7-4-12 on top chord, and 5 lb down and 9 lb up at 2-1-6, 3 lb down and 0 lb up at 2-3-5, 14 lb down at 4-8-1, and 26 lb down at 5-5-12, and 37 lb down at 7-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020					
Job	Truss	Truss Type	Girder	Qty	Ply	Lot 32 HT I43726188		
HT 32	J6	Diagonal Hip		1	1	Job Reference (optional)		
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:34 2020 Page 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-HN9FpWkwyUr8E7UcalyjnWxYUjrwkZwV2GyOillyHE_N					
LOAD CASE(S) Standard Uniform Loads (plf)								

LOAD CASE(S) Standard

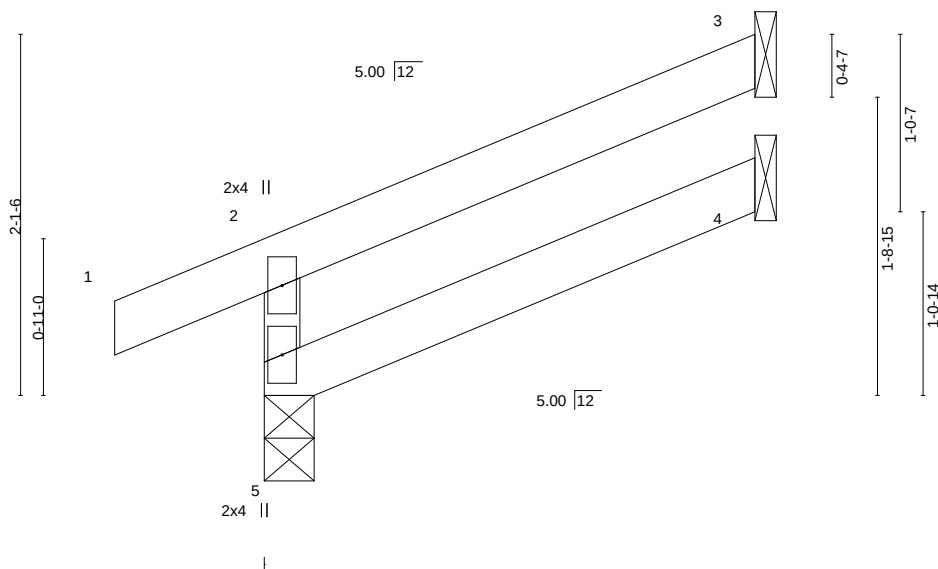
Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 6-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 11=-25(B) 12=-58(F) 13=2(F=2, B=0) 14=-2(F) 15=-17(B) 16=-27(F)

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726189
HT 32	J7	Jack-Open	1	Ply	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:35 2020 Page 1			
		-0-10-8 0-10-8		ID:M6_qRERj_ax8BApGKEbrTSyOhsj-lZid1skZjnz?SH3p80TyKjUoE6JAT65eGwhyHByHE_M 12/16/2020			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240	
								Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=55(LC 5)
Max Uplift 5=-26(LC 8), 3=-48(LC 8)
Max Grav 5=203(LC 1), 3=81(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

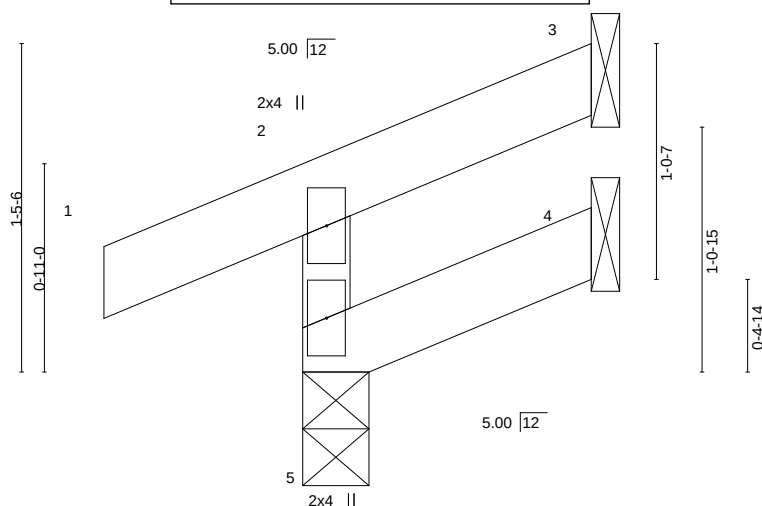
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	J8	Jack-Open	12/16/2020		1	I43726190
Wheeler Lumber, Waverly, KS - 66871,		ID: M6_gRERj_ax8BApGKEbrTSyOHsj-lZid1skZjnz?sH3p80TyKjUoh6JxT65eGwhyHByHE_M 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:35 2020 Page 1				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

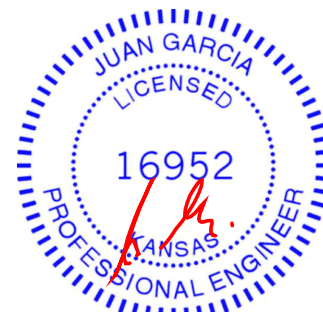
TOP CHORD Structural wood sheathing directly applied or 1-3-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=37(LC 5)
 Max Uplift 5=-30(LC 4), 3=-19(LC 8), 4=-3(LC 5)
 Max Grav 5=150(LC 1), 3=15(LC 1), 4=21(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

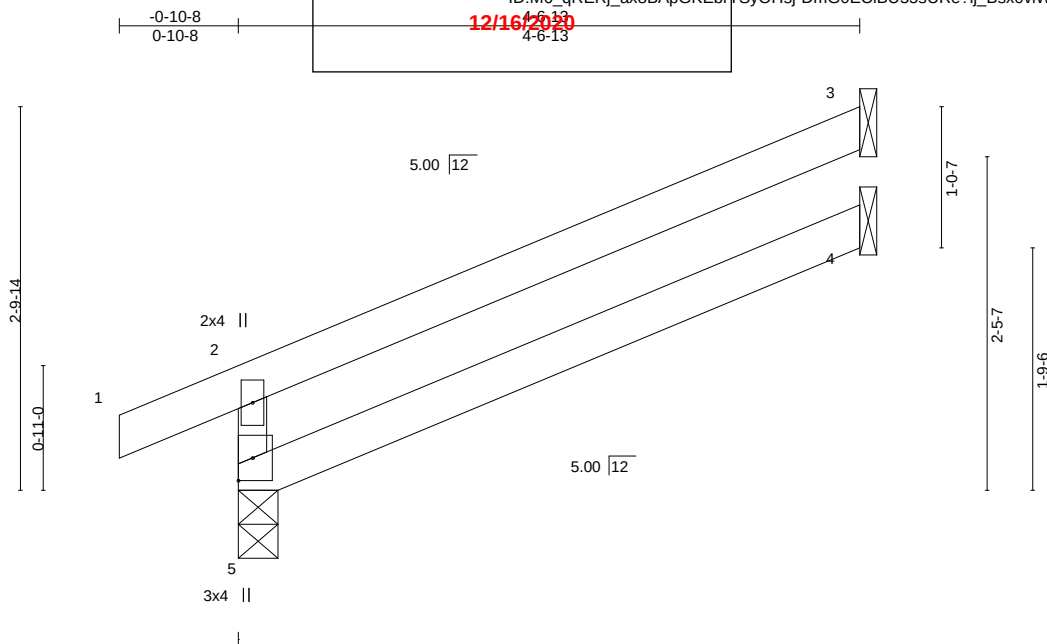
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbrTsyOHsj-DmG0ECIBU55sUR?ij_Bsx0viWdYCZKoVaRVpdyHE_L 12/16/2020			Lot 32 HT
HT 32	J9	Jack-Open				I43726191
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:36 2020 Page 1		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.02	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.04	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	4-5	>999	240	
								Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=79(LC 8)
 Max Uplift 5=-33(LC 8), 3=-76(LC 8)
 Max Grav 5=274(LC 1), 3=140(LC 1), 4=84(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_gRERj_ax8BApGKEbrTSyOHsj-6_SgxxOMYtJ6tpLExQS9ecnr0QQyA_vNcvAwIMyHE_p 12/16/2020			Lot 32 HT	I43726192
HT 32	J10	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:06 2020 Page 1				

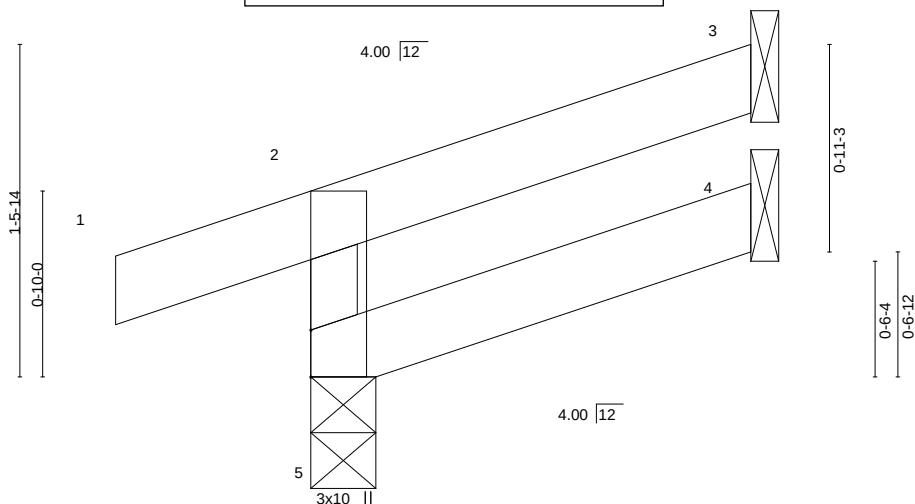


Plate Offsets (X,Y)--		[5:0-2-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

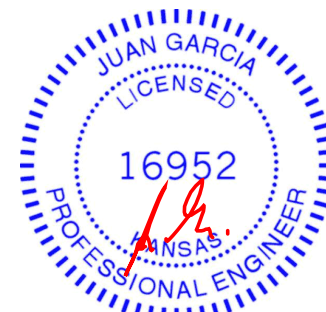
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=38(LC 5)
 Max Uplift 5=-53(LC 4), 3=-29(LC 8)
 Max Grav 5=170(LC 1), 3=48(LC 1), 4=35(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J11	Jack-Open				I43726193
Wheeler Lumber,		Waverly, KS - 66871,	ID:M6_qRERj_ax8BApGKEbT5yOHsj-6_SgxxOMYtJ6tpLExQS9ecnnYQOhA_vNcvAwIMyHE_p 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:06 2020 Page 1			

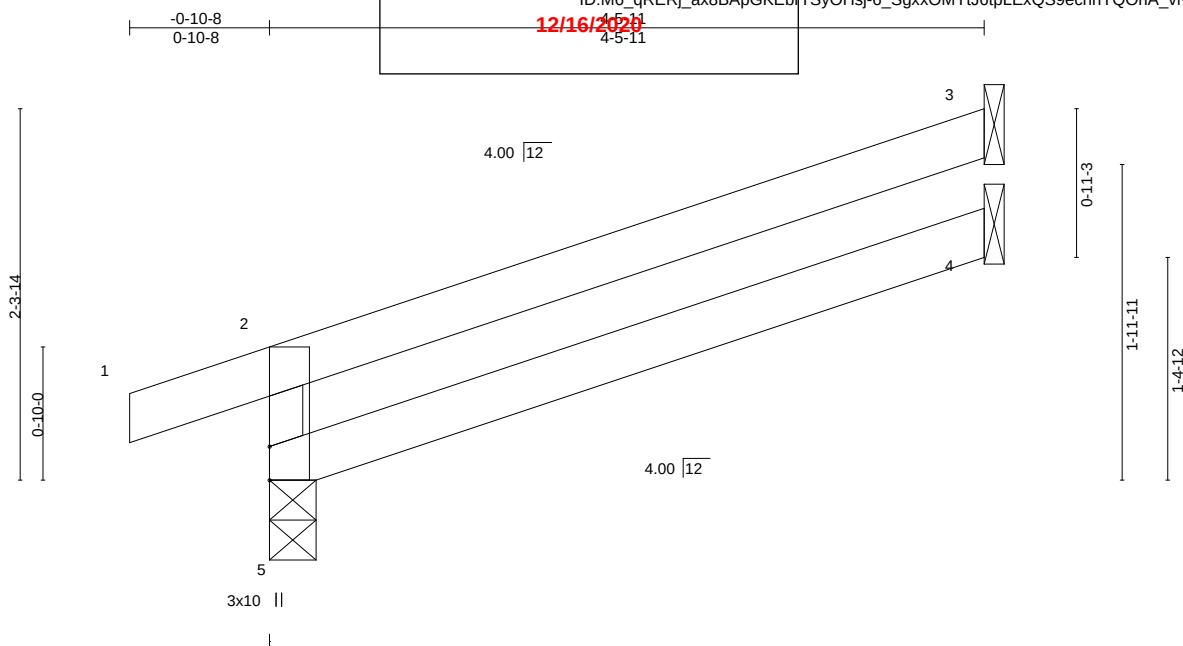


Plate Offsets (X,Y)--		[5:0-2-8,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01	Weight: 12 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=66(LC 4)
Max Uplift 5=63(LC 4), 3=67(LC 8)
Max Grav 5=270(LC 1), 3=137(LC 1), 4=82(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

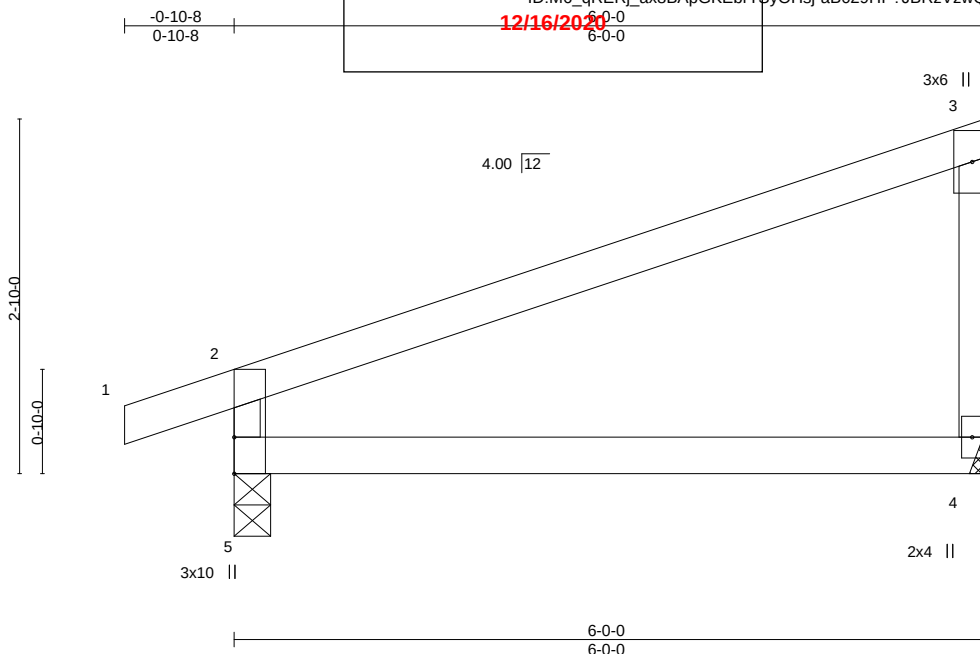
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI				Ply	Lot 32 HT		
HT 32	J12	Jack-Closed	ID:M6_qRERj_ax8BApGKEbrTSyOHSj-aB029HP?JBRzVzwQV7zOBpKvTqhCvR9WqZvTlpyHE_o 12/16/2020				1	I43726194		
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional)								
Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:07 2020 Page 1										



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.10	4-5	>716	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical
Max Horz 5=115(LC 5)
Max Uplift 5=84(LC 4), 4=57(LC 8)
Max Grav 5=335(LC 1), 4=255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-290/127

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J13	Jack-Closed				I43726195
Wheeler Lumber,		Waverly, KS - 66871,		ID:M6_gRERj_ax8BapGKEbrTSyOHsj-aB029HP?JBRzVzwQV7zOBpKwtqhFvR9WqZvTlpyHE_o 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:07 2020 Page 1		
-0-10-8 0-10-8				6-0-0 0-5-0		

Scale = 1:19.3

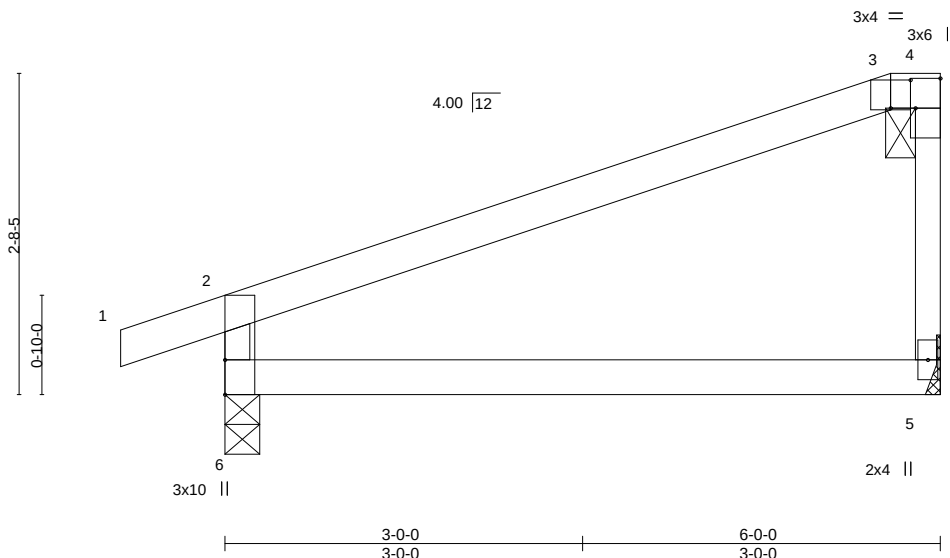


Plate Offsets (X,Y)--		[3:0-2-0,0-2-13], [4:Edge,0-2-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.05 5-6	>999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.10 5-6	>727 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 5	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 5-6	>999 240
				Weight: 17 lb		FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

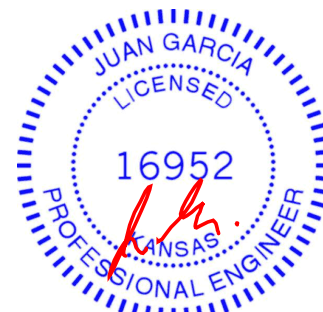
(size) 6=0-3-8, 5=Mechanical
Max Horz 6=111(LC 5)
Max Uplift 6=-84(LC 4), 5=-54(LC 4)
Max Grav 6=335(LC 1), 5=255(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-290/127

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 6, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: M6_qRERj_ax8BApGKEbrTSyOHsj-2NaQMdPd4UZq77Vc3rUdk1s5LE2let5g3Df0qFyHE_n
 12/16/2020

Job HT 32	Truss J14	Truss Type Jack-Closed Girder	Ply 1	Lot 32 HT Job Reference (optional)
Wheeler Lumber, Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:08 2020 Page 1		

0-10-8
0-10-8

3-7-0
3-7-0

6x8 =

6-0-0
2-5-0

Scale = 1:15.0

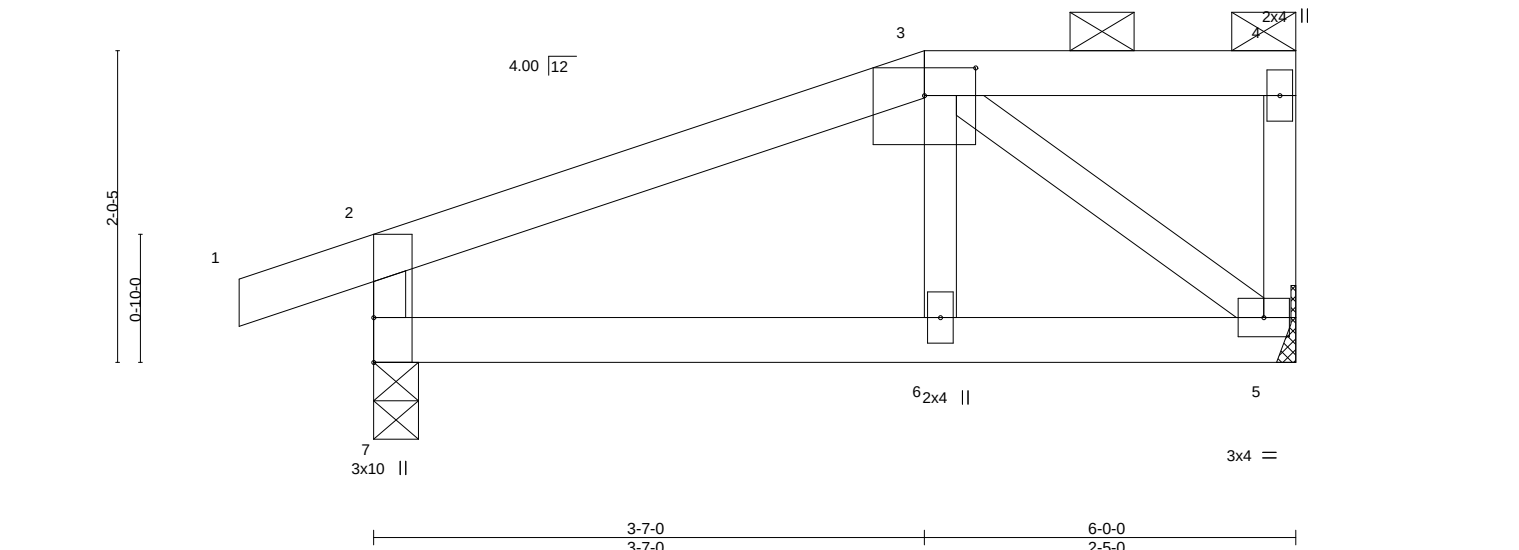


Plate Offsets (X,Y)--		[3:0-4-0,0-2-3]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.39	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(LL) -0.01 6 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.08	Vert(CT) -0.02 6 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 5 n/a n/a
			Wind(LL) 0.01 6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 20 lb FT = 10%

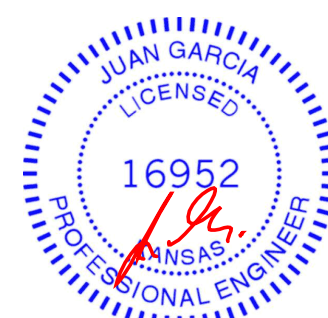
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2		

REACTIONS.	
(size)	7=0-3-8, 5=Mechanical
Max Horz	7=81(LC 22)
Max Uplift	7=100(LC 4), 5=94(LC 5)
Max Grav	7=384(LC 1), 5=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-7=-323/118, 2-3=-354/72
BOT CHORD	6-7=-84/288, 5-6=-80/292
WEBS	3-5=-350/79

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=100.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 181 lb down and 135 lb up at 3-7-0, and 66 lb down and 58 lb up at 5-10-12 on top chord, and 58 lb down at 3-7-0, and 40 lb down at 5-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20	
Concentrated Loads (lb)	
Vert: 4=-62(B) 5=-25(B) 6=-43(B) 3=-82(B)	



November 23, 2020

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020					
Job	Truss	Truss Type	Girder	On Ply	1	Lot 32 HT I43726197		
HT 32	J15	Diagonal Hip			1	Job Reference (optional)		
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s		Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:09 2020 Page 1		
				ID:M6_qRERj_ax8BApGKEbrT		SyOHsj-WZ8oZzQFrohkhH4pdY?sGEPHSeOdNLfptOaMhyHE_m		
				4-11-5				
				4-11-5				

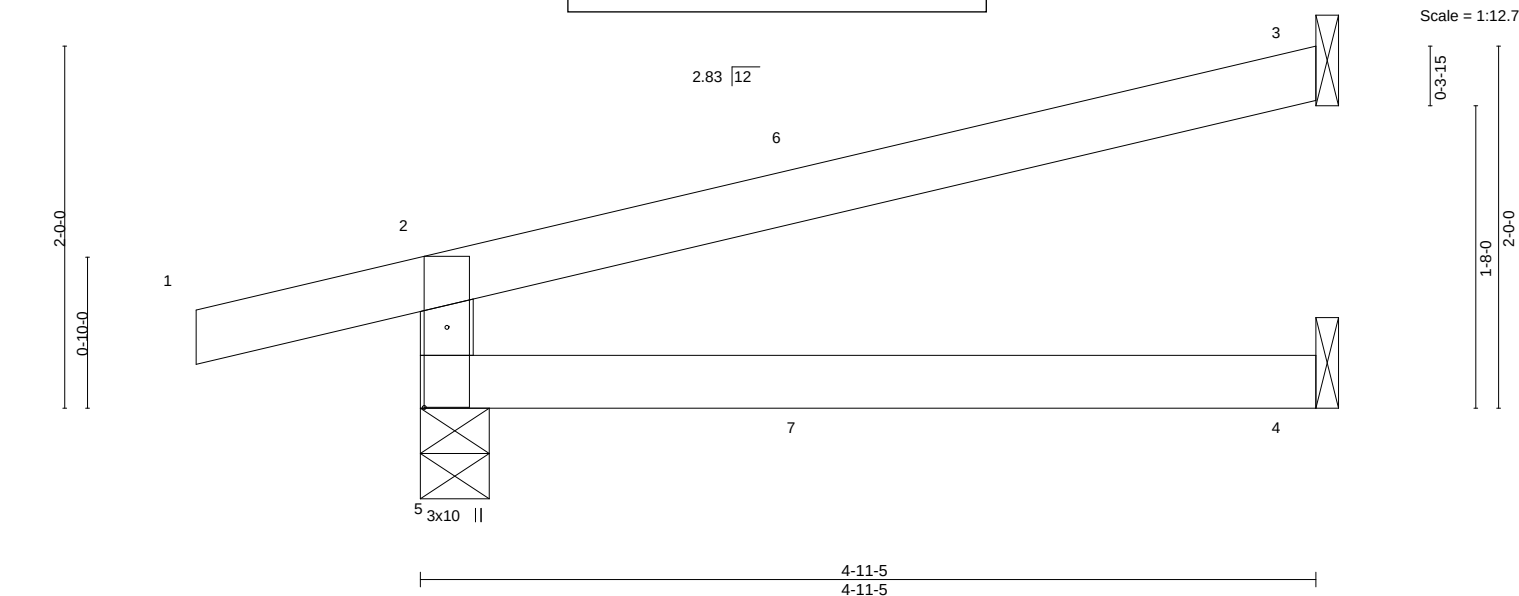


Plate Offsets (X,Y)--	[5:0-5-5,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.02	4-5	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.05	4-5	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.02	3	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	4-5	>999
							Weight: 13 lb
							FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=54(LC 4)
Max Uplift 5=95(LC 4), 3=63(LC 8)
Max Grav 5=322(LC 1), 3=145(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-284/134

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 22 lb up at 2-2-7, and 66 lb down and 22 lb up at 2-2-7 on top chord, and 3 lb down and 1 lb up at 2-2-7, and 3 lb down and 1 lb up at 2-2-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 7=3(F=1, B=1)



November 23, 2020

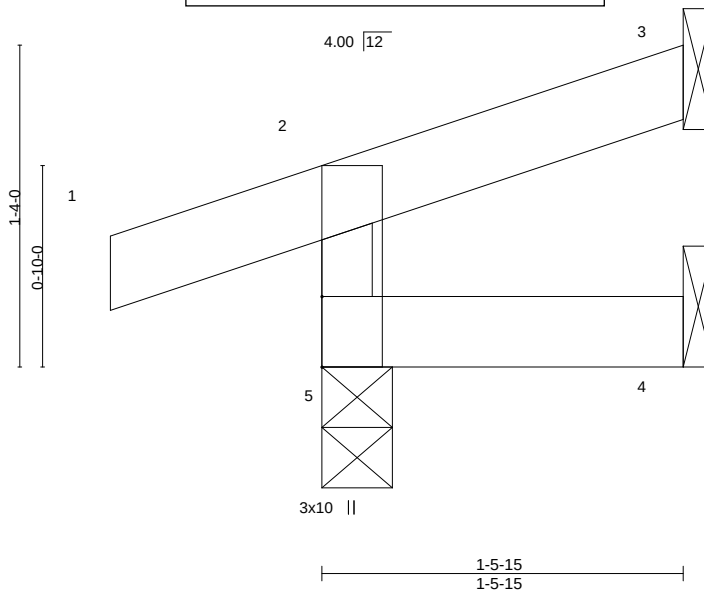
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726198
HT 32	J16	Jack-Open		Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:10 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTSyOHSj_liBnJRtc6pYMRf?AGW5pSyX01n66ouzXX87v8yHE_I				
			0-10-8 0-10-8		1-5-15 1-5-15		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=32(LC 5)
Max Uplift 5=-54(LC 4), 3=-20(LC 8)
Max Grav 5=155(LC 1), 3=27(LC 1), 4=26(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

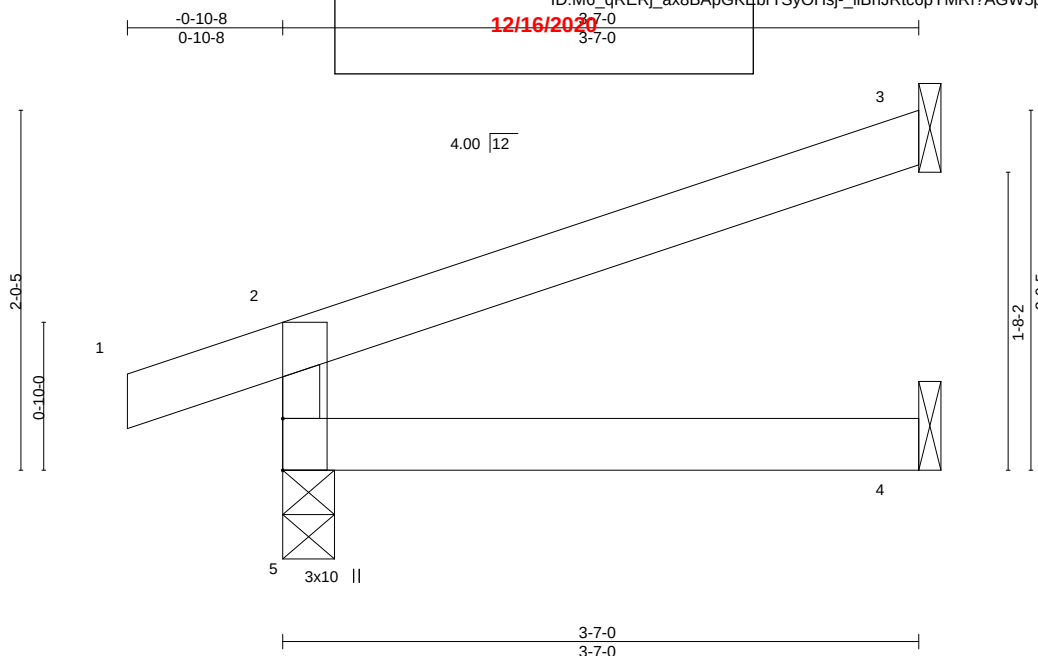
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	J17	Jack-Open			1	I43726199
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) ID:M6_qRERj_ax8BApGKEbrTSyOHsj_-liBnJrtc6pYMRf?AGW5pSyVQ1mi6ouzXX87v8yHE_I 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:10 2020 Page 1				



Scale = 1:13.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=55(LC 4)
 Max Uplift 5=59(LC 4), 3=53(LC 8)
 Max Grav 5=232(LC 1), 3=106(LC 1), 4=65(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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

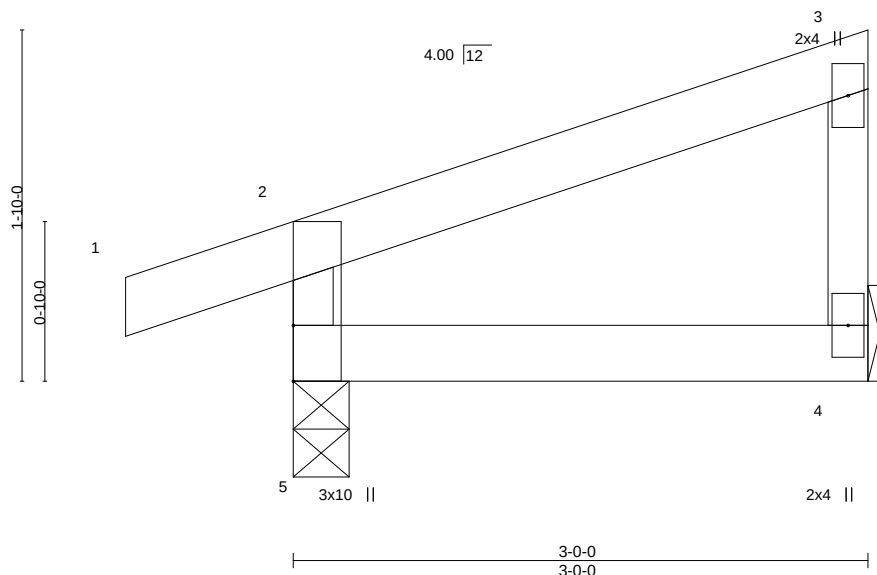
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726200
HT 32	J18	Jack-Closed	10	Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:11 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-SyGZ_fSVNPxP_bEBkz1KLfUhTR7drF86iBthRayHE_k				
			12/16/2020				
			3-0-0 3-0-0				

Scale: 1"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

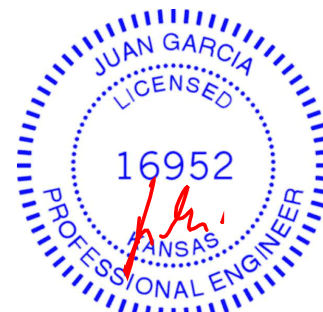
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical
 Max Horz 5=70(LC 5)
 Max Uplift 5=-65(LC 4), 4=-26(LC 8)
 Max Grav 5=206(LC 1), 4=114(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

HT 32

Truss

J19

Truss Type

Jack-Closed

Release for Construction

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

12/16/2020

Ply

1

Lot 32 HT

I43726201

Wheeler Lumber,

Waverly, KS - 66871,

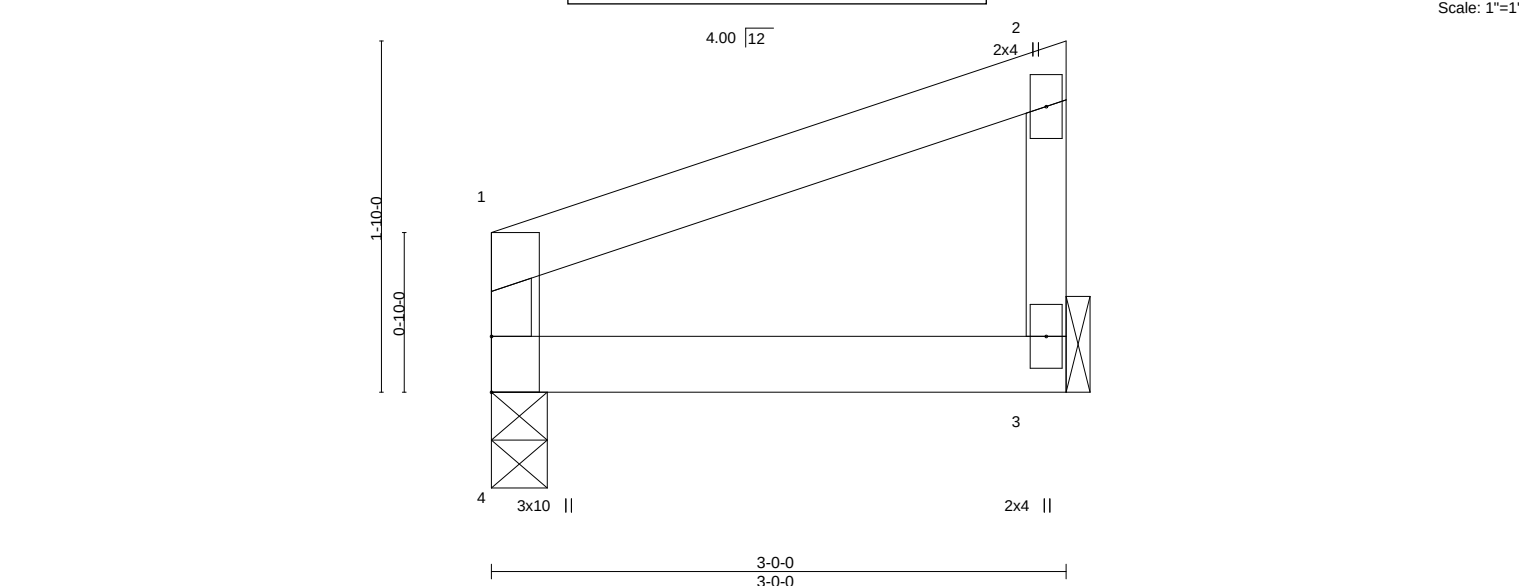
8.420 s Oct 9 2020

MiTek Industries, Inc.

Fri Nov 20 16:55:11 2020

Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	3-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	3-4	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4	>999	240	
								Weight: 8 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 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	

REACTIONS. (size) 4=0-3-8, 3=Mechanical
 Max Horz 4=63(LC 5)
 Max Uplift 4=-19(LC 4), 3=-29(LC 8)
 Max Grav 4=126(LC 1), 3=126(LC 1)

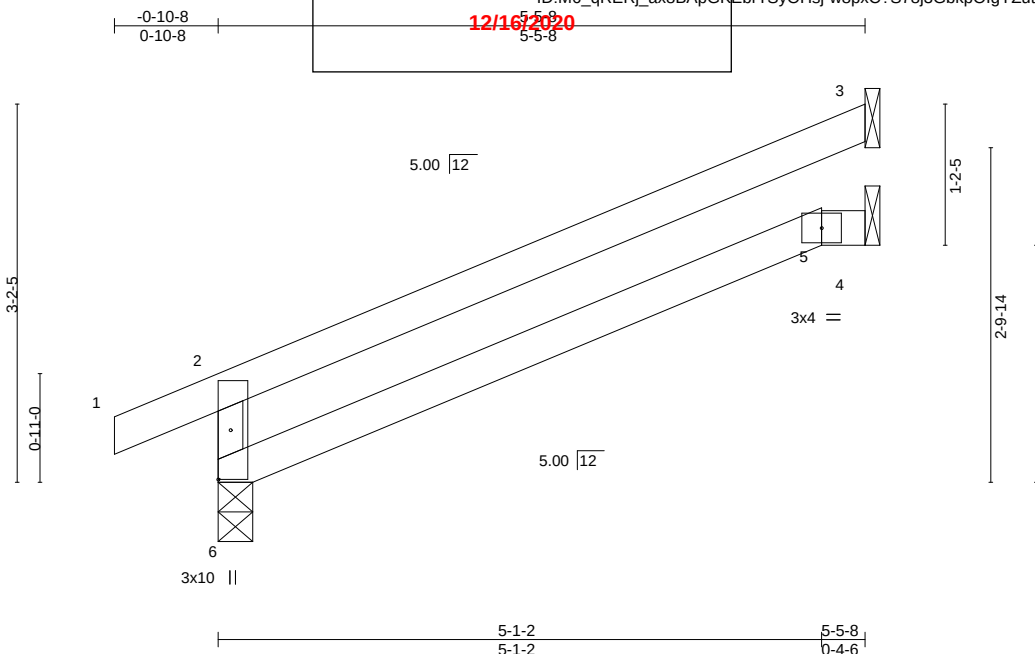
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbrTSyOHsj-w8pxC?S78j3GbkpOlgYZut1mKrPaaiOF_rdEz0yHE_j 12/16/2020			Lot 32 HT	I43726202
HT 32	J20	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:12 2020 Page 1				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.04	5-6	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.09	5-6	>702	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.04	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.04	5-6	>999	240	
								Weight: 15 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 6=94(LC 8)
 Max Uplift 6=-37(LC 8), 3=-90(LC 8)
 Max Grav 6=313(LC 1), 3=170(LC 1), 4=101(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-6=-269/85

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

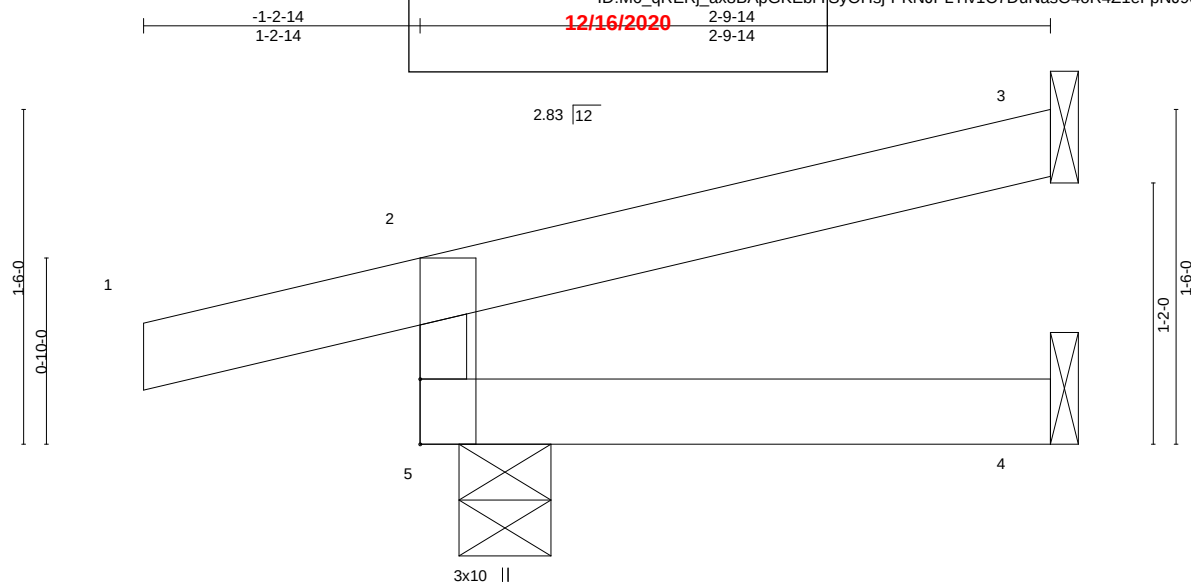
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Girder	Ply	Lot 32 HT	I43726203		
HT 32	J21	Diagonal Hip		1	Job Reference (optional)			
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s		Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:13 2020 Page 1		
		-1-2-14 1-2-14		ID:M6_qRERj_ax8BapGKEbrTsyOHsj-PKNJPLTiv1C7DuNasO4oR4Z1eFpNJ9ePDVMnVSyHE_i 12/16/2020				
				2-9-14 2-9-14				



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00 4-5 >999 360	MT20		197/144	
BOT	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00 4-5 >999 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00 3 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 4-5 >999 240	Weight: 8 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-15, 3=Mechanical, 4=Mechanical
 Max Horz 5=41(LC 7)
 Max Uplift 5=99(LC 6), 3=-45(LC 12), 4=-2(LC 19)
 Max Grav 5=96(LC 1), 3=29(LC 1), 4=36(LC 3)

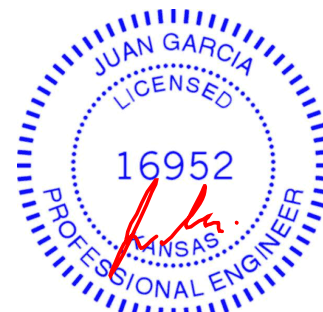
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Concentrated Loads (lb)
 Vert: 1=-32(F=-16, B=-16)
 Trapezoidal Loads (plf)
 Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 2=-2(F=34, B=34)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=3)



November 23, 2020

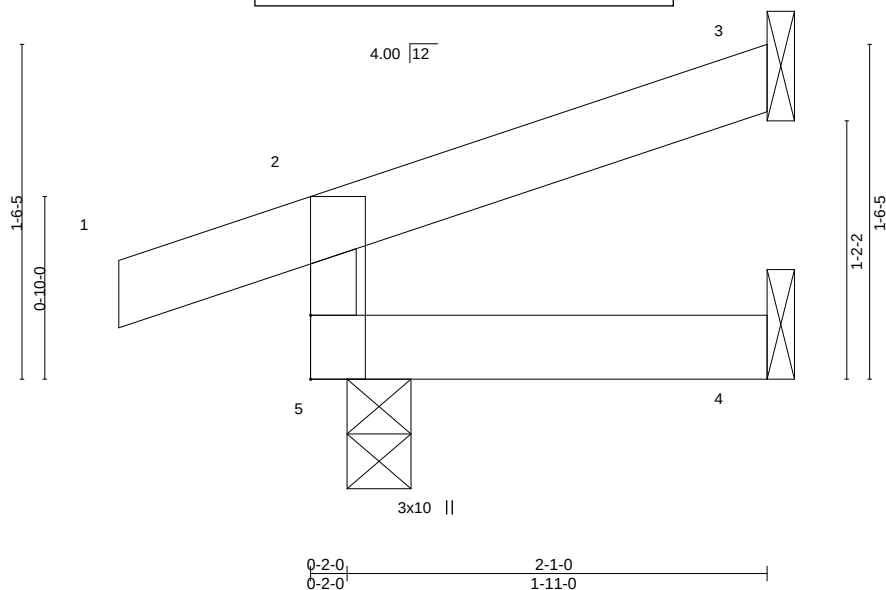
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BapGKEbrTsyOHsj-PKNJPLTiv1C7DuNasO4oR4Z2FFpZJ9ePDVMnVSyHE_i 12/16/2020			Lot 32 HT	I43726204
HT 32	J22	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:13 2020 Page 1				
			-0-10-8	0-10-8	2-1-0	2-1-0	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

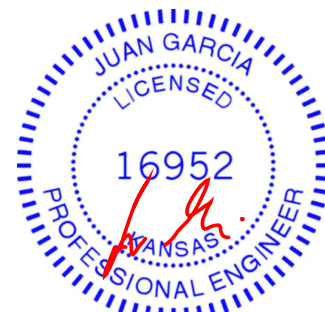
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=37(LC 5)
Max Uplift 5=-54(LC 4), 3=-29(LC 8)
Max Grav 5=172(LC 1), 3=51(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

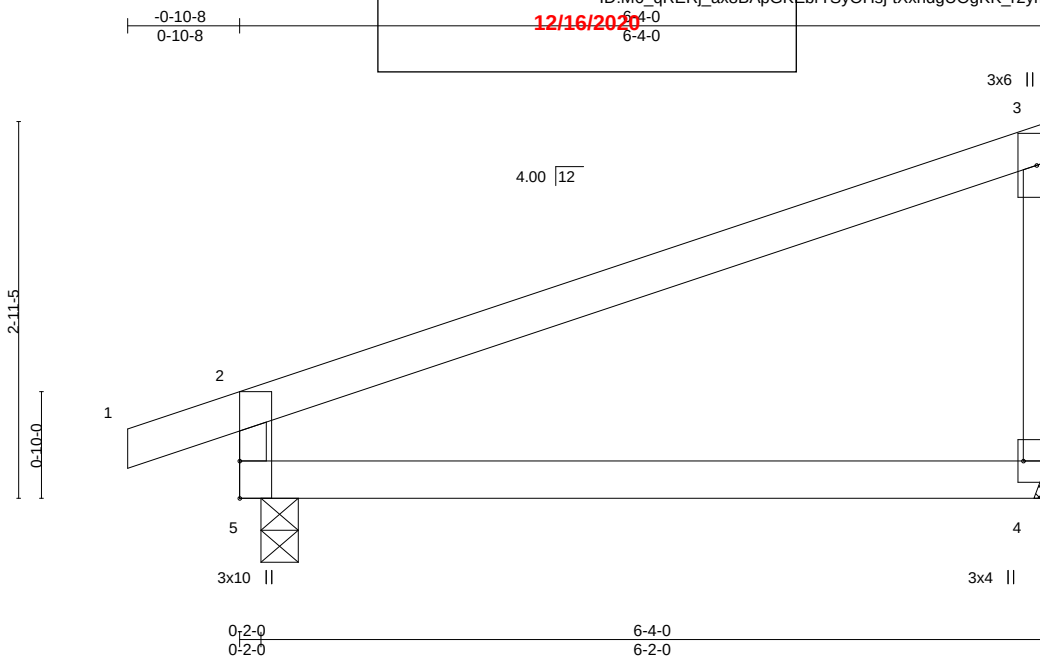
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J23	Jack-Closed				I43726205
Wheeler Lumber, Waverly, KS - 66871,			ID:M6_gRERj_ax8BApGKEbrTSyOHSj-tXxhdgUOgKK_r2ymP5b1zI65jf4H2cuYR96L2vyHE_h 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:14 2020 Page 1			Job Reference (optional)



Scale = 1:18.0

Plate Offsets (X,Y)-- [4:Edge,0-2-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.06 4-5	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.12 4-5	>605	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 4	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02 4-5	>999	240
				PLATES		GRIP	
				MT20		197/144	
				Weight: 18 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 4=Mechanical
Max Horz 5=120(LC 5)
Max Uplift 5=-86(LC 4), 4=-61(LC 8)
Max Grav 5=350(LC 1), 4=270(LC 1)

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

TOP CHORD 2-5=-303/131

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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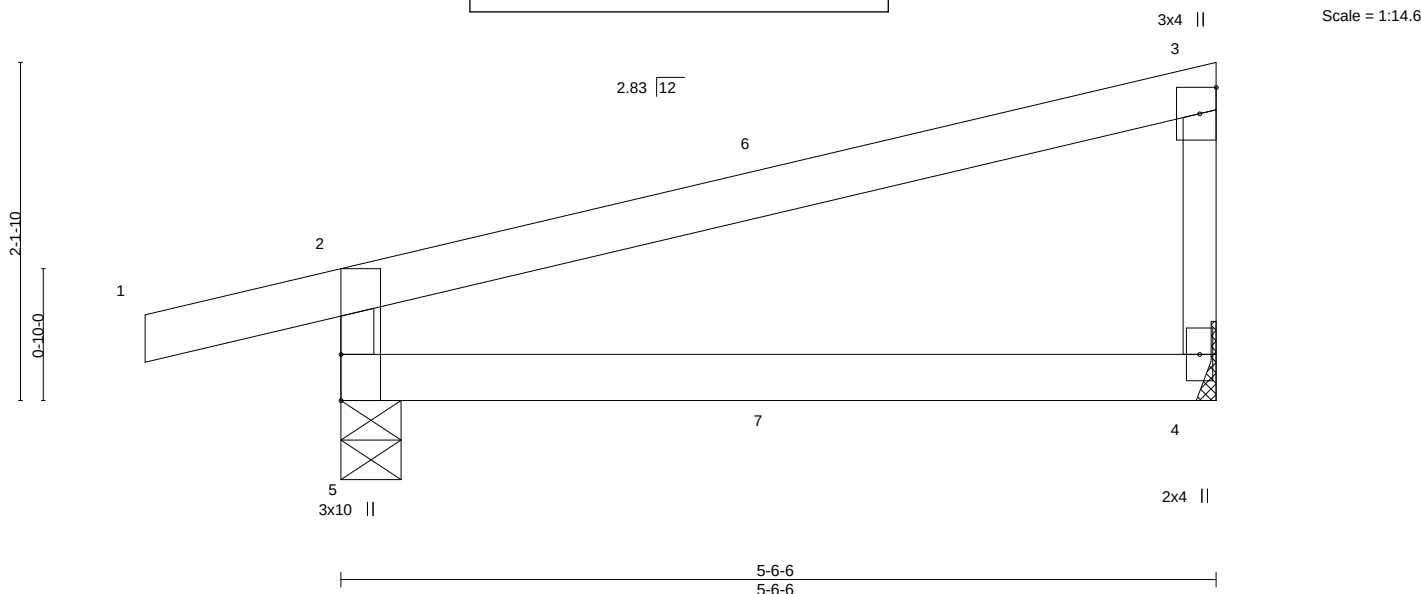
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	J24	Diagonal Hip	Girder		1	143726206
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional) ID: M6_qRERj_ax8BApGKEbrTSyOHsj-LjV4q0V0ReSrSCXzpz6GWVfIP2RYn38igpruaLyHE_g 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:15 2020 Page 1			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	-0.03 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.07 4-5	>973	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-4-9, 4=Mechanical
 Max Horz 5=81(LC 5)
 Max Uplift 5=-103(LC 4), 4=-47(LC 8)
 Max Grav 5=345(LC 1), 4=227(LC 1)

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

TOP CHORD 2-5=-302/140

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 32 lb up at 2-9-8, and 67 lb down and 32 lb up at 2-9-8 on top chord, and 2 lb down and 0 lb up at 2-9-8, and 2 lb down and 0 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=1(F=0, B=0)



November 23, 2020

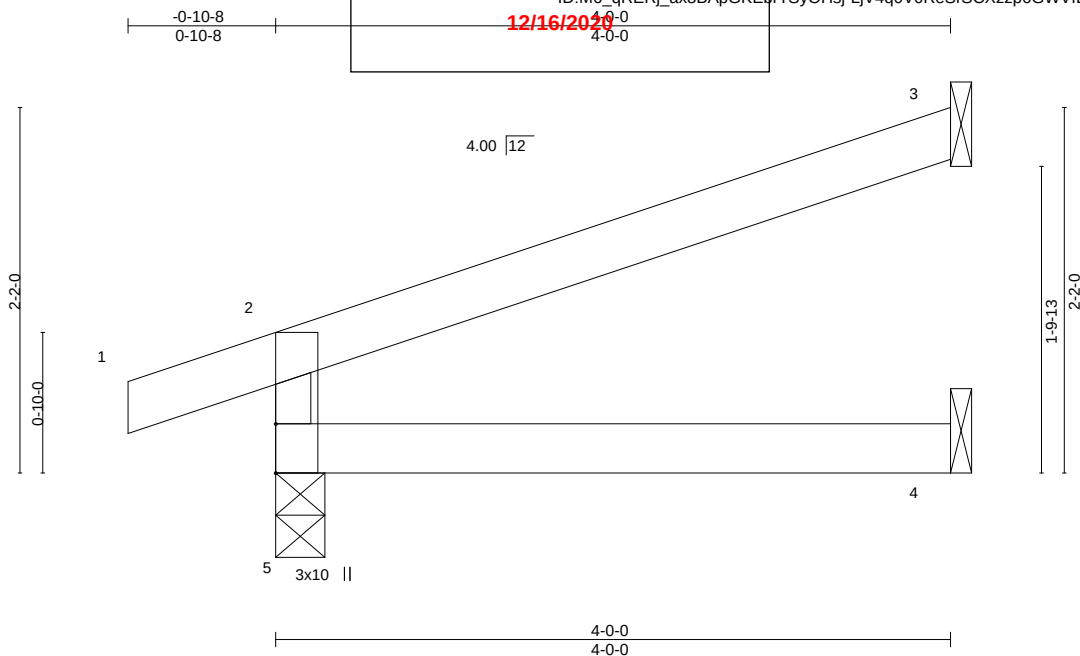
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16023 Swingley Ridge Rd
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT	I43726207
HT 32	J25	Jack-Open		Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,		ID: M6_gRERj_ax8BApGKEbrTSyOHsj-LjV4q0V0ReSrSCXzpz6GWVfLM2SON38igpruaLyHE_g 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:15 2020 Page 1					
-0-10-8 0-10-8							



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.01	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	Weight: 11 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=60(LC 4)
 Max Uplift 5=61(LC 4), 3=59(LC 8)
 Max Grav 5=250(LC 1), 3=120(LC 1), 4=73(LC 3)

FORCES.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

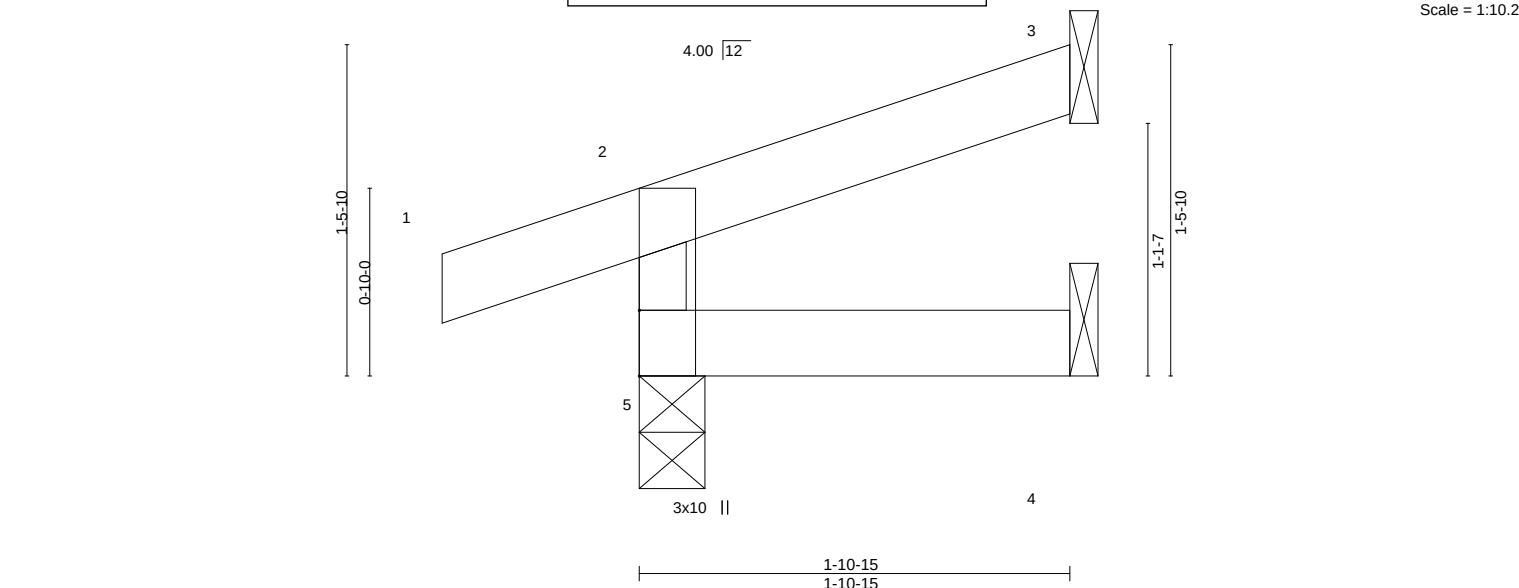
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726208
HT 32	J26	Jack-Open		Ply	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8,420 sq ft 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:16 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-pv3S2MWeByai4M69XWdV2jBZVSqJWWNrvTbS6nyHE_f				
			-0-10-8 0-10-8 1-10-15 1-10-15 12/16/2020				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

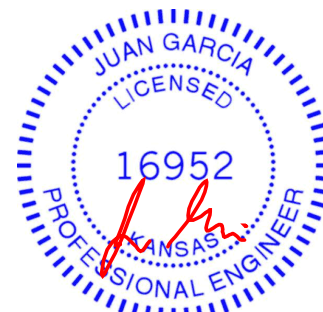
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=36(LC 5)
Max Uplift 5=-54(LC 4), 3=-27(LC 8)
Max Grav 5=168(LC 1), 3=46(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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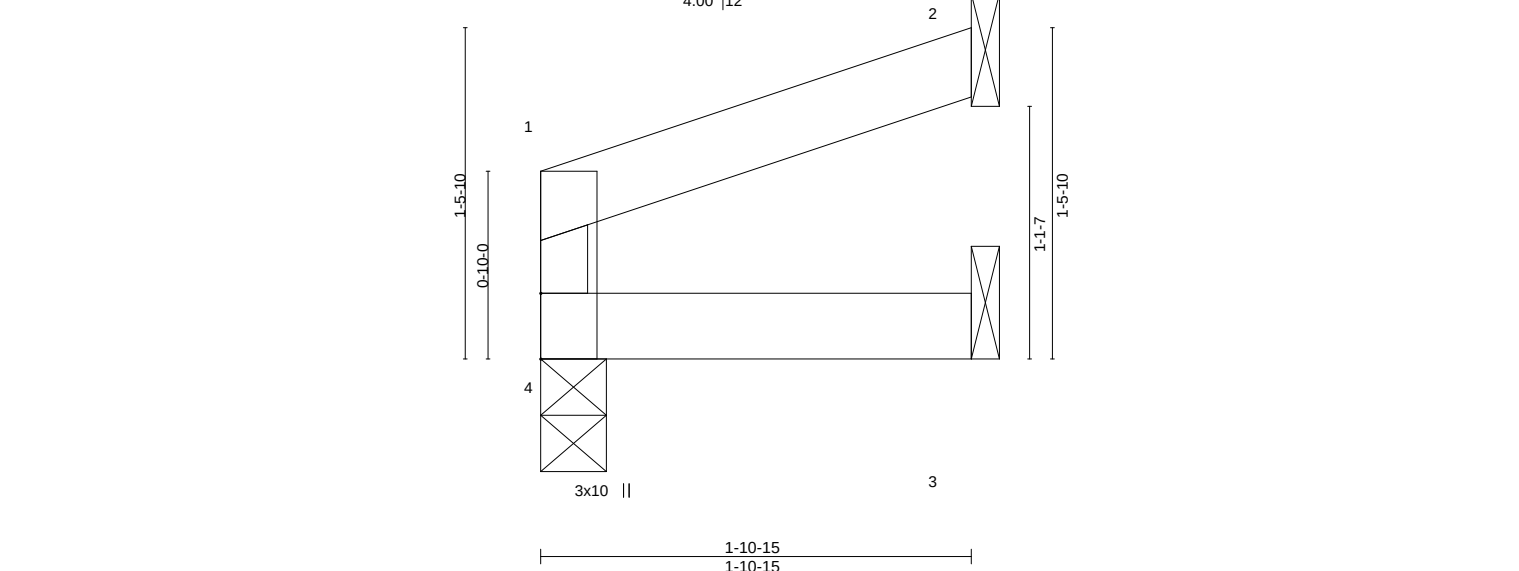
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	J27	Jack-Open			1	I43726209

Wheeler Lumber, Waverly, KS - 66871, ID: M6_qRERj_ax8BApGKEbrTSyOHsj-pv3S2MWeByai4M69XWdV2jBZISqlWWNrvTbS6nyHE_f 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:16 2020 Page 1
 12/15/2020



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	3-4	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4	>999	240	
								Weight: 5 lb	FT = 10%

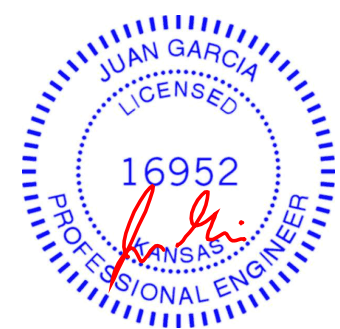
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical
 Max Horz 4=29(LC 5)
 Max Uplift 4=-5(LC 4), 2=-31(LC 8)
 Max Grav 4=81(LC 1), 2=60(LC 1), 3=35(LC 3)

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

NOTES-
 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 4) Refer to girder(s) for truss to truss connections.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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

- Members:** Labeled 1 through 16.
- Dimensions:**
 - Vertical dimension on the left: 2'-9.2"
 - Horizontal dimension below member 1: 0'-11.0"
 - Horizontal dimension at the bottom: 7'-0.14"
 - Horizontal dimension at the bottom right: 1'-10-11"
 - Vertical dimension on the right: 1'-9.2"
 - Vertical dimension on the far right: 1'-0-0"
- Material Specifications:**
 - Member 8: 4x9 ||
 - Member 13: 5-2-3
 - Member 14: 5-1-12
 - Member 15: 2x4 ||
 - Member 16: 5x7 =
 - Member 3: 4x5 ||
 - Member 6: 3x6 ||
 - Member 12: 3x6 ||
- Other Labels:**
 - 3.12 | 12
 - 11
 - 10
 - 9
 - 2
 - 1
 - 5
 - 4
 - 7
 - 13
 - 14
 - 15
 - 16

LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 WEBS 2x3 SPF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS. (size) 8=0-4-11, 5=Mechanical Max Horz 8=93(LC 5) Max Uplift 8=-134(LC 4), 5=-97(LC 8) Max Grav 8=439(LC 1), 5=351(LC 1)			

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=134.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 17 lb up at 2-0-6, 75 lb down and 34 lb up at 2-4-2, and 76 lb down and 54 lb up at 4-7-2, and 96 lb down and 45 lb up at 5-6-9 on top chord, and 4 lb down and 8 lb up at 2-0-6, 2 lb down and 0 lb up at 2-4-2, and 14 lb down at 4-7-2, and 56 lb down and 47 lb up at 5-6-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

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November 23, 2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017



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			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Girder	Ply	Lot 32 HT	I43726211		
HT 32	J29	Diagonal Hip	1	1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:18 2020 Page 1					
1-2-14			ID:M6_qRERj_ax8BapGKEbrTSyOHSj-IIBCS2XujZqPjGgXexfz88Hr9GTH_NM8Mn4YBgYHE_d					
1-2-14			8-2-3					
			4-1-2					

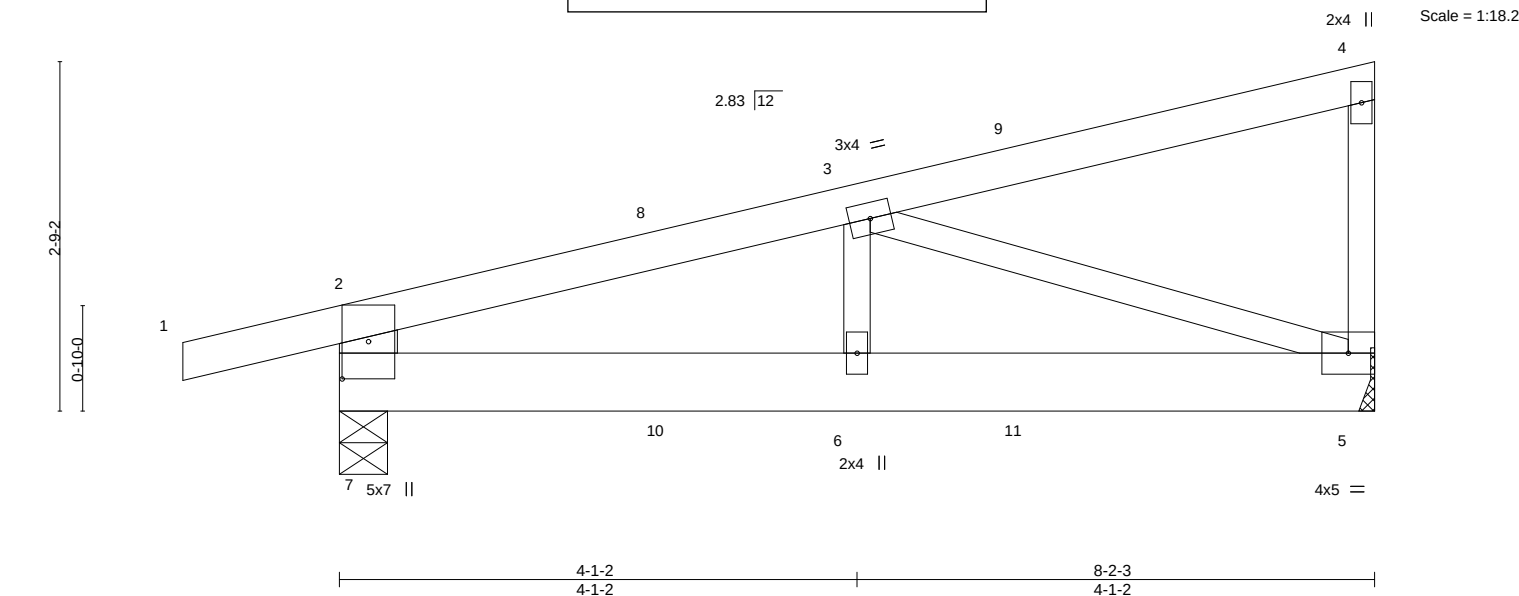


Plate Offsets (X,Y)-- [7:0-3-9,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.02 6 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03 5-6 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00 5 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.01 6 >999 240	Weight: 32 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x6 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=0-4-9, 5=Mechanical
 Max Horz 7=105(LC 5)
 Max Uplift 7=-135(LC 4), 5=-84(LC 8)
 Max Grav 7=482(LC 1), 5=378(LC 1)

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

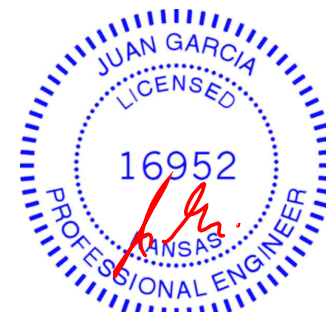
TOP CHORD 2-7=-374/137, 2-3=-540/101
 BOT CHORD 6-7=-113/491, 5-6=-113/491
 WEBS 3-5=-499/129

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=135.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 29 lb up at 2-7-6, 67 lb down and 29 lb up at 2-7-6, and 92 lb down and 64 lb up at 5-5-5, and 92 lb down and 64 lb up at 5-5-5 on top chord, and 3 lb down and 1 lb up at 2-7-6, 3 lb down and 1 lb up at 2-7-6, and 21 lb down at 5-5-5, and 21 lb down at 5-5-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-2=-70, 2-4=-70, 5-7=-20
- Concentrated Loads (lb)
 Vert: 9=-28(F=-14, B=-14) 10=1(F=1, B=1) 11=-24(F=-12, B=-12)



November 23, 2020

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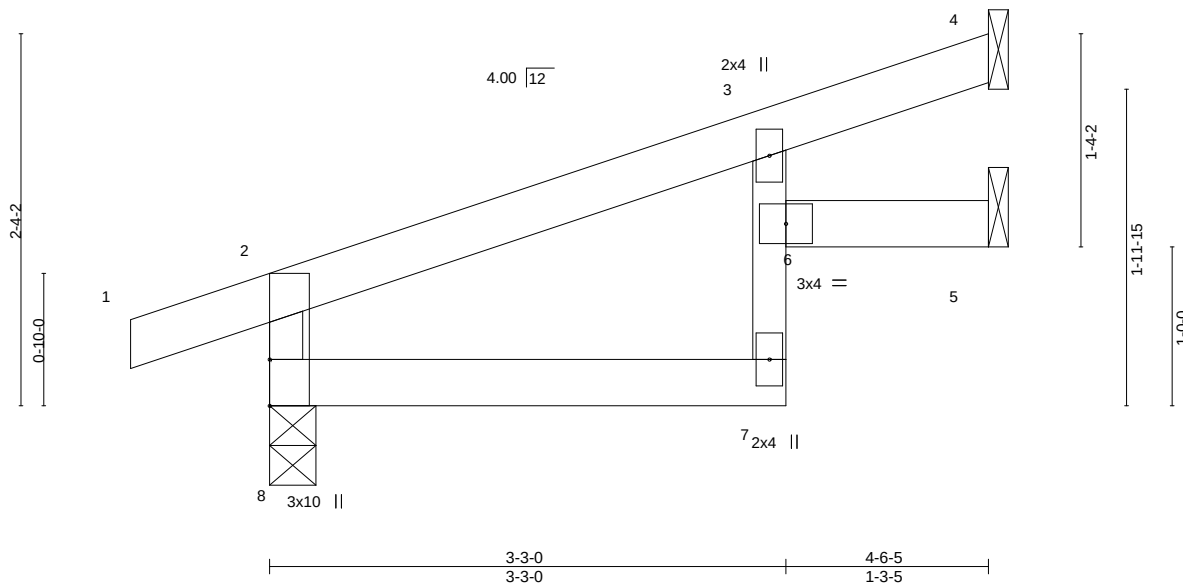
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT	I43726212
HT 32	J30	Jack-Open	1	Ply	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:19 2020 Page 1			
				ID:M6_qRERj_ax8BApGKEbrTSyOHSj-DUlagOYWUtyGxprkCfACgLP2Kgopjt7HbRp6j6yHE_c			

Scale = 1:14.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.03				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01				
								Weight: 13 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-7: 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=68(LC 4)
Max Uplift 8=-64(LC 4), 4=-32(LC 8), 5=-21(LC 8)
Max Grav 8=272(LC 1), 4=102(LC 1), 5=86(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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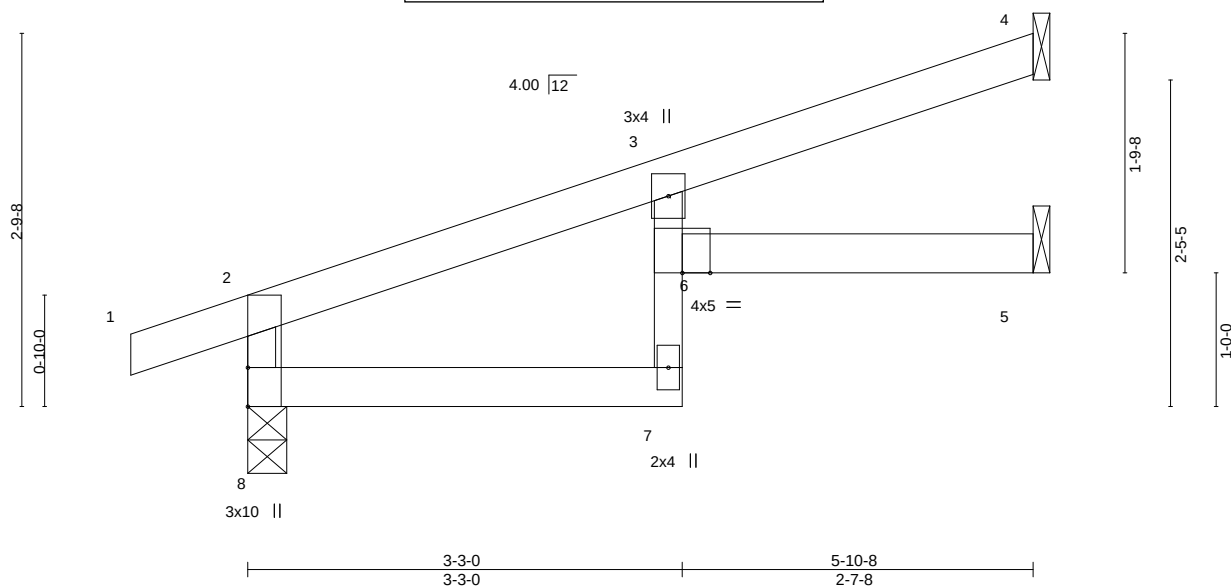
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbT SyOHsj-hhlztkZ8FA47ZzQwmMIRDZM9r33bSKNRq5ZfFYyHE_b 12/16/2020			Lot 32 HT	I43726213
HT 32	J31	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:20 2020 Page 1				
0-10-8 0-10-8			3-3-0 3-3-0		5-10-8 2-7-8		

Scale = 1:17.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.07	6	>994	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.12	7	>562	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.05	6	>999	240	
								Weight: 16 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-7: 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=61(LC 4)
Max Uplift 8=-29(LC 4), 4=-30(LC 8)
Max Grav 8=331(LC 1), 4=160(LC 1), 5=91(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-303/53

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

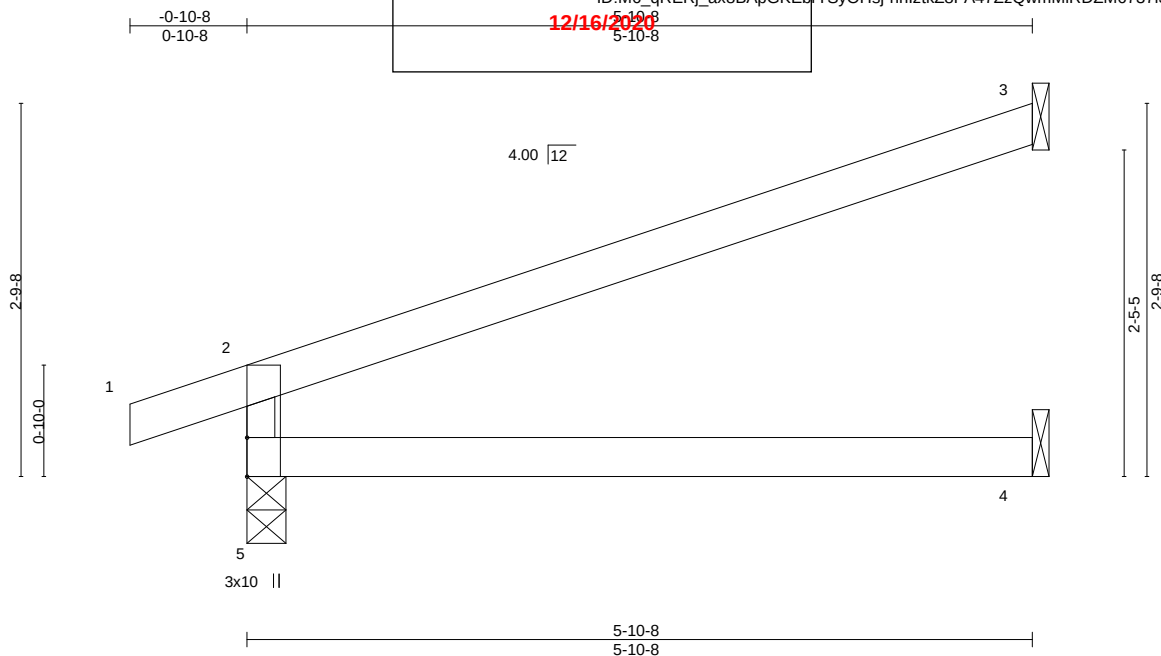
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J32	Jack-Open				I43726214
Wheeler Lumber,		Waverly, KS - 66871,	ID:M6_gRERj_ax8BApGKEbTSyOHSj-hhlztkZ8FA47ZzQwmMIRDZM673iSKNRq5ZfFYyHE_b 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:20 2020 Page 1			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.05	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.11	4-5	>605	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.04	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.03	4-5	>999	240	
								Weight: 15 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

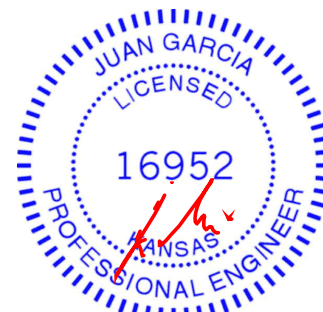
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=61(LC 4)
Max Uplift 5=-29(LC 4), 3=-50(LC 8)
Max Grav 5=331(LC 1), 3=183(LC 1), 4=109(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-285/74

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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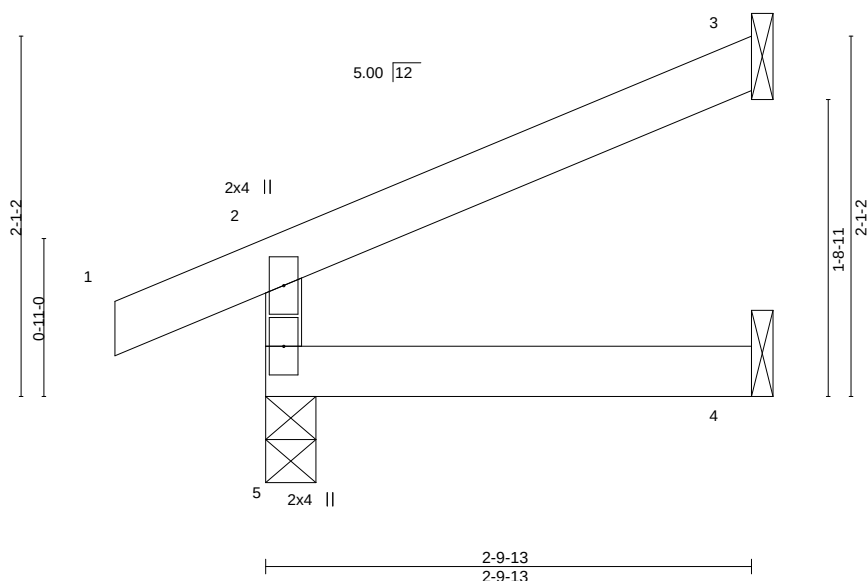
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrTSyOHsj-AtsL54Zn0UC_A7?6K3DgImvOrTXxBnda2lCn?yHE_a 12/16/2020			Lot 32 HT	I43726215
HT 32	J33	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:21 2020 Page 1 2-9-13 2-9-13				



Scale = 1:13.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	Weight: 8 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=53(LC 5)
 Max Uplift 5=-27(LC 8), 3=-46(LC 8)
 Max Grav 5=201(LC 1), 3=79(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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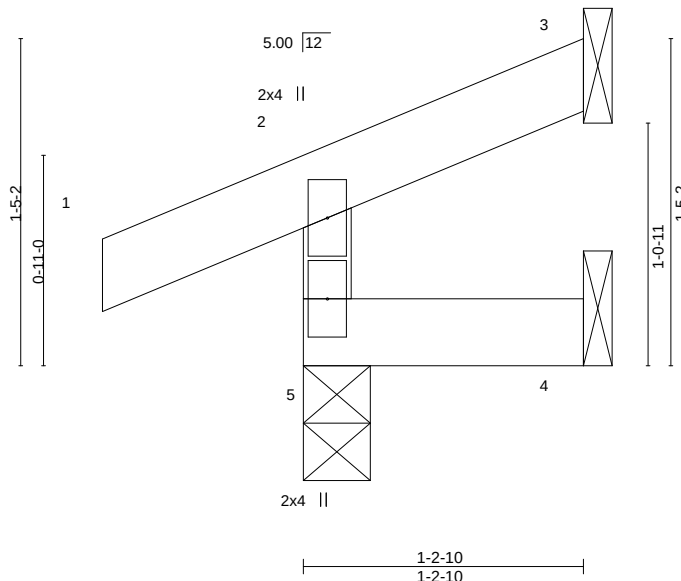


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 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BapGKEbrTSyOHSj-e3QjIqPnoKroHZJtnkvl_RZztwwEtkHP2mKRYHE_Z			Lot 32 HT
HT 32	J34	Jack-Open				I43726216
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:22 2020 Page 1 Job Reference (optional)		

-0-10-8 0-10-8 12/16/2020 1-2-10 1-2-10

Scale = 1:10.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 4 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=35(LC 5)
 Max Uplift 5=32(LC 4), 3=17(LC 8), 4=2(LC 5)
 Max Grav 5=149(LC 1), 3=12(LC 1), 4=20(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

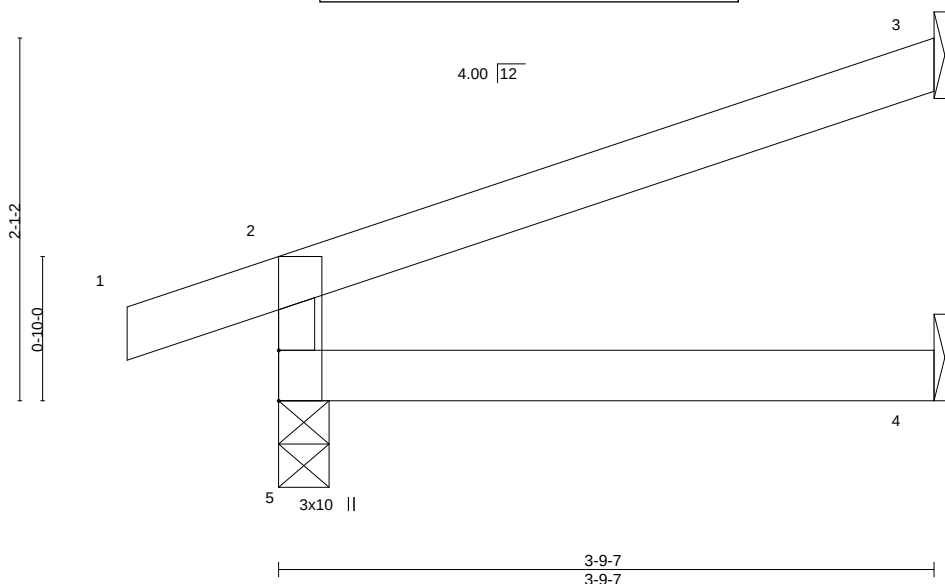
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	J35	Jack-Open			1	I43726217
Wheeler Lumber, Waverly, KS - 66871,		ID:M6_qRERj_ax8BApGKEbrTSyOHsj-e3QjIaPnoKroHZJnkvI_RY0tsHwEtKHP2mKRyHE_Z 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:22 2020 Page 1 3-9-7 3-9-7				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.01	4-5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	Weight: 10 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=58(LC 4)
 Max Uplift 5=60(LC 4), 3=-56(LC 8)
 Max Grav 5=241(LC 1), 3=113(LC 1), 4=69(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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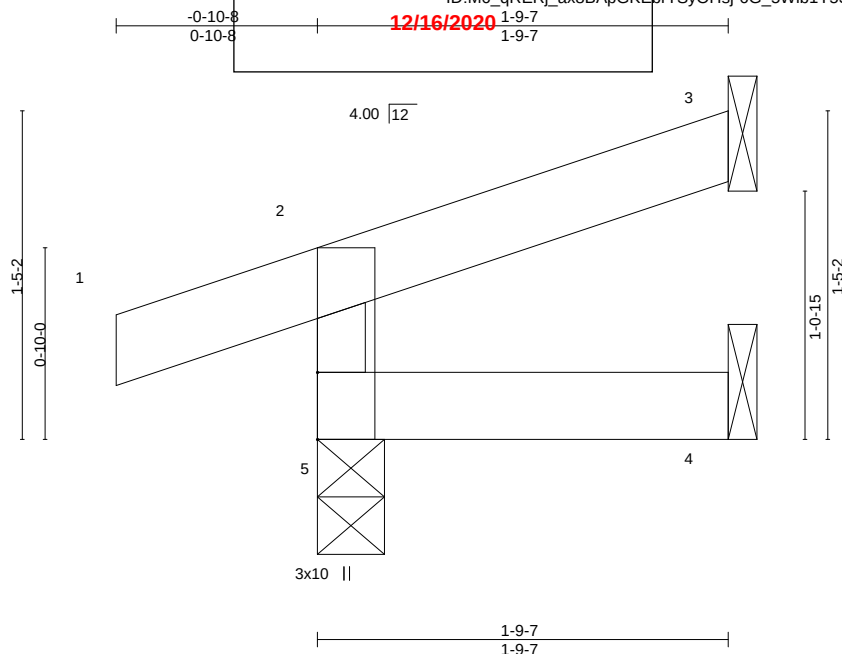
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Ply	Lot 32 HT	I43726218
HT 32	J36	Jack-Open				1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871, ID: M6_qRERj_ax8BApGKEbrTSyOHsj-6G_5Wib1Y5SiQR8VRUF8rB_lkHD0fh6tW3nJstyHE_Y 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:23 2020 Page 1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

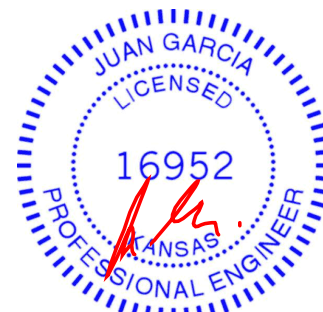
TOP CHORD Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=35(LC 5)
Max Uplift 5=-53(LC 4), 3=-25(LC 8)
Max Grav 5=164(LC 1), 3=41(LC 1), 4=31(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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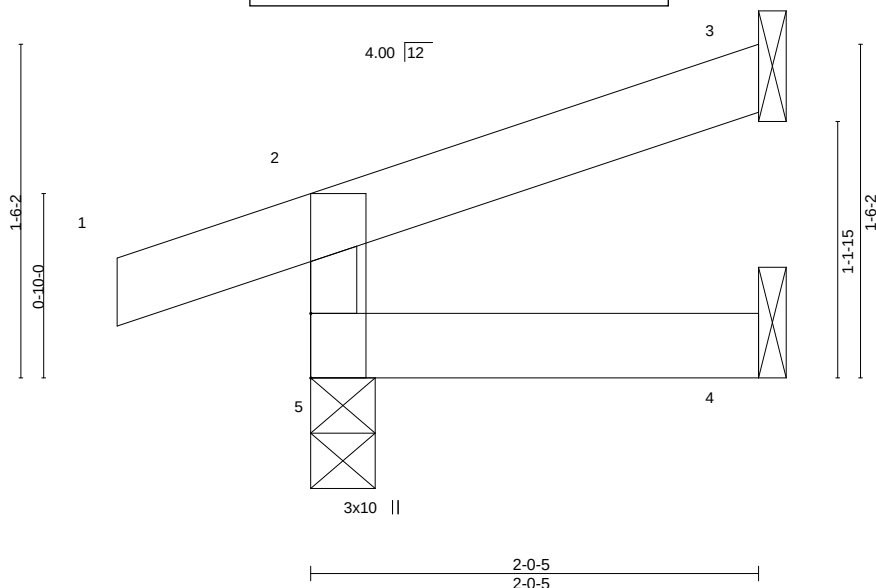
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Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726219
HT 32	J37	Jack-Open	1	1		Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:23 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-6G_5Wlb1Y5SiQR8VRUF8rB_lkHDwf6tW3nJstyHE_Y				
			-0-10-8 0-10-8 2-0-5 2-0-5				

Scale = 1:10.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=37(LC 5)
Max Uplift 5=-54(LC 4), 3=-28(LC 8)
Max Grav 5=170(LC 1), 3=49(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

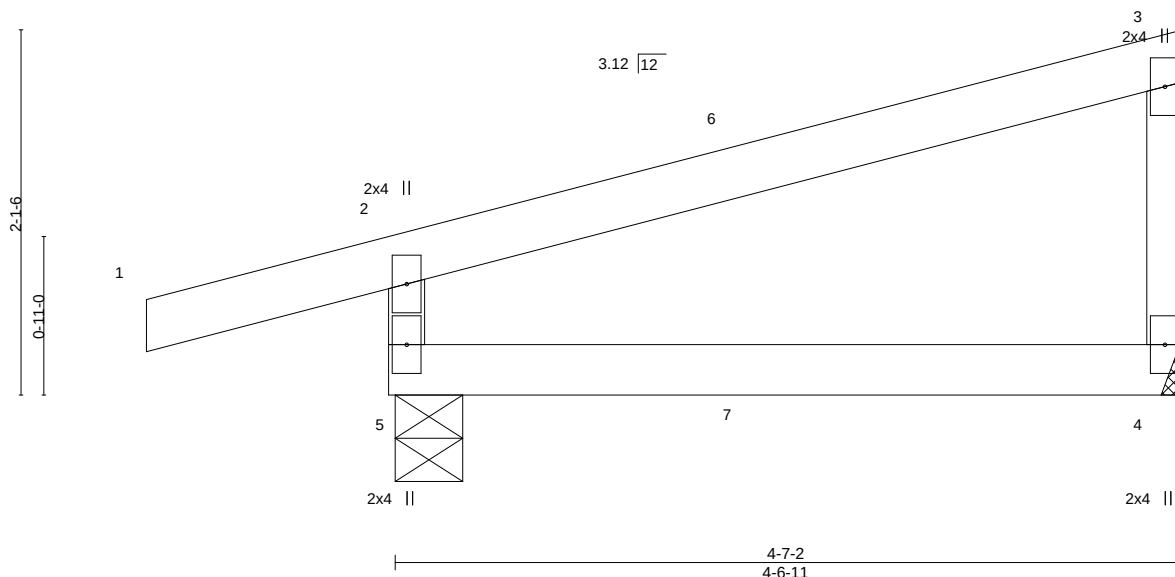
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	J38	Diagonal Hip	Girder	8.420 s	1	I43726220
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) ID: M6_qRERj_ax8BApGKEbrTSyOHSj-aSYTj5cfJPaZ2bjh?CmNNPXtchX_O8M1liXtOKyHE_X Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:24 2020 Page 1				



Scale = 1:13.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240		
									Weight: 14 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-11, 4=Mechanical
 Max Horz 5=82(LC 22)
 Max Uplift 5=-109(LC 4), 4=-41(LC 8)
 Max Grav 5=320(LC 1), 4=178(LC 1)

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

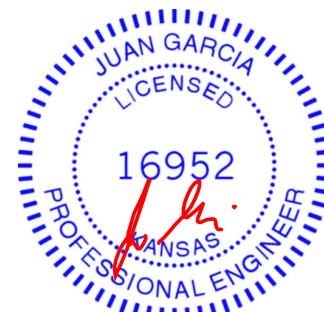
TOP CHORD 2-5=-282/135

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=109.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 18 lb up at 2-1-6, and 75 lb down and 34 lb up at 2-3-6 on top chord, and 4 lb down and 8 lb up at 2-1-6, and 2 lb down and 0 lb up at 2-3-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=2(F=0, B=2)



November 23, 2020

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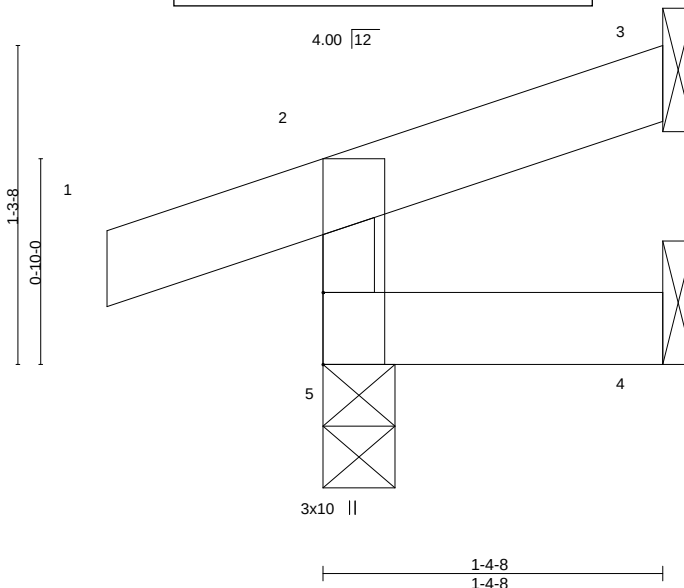
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726221
HT 32	J39	Jack-Open	1	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:25 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTsyOHsj-2e6swRdH4jiQfkluzvHcwc35E4ve7acAzMGQwmyHE_W				
			-0-10-8 0-10-8 12/16/2020 1-4-8 1-4-8				

Scale = 1:9.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00 5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 5	>999	240	Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=31(LC 5)
Max Uplift 5=-54(LC 4), 3=-17(LC 8)
Max Grav 5=152(LC 1), 3=21(LC 1), 4=23(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



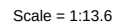
November 23, 2020

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Chesterfield, MO 63017



Weight: 11 lb FT = 10%

TOP CHORD	Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

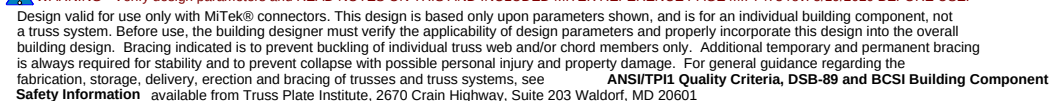
(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=60(LC 4)
Max Uplift 5=-61(LC 4), 3=-58(LC 8)
Max Grav 5=247(LC 1), 3=118(LC 1), 4=72(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	J42	Diagonal Hip Girder			1	I43726223
Wheeler Lumber, Waverly, KS - 66871,		ID:M6_qRERj_ax8BApGKEbTSyOHSj-WqgE8ndvr0qHHut46dprSqC99UAGS1sJC00zTCyHE_V 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:26 2020 Page 1				
1-2-14 1-2-14		6-1-7 6-1-7				

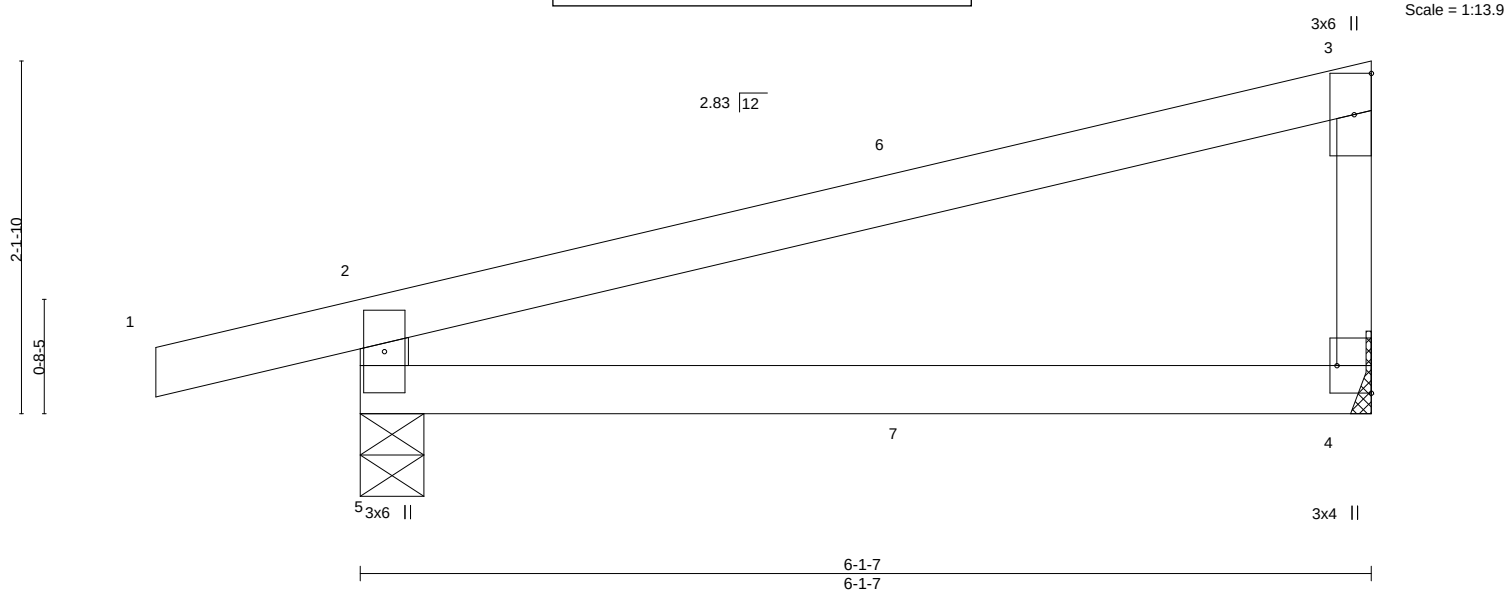


Plate Offsets (X,Y)--		[4:Edge,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50
TCDL 10.0	Lumber DOL	1.15	BC 0.31
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.05 4-5 >999 360
			Vert(CT) -0.10 4-5 >741 240
			Horz(CT) 0.00 4 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 17 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 3-4: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-10, 4=Mechanical
 Max Horz 5=82(LC 22)
 Max Uplift 5=-110(LC 4), 4=-51(LC 8)
 Max Grav 5=373(LC 1), 4=253(LC 1)

FORCES.

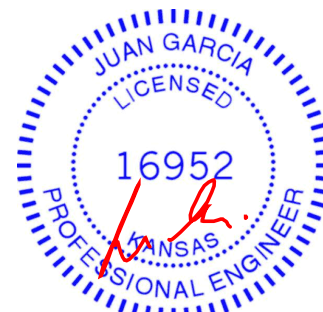
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-328/152

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 39 lb up at 3-4-9, and 69 lb down and 39 lb up at 3-4-9 on top chord, and 5 lb down at 3-4-9, and 5 lb down at 3-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=-1(F=-1, B=-1)



November 23,2020

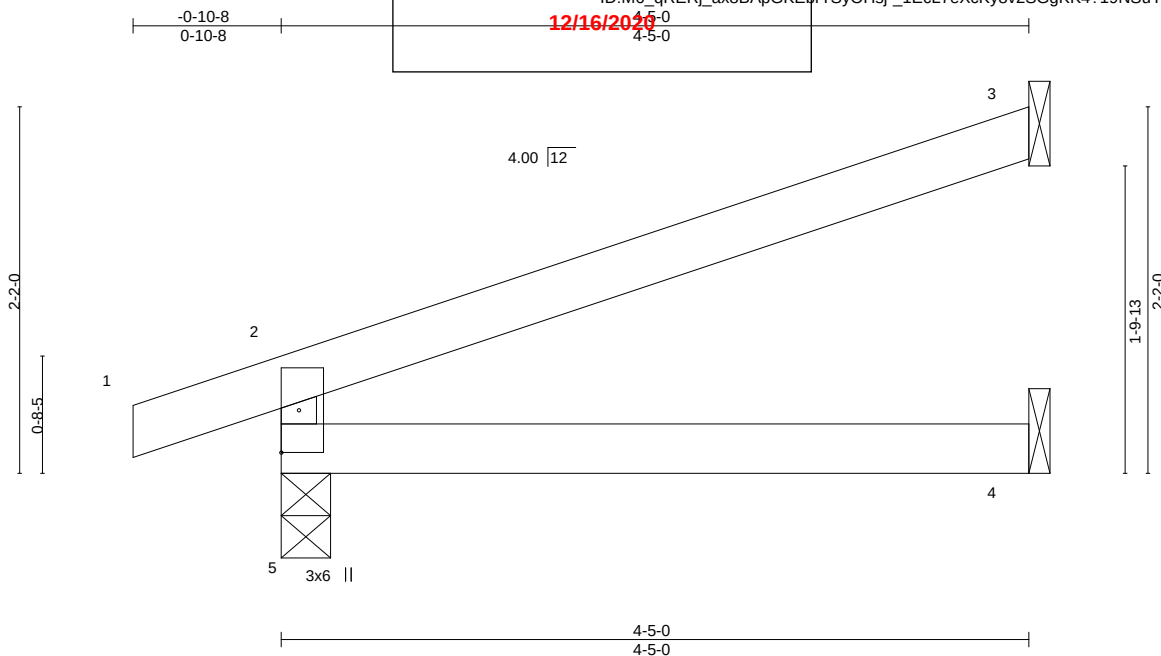
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT	I43726224
HT 32	J44	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:27 2020 Page 1 ID:M6_gRERj_ax8BApGKEbrTSyOHsj-_1Ecl7eXcKy8v2SGgKK4?19NSuYibU6TRglX?fyHE_U				



Scale = 1:13.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.02	4-5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	
								Weight: 12 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=68(LC 4)
Max Uplift 5=-66(LC 4), 3=-64(LC 8)
Max Grav 5=268(LC 1), 3=134(LC 1), 4=81(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

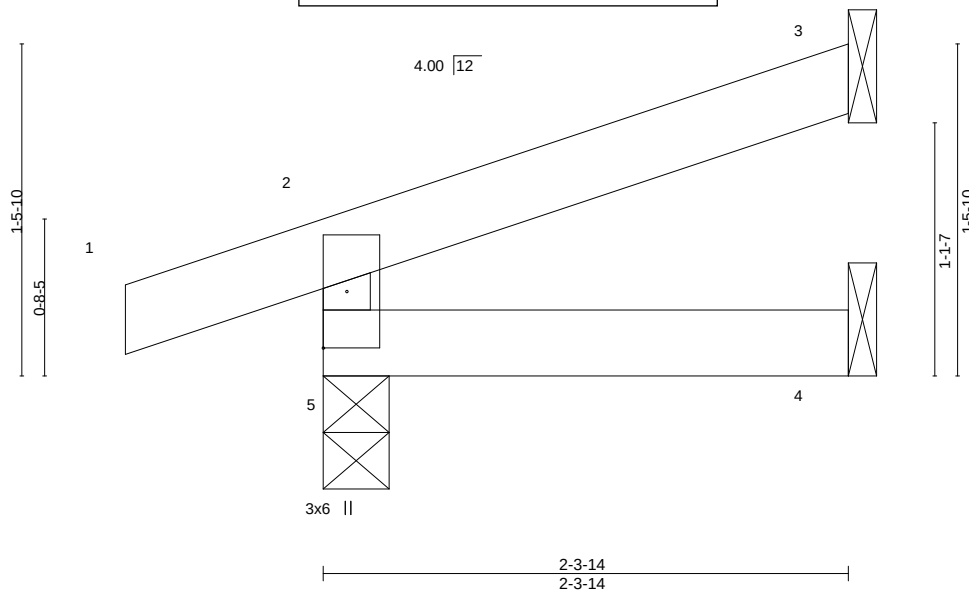
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J45	Jack-Open	4	Ply	1	I43726225
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional)				
ID:M6_gRERj_ax8BApGKEbrtSyOHsj_1EcL7eXcKy8v2SGgKK4?19RjuaibU6TRglX?fyHE_U 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:27 2020 Page 1						
		-0-10-8 0-10-8	2-3-14 2-3-14			



Scale = 1:10.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=40(LC 4)
Max Uplift 5=-57(LC 4), 3=-32(LC 8)
Max Grav 5=181(LC 1), 3=60(LC 1), 4=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

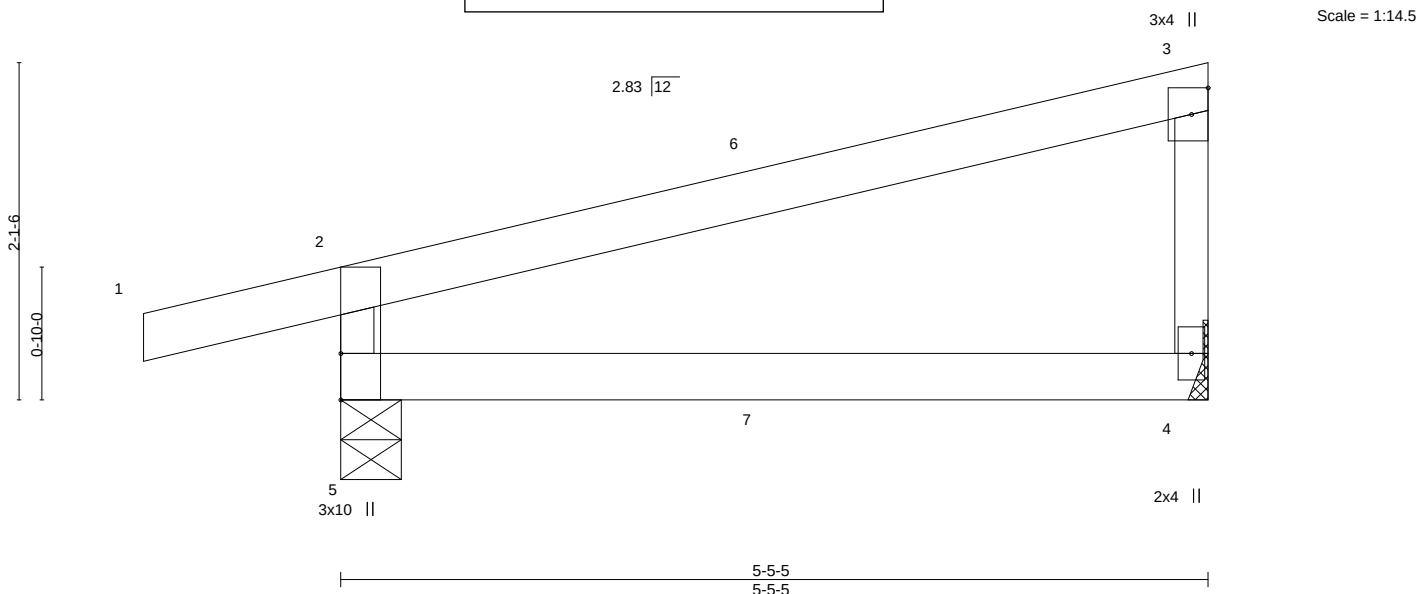
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 32 HT
HT 32	J46	Diagonal Hip	Girder	Ply	1	I43726226
Wheeler Lumber,		Waverly, KS - 66871,		Job Reference (optional)		
		-1-2-14 1-2-14		8,420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:28 2020 Page 1 ID:M6_qRERj_ax8BApGKEbrT SyOHsj-SDn_ZTfANe4?WC1SE2rJXfHWNltKxMcKfKV4X5yHE_T 12/16/2020 5-5-5 5-5-5		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.03 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.06 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-4-9, 4=Mechanical
 Max Horz 5=81(LC 5)
 Max Uplift 5=-103(LC 4), 4=-46(LC 8)
 Max Grav 5=341(LC 1), 4=223(LC 1)

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

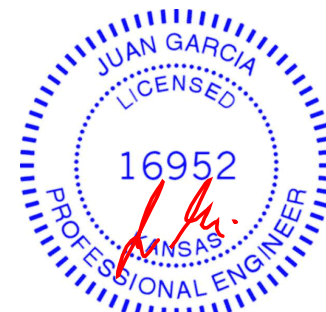
TOP CHORD 2-5=-298/139

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 30 lb up at 2-8-7, and 67 lb down and 30 lb up at 2-8-7 on top chord, and 3 lb down and 1 lb up at 2-8-7, and 3 lb down and 1 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=1(F=1, B=1)



November 23, 2020

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

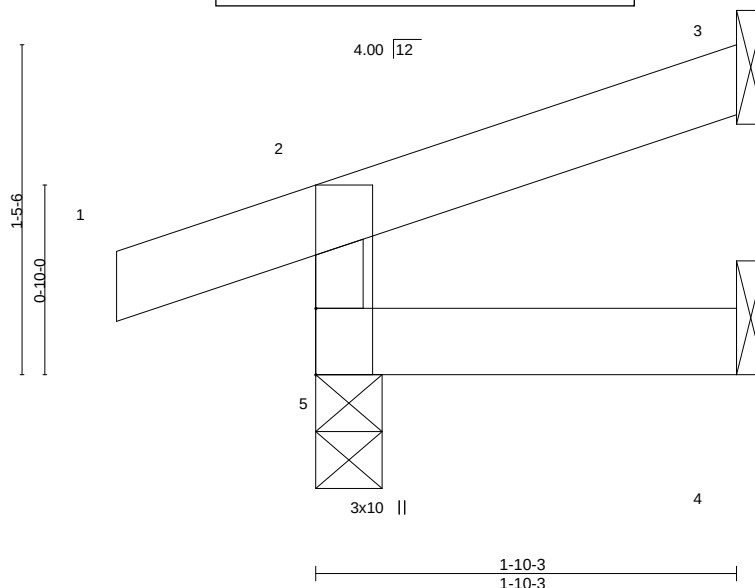
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726227
HT 32	J47	Jack-Open	4	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:29 2020 Page 1					
		ID:M6_qRERj_ax8BapGKEbrTsyOHSj-xPLMmpgo8xDr8McfolMY4SEnDiGO3Obmu_Ee4XyHE_S					
		-0-10-8 0-10-8		1-10-3 1-10-3			

Scale = 1:10.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00 5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00 5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=36(LC 5)
 Max Uplift 5=-53(LC 4), 3=-26(LC 8)
 Max Grav 5=166(LC 1), 3=43(LC 1), 4=33(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

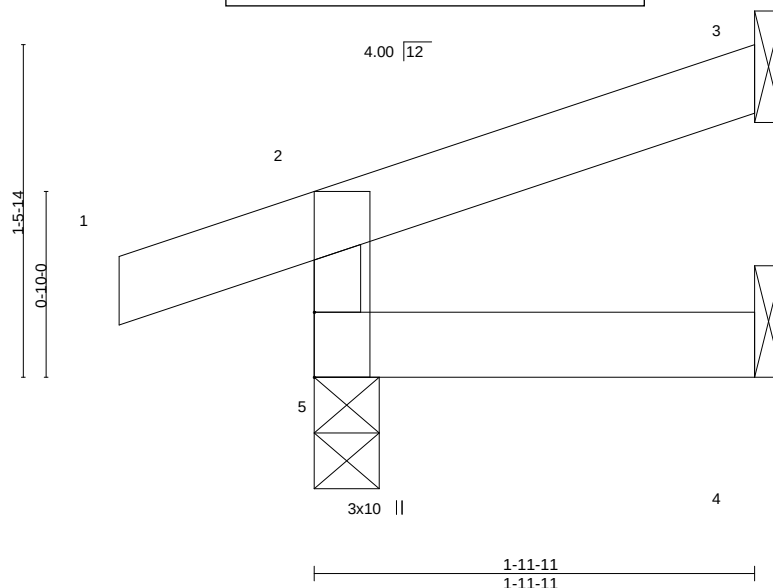
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrTSyOHsj-xPLMmpgo8xDr8McfolMY4SEnDiGK3Obmu_Ee4XyHE_S 12/16/2020			Lot 32 HT	I43726228
HT 32	J48	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:29 2020 Page 1				
			-0-10-8 0-10-8 1-11-11 1-11-11				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=37(LC 5)
Max Uplift 5=-54(LC 4), 3=-28(LC 8)
Max Grav 5=170(LC 1), 3=49(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

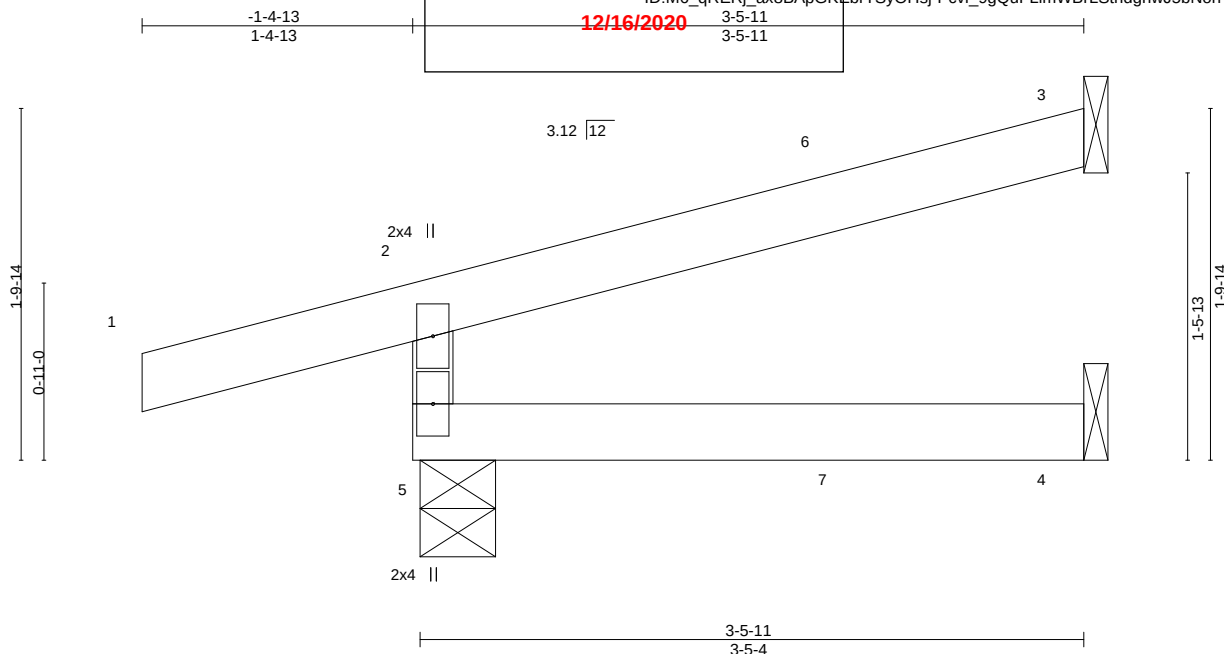
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrTSyOHSj-Pcvl_9gQuFLimWBrLSndgnwJ5bNorr7e_BczyHE_R 12/16/2020			Ply	Lot 32 HT	I43726229
HT 32	J49	Diagonal Hip Girder				1		
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:30 2020 Page 1						



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.01 4-5	>999	360	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 3=Mechanical, 4=Mechanical
Max Horz 5=46(LC 4)
Max Uplift 5=93(LC 4), 3=-45(LC 8)
Max Grav 5=278(LC 1), 3=93(LC 1), 4=62(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 33 lb up at 2-3-5 on top chord, and 3 lb down and 0 lb up at 2-3-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 7=0(B)



November 23, 2020

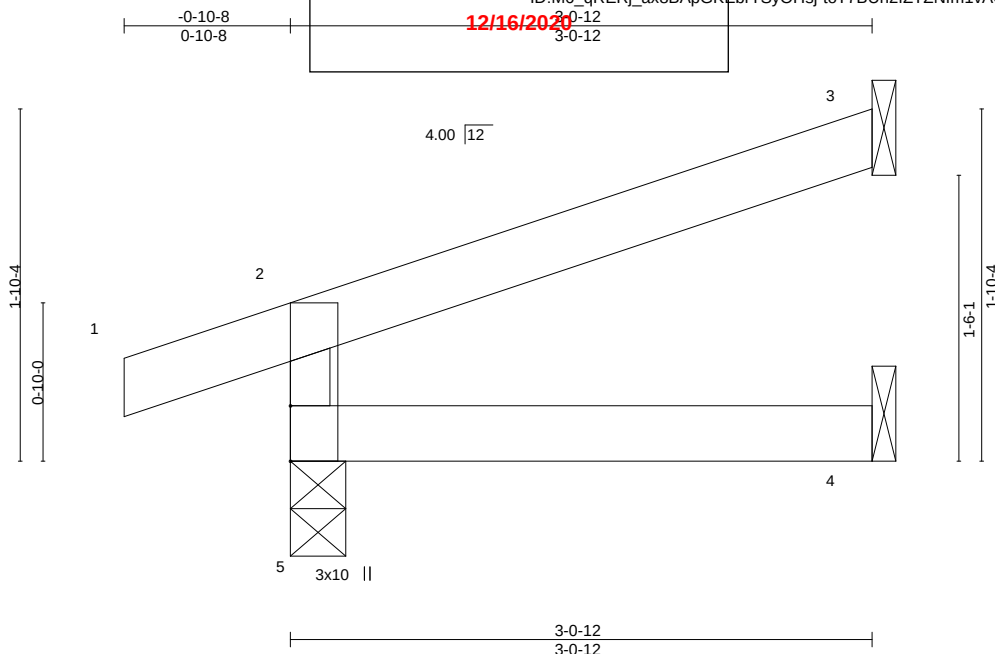
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	J50	Jack-Open				I43726230
Wheeler Lumber, Waverly, KS - 66871,			ID:M6_gRERj_ax8BApGKEbrTSyOhsj-toT7BUh2fZTNfm1vAO09tJ6_Vx5XI52Mijk8QyHE_Q 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:31 2020 Page 1			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	4-5	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240	
								Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

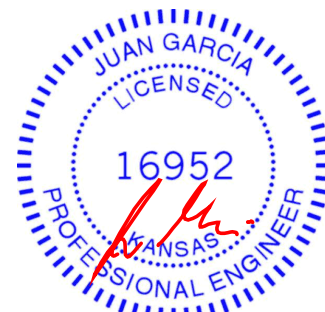
TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=48(LC 4)
Max Uplift 5=-57(LC 4), 3=-45(LC 8)
Max Grav 5=210(LC 1), 3=88(LC 1), 4=55(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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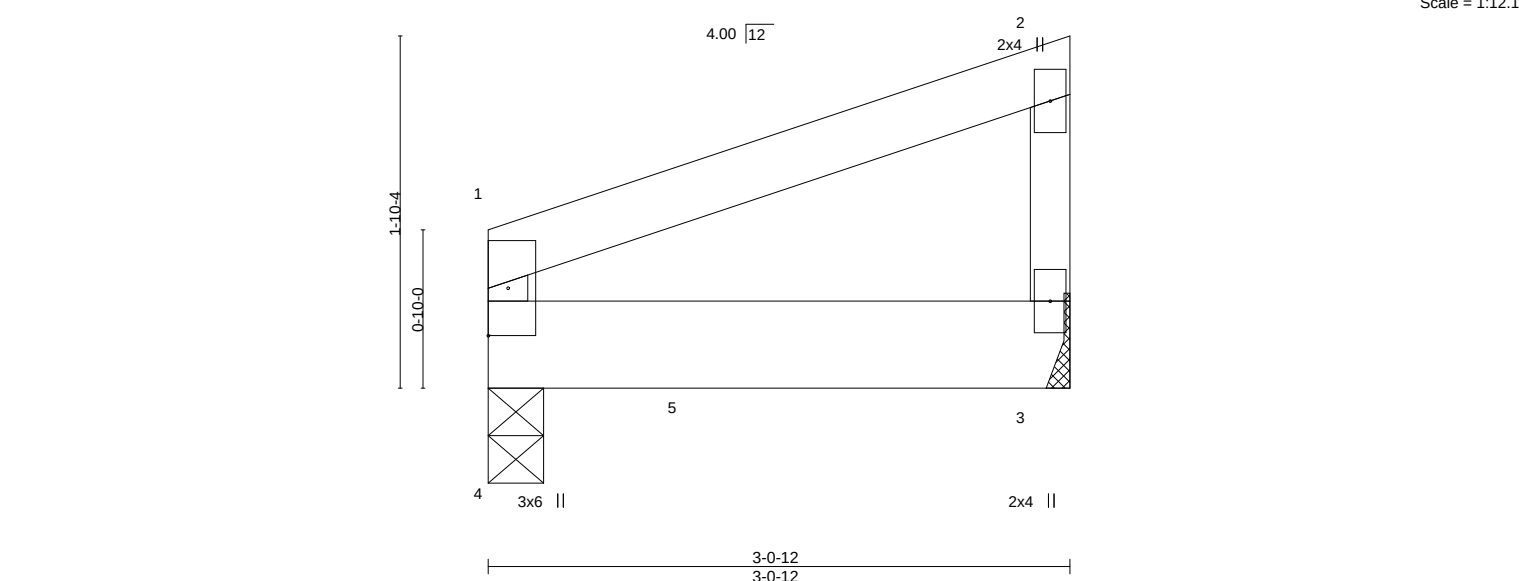


16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

Job HT 32	Truss J51	Truss Type Jack-Closed Girder	Ply 1	Lot 32 HT Job Reference (optional)
Wheeler Lumber, Waverly, KS - 66871,		ID: M6_qRERj_ax8BApGKEbrTSyOHsj-L_1VOqigQsbQ?pkETivFi5sGHvDSGLCayTlgsyHE_P 12/18/2020		

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:32 2020 Page 1
 Scale = 1:12.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.01	3-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.01	3-4	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	3-4	>999	240	
									Weight: 10 lb FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

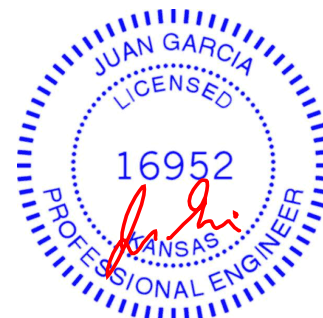
REACTIONS. (size) 4=0-3-8, 3=Mechanical
 Max Horz 4=61(LC 5)
 Max Uplift 4=-68(LC 4), 3=-56(LC 8)
 Max Grav 4=442(LC 1), 3=303(LC 1)

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

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 488 lb down and 83 lb up at 1-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

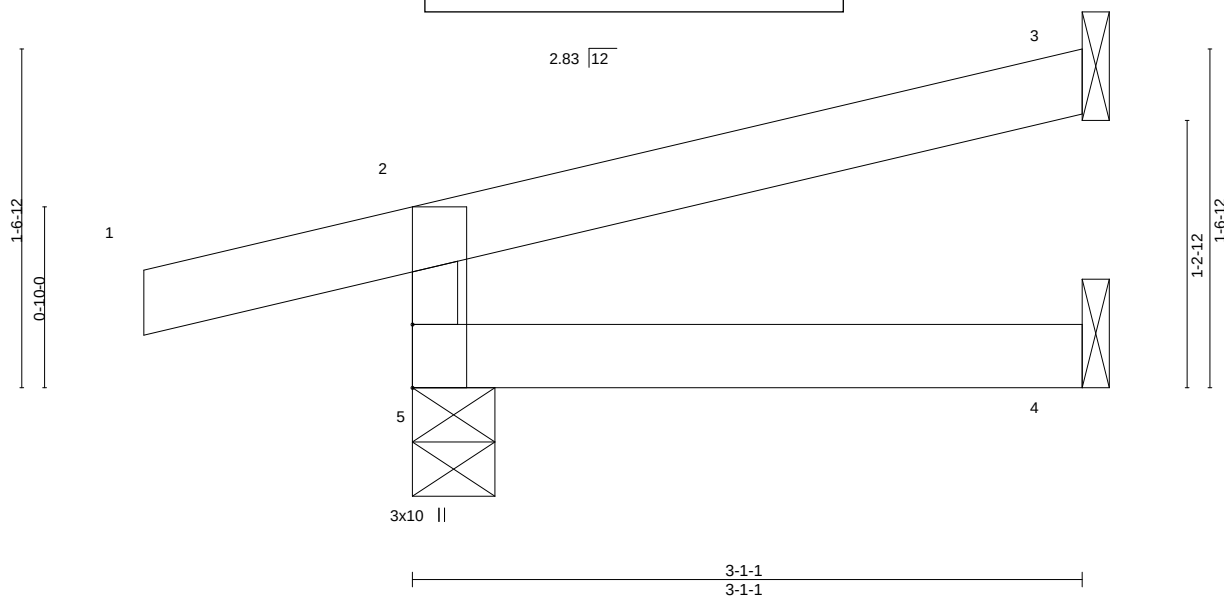
LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 3-4=-20
 Concentrated Loads (lb)
 Vert: 5=-488(B)



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Ply	Lot 32 HT	I43726232
HT 32	J52	Diagonal Hip Girder				1		
Wheeler Lumber, Waverly, KS - 66871,		8.420 s		Job Reference (optional)				
		-1-2-14 1-2-14		ID:M6_qRERj_ax8BApGKEbrTSyOHSj-L_1VOqigQsbQ?pkETvF5sHjvleGILCayTlgsyHE_P				
				Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:32 2020 Page 1				



Scale = 1:10.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00 4-5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00 4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=42(LC 7)
Max Uplift 5=98(LC 6), 3=-47(LC 12), 4=-1(LC 19)
Max Grav 5=104(LC 1), 3=38(LC 1), 4=41(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 8 lb up at -1-2-14, and 22 lb down and 8 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-35(F=-17, B=-17)
Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 2=-2(F=34, B=34)-to-3=-54(F=8, B=8), 5=-0(F=10, B=10)-to-4=-15(F=2, B=2)



November 23, 2020

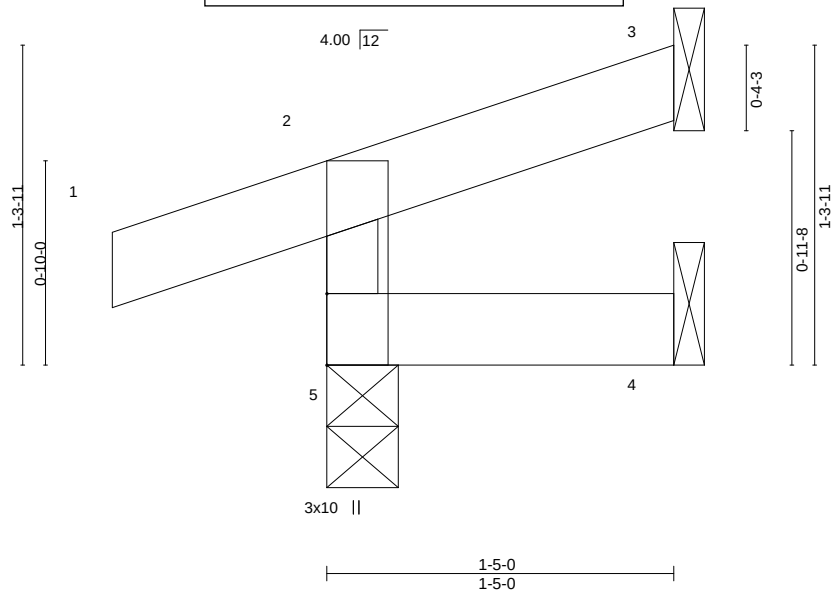
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT	I43726233
HT 32	J53	Jack-Open		Ply	1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		ID:M6_qRERj_ax8BApGKEbrTSyOHsj-pBbtCAjIBAjHdzvQ1bRUEIPTCJdV?CbLpcCrDlyHE_O			
		-0-10-8 0-10-8		1-5-0 1-5-0		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:33 2020 Page 1	
		12/16/2020					



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	Weight: 5 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

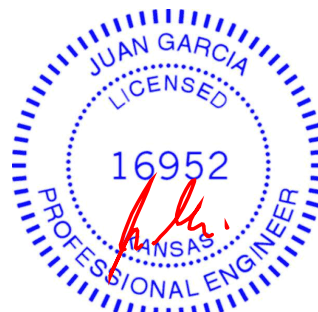
TOP CHORD Structural wood sheathing directly applied or 1-5-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=31(LC 5)
 Max Uplift 5=-54(LC 4), 3=-18(LC 8)
 Max Grav 5=153(LC 1), 3=23(LC 1), 4=24(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

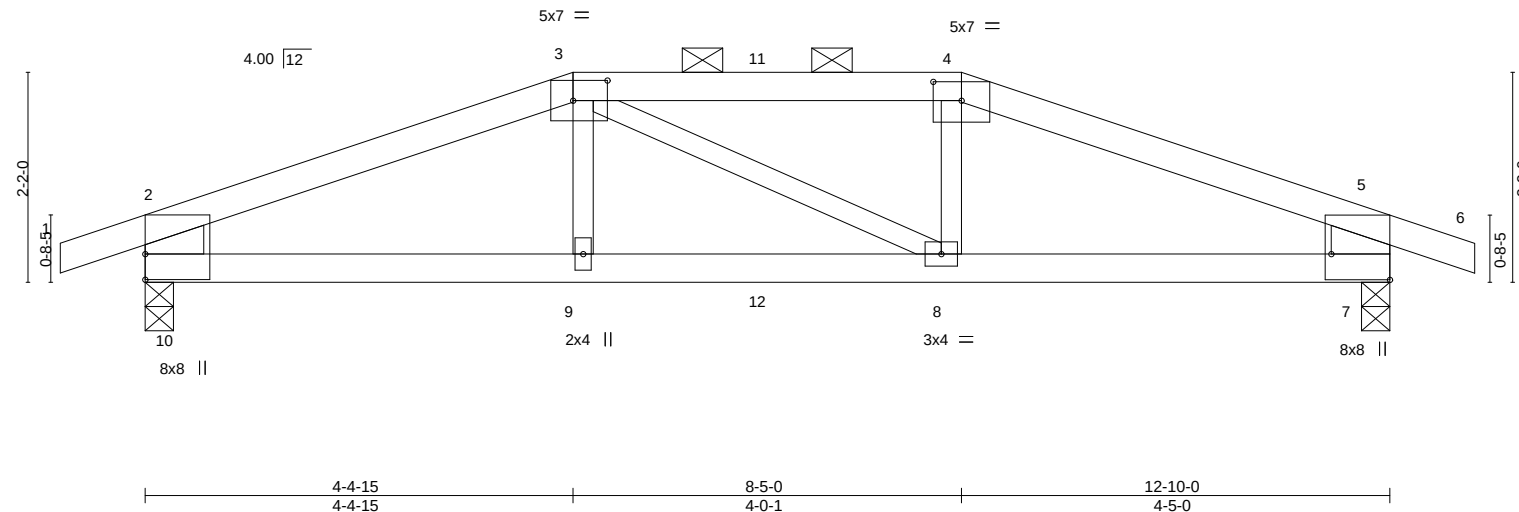
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	K1	Hip Girder			1	143726234
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)			
			Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:37 2020 Page 1			
			ID: M6_qRERj_ax8BApGKEbrTSyOHSj-iyqOSYmpFPDj5aDBGRVQP8Z_Rwsax?0xkEA3M3yHE_K			
			12-16-2020			
			Scale = 1:23.8			



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.12	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.21				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.10	Weight: 40 lb		FT = 10%	

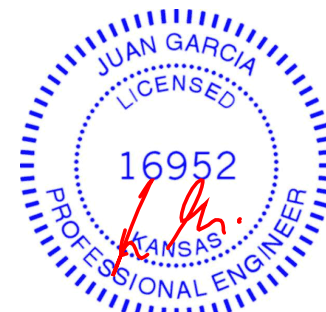
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except*	TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-8 max.): 3-4.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*		
	2-10,5-7: 2x8 SP 2400F 2.0E		

REACTIONS.	
(size)	10=0-3-8, 7=0-3-8
Max Horz	10=-14(LC 9)
Max Uplift	10=-246(LC 4), 7=-246(LC 5)
Max Grav	10=998(LC 1), 7=998(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1702/373, 3-4=-1546/363, 4-5=-1702/372, 2-10=-870/251, 5-7=-870/251
BOT CHORD	9-10=-308/1531, 8-9=-307/1546, 7-8=-296/1532
WEBS	3-9=0/290, 4-8=0/293

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=246, 7=246.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 72 lb up at 4-4-15, and 89 lb down and 72 lb up at 6-4-15, and 89 lb down and 72 lb up at 8-5-0 on top chord, and 255 lb down and 74 lb up at 4-4-15, and 41 lb down at 6-4-15, and 255 lb down and 74 lb up at 8-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

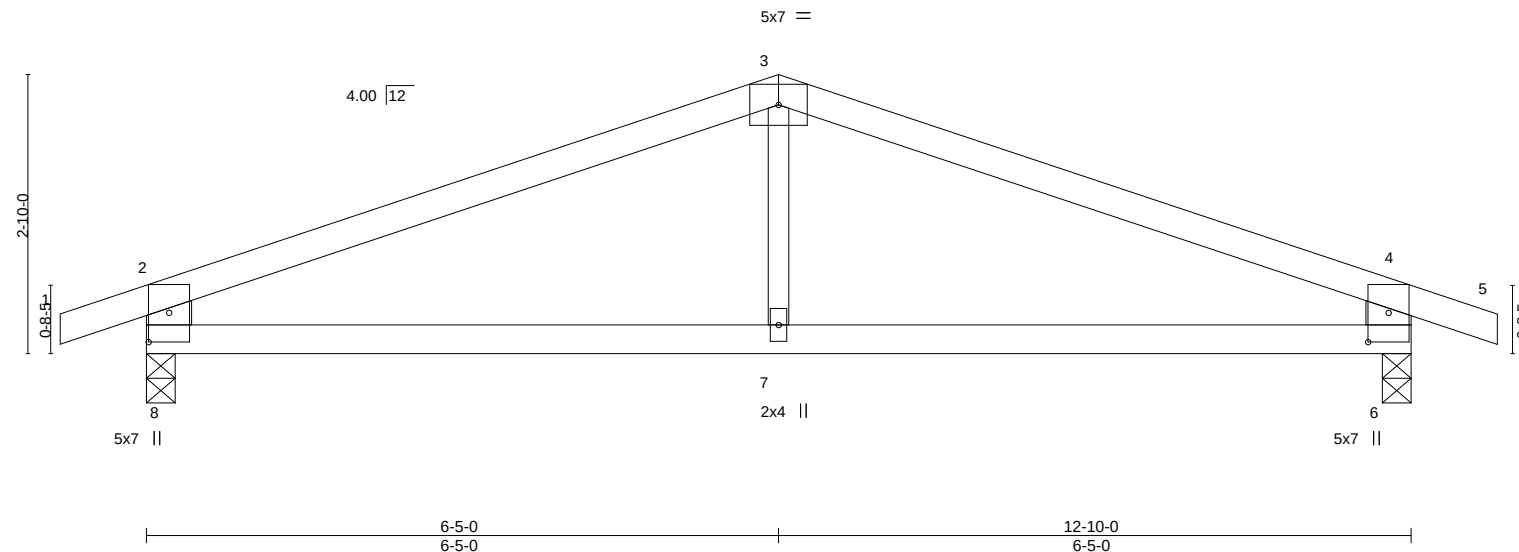
LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	K1	Hip Girder		1		I43726234
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:37 2020 Page 2			
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-iyqOSYmpFPDj5aDBGRVQP8Z_Rwsax?0xE3M3yHE_K			
LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20 Concentrated Loads (lb) Vert: 3=-64(F) 4=-64(F) 9=-255(F) 8=-255(F) 11=-64(F) 12=-30(F)			Job Reference (optional)			

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	K2	Common			1	143726235
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:37 2020 Page 1 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-iyqOSYmpFPDj5aDBGRVQP8Z0Uwxvx?LxkEA3M3yHE_K				
-0-10-8 0-10-8		6-5-0 6-5-0		12-10-0 6-5-0		13-8-8 0-10-8
Scale = 1:23.4						



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.04	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.02	Weight: 35 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x6 SPF No.2 *Except*		
	3-7: 2x3 SPF No.2		

REACTIONS.	
(size)	8=0-3-8, 6=0-3-8
Max Horz	8=-27(LC 13)
Max Uplift	8=-129(LC 4), 6=-129(LC 5)
Max Grav	8=634(LC 1), 6=634(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-835/111, 3-4=-835/110, 2-8=-569/168, 4-6=-569/168
BOT CHORD	7-8=-47/716, 6-7=-47/716
WEBS	3-7=0/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=129, 6=129.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT	143726236
HT 32	K3	Common			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,				8.420 s	Oct 9 2020	MiTek Industries, Inc. Fri Nov 20 16:55:38 2020 Page 1	
				ID:M6_qRERj_ax8BApGKEbrT	SyOHsj-A8OmfunR0iLajkoNp80gxM6BMKG3gSd4zuwcuWyHE_J		
6-5-0		6-5-0		12-10-0		13-8-8	
6-5-0				6-5-0		0-10-8	
Scale = 1:22.4							

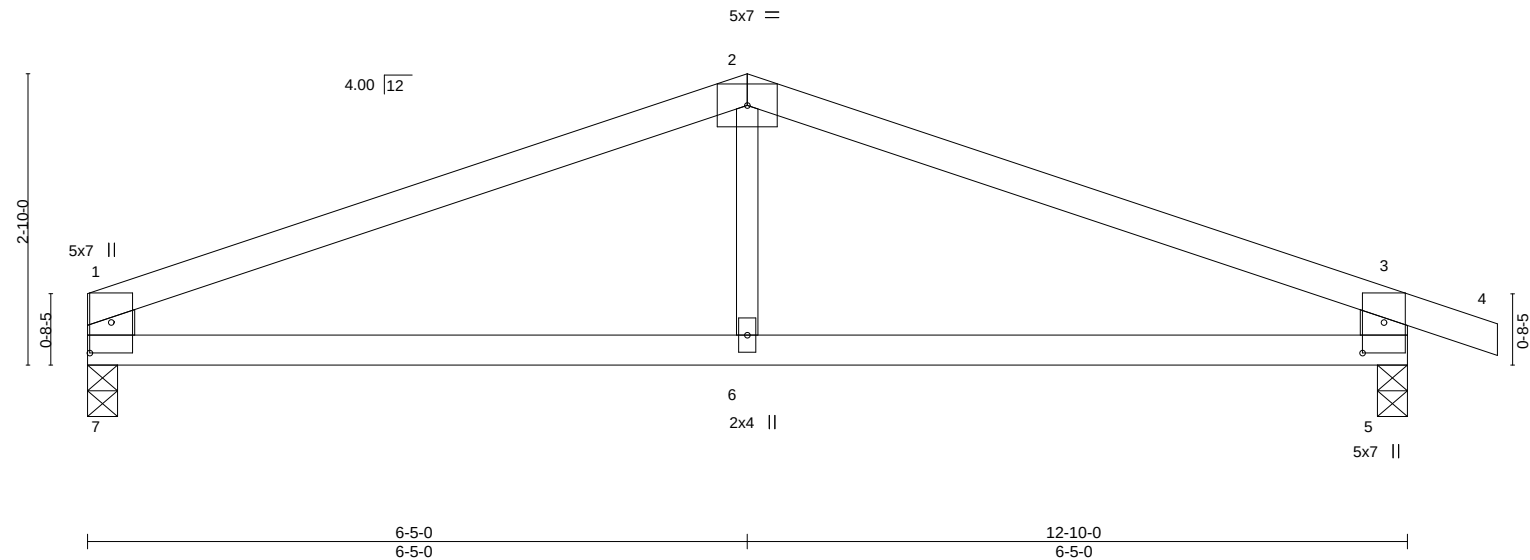


Plate Offsets (X,Y)--		[1:0-3-9,0-2-8], [5:0-3-9,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55
TCDL 10.0	Lumber DOL	1.15	BC 0.37
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.04	5-6	>999
Vert(CT)	-0.09	5-6	>999
Horz(CT)	0.01	5	n/a
Wind(LL)	0.03	5-6	>999
PLATES	GRIP		
MT20	197/144		
Weight: 34 lb		FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except* 2-6: 2x3 SPF No.2	

REACTIONS.	(size) 7=0-3-8, 5=0-3-8
	Max Horz 7=-33(LC 9)
	Max Uplift 7=-81(LC 4), 5=-129(LC 5)
	Max Grav 7=553(LC 1), 5=638(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-834/109, 2-3=-838/114, 1-7=-476/117, 3-5=-568/168
BOT CHORD	6-7=-50/720, 5-6=-50/720

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=129.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

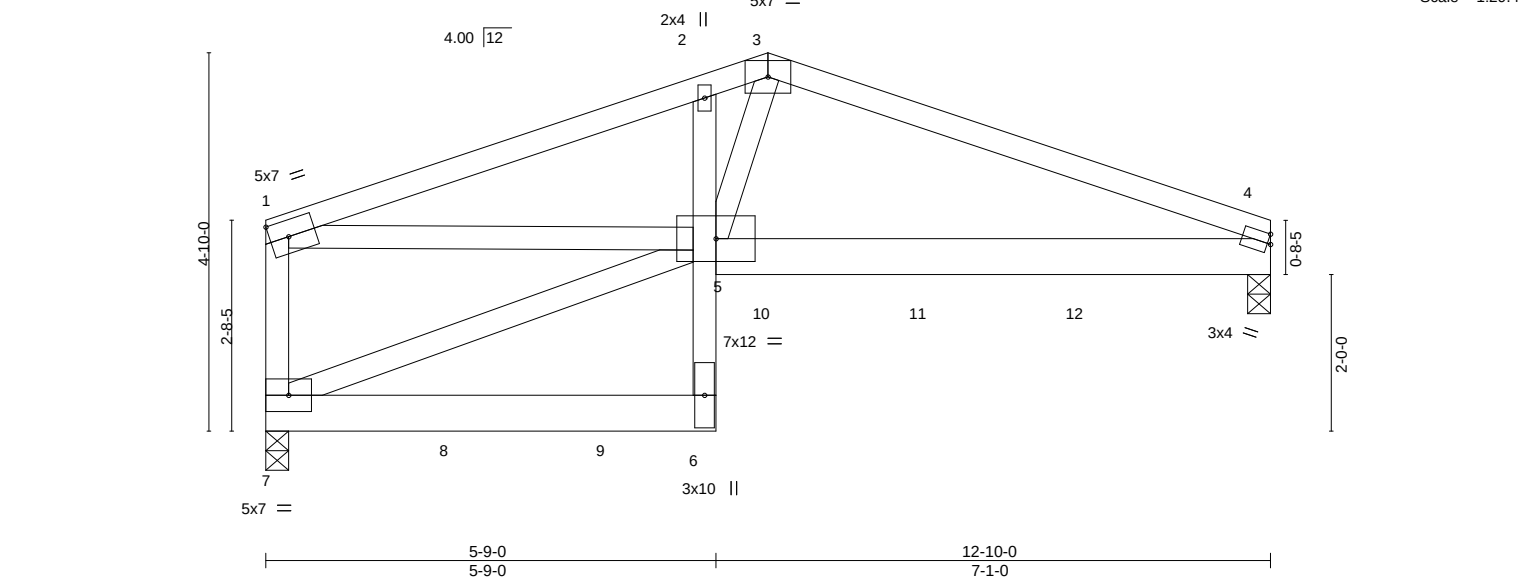


November 23,2020

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 ID: M6_qRERj_ax8BApGKEbrTSyOHsj-eLy8sEn3n0TRLuNaNrXvUZeG8kYoPplEBYf9QyyHE_I
 12/16/2020

Job HT 32	Truss K4	Truss Type Roof Special	Girder	Ply 2	Lot 32 HT Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:39 2020 Page 1 6-5-0 12-10-0 6-5-0
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Wheeler Lumber, Waverly, KS - 66871, 5-9-0 5-9-0 6-5-0 12-10-0 6-5-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.12	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.21	4-5	>707	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.47	Horz(CT)	0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09	4-5	>999	240		
									Weight: 134 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 2-6: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=0-3-8, 7=0-3-8
 Max Horz 7=-46(LC 6)
 Max Uplift 4=-380(LC 5), 7=-314(LC 4)
 Max Grav 4=2657(LC 1), 7=3229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4261/557, 2-3=-4376/617, 3-4=-3717/487, 1-7=-1783/276
 BOT CHORD 5-6=-7/992, 2-5=-283/187, 4-5=-408/3412
 WEBS 3-5=-359/2589, 1-5=-482/3823

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=380, 7=314.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 793 lb down and 54 lb up at 0-1-12, 785 lb down and 50 lb up at 2-5-0, 785 lb down and 38 lb up at 4-5-0, 912 lb down and 165 lb up at 6-5-0, 488 lb down and 112 lb up at 8-5-0, and 510 lb down and 84 lb up at 10-5-0, and 517 lb down and 77 lb up at 12-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Ply	Lot 32 HT
HT 32	K4	Roof Special	Girder			2	I43726237
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:39 2020 Page 2 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-eLy8sEn3n0TRLuNaNrXvUZeG8kYoPplEBYf9QyyHE_I				

LOAD CASE(S) Standard

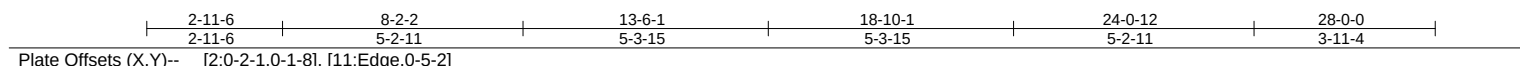
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-70, 3-4=-70, 6-7=-20, 4-5=-20
 - Concentrated Loads (lb)
 - Vert: 4=-501(B) 7=-793(B) 8=-785(B) 9=-785(B) 10=-912(B) 11=-488(B) 12=-494(B)

 **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

Scale = 1:50.1

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-11 max.): 3-8.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	2-18,9-11: 2x3 SPF No.2		
OTHERS	2x3 SPF No.2		

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

TOP CHORD 2-3=-2962/630, 3-4=-6085/1328, 4-5=-6082/1327, 5-7=-6566/1444, 7-8=-6569/1446,
8-9=-3860/843, 2-18=-1878/407, 9-11=-1889/459

BOT CHORD 16-17=-551/2748, 15-16=-1547/7361, 13-15=-1547/7361, 12-13=-773/3648,
11-12=-75/315

WEBS 3-17=-343/144, 3-16=-760/3545, 4-16=-581/258, 5-16=-1360/291, 5-15=0/302,
5-13=-857/172, 7-13=-592/260, 8-13=-660/3118, 2-17=-547/2684, 9-12=-697/3358

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=404, 11=451.
- 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.

A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "JUAN GARCIA" and the license number "NUMBER E-2000162101". There are decorative horizontal lines above and below the central text.

November 23, 2020

Continued on page 2

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020		Ply	Lot 32 HT
HT 32	L1	HIP GIRDER			2	I43726238

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:42 2020 Page 2

ID:M6_qRERj_ax8BApGKEbrTSyOHsj-2veHVFqy4xr?CM592_5c6CGqixbLcB1gtWuq1HyHE_F

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 67 lb up at 3-6-4, 82 lb down and 67 lb up at 5-6-4, 82 lb down and 67 lb up at 7-6-4, 82 lb down and 67 lb up at 9-6-4, 82 lb down and 67 lb up at 11-6-4, 82 lb down and 67 lb up at 13-6-4, 82 lb down and 67 lb up at 15-6-4, 82 lb down and 67 lb up at 17-6-4, 82 lb down and 67 lb up at 19-6-4, 82 lb down and 67 lb up at 21-6-4, and 82 lb down and 67 lb up at 23-6-4, and 82 lb down and 67 lb up at 24-0-12 on top chord, and 153 lb down and 67 lb up at 2-11-6, 32 lb down at 3-6-4, 32 lb down at 5-6-4, 32 lb down at 7-6-4, 32 lb down at 9-6-4, 32 lb down at 11-6-4, 32 lb down at 13-6-4, 32 lb down at 15-6-4, 32 lb down at 17-6-4, 32 lb down at 19-6-4, 32 lb down at 21-6-4, and 32 lb down at 23-6-4, and 217 lb down and 72 lb up at 24-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 11-18=-20

Concentrated Loads (lb)

Vert: 17=-153(F) 5=-48(F) 15=-23(F) 8=-48(F) 12=-217(F) 19=-48(F) 20=-48(F) 21=-48(F) 22=-48(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-23(F) 30=-23(F) 31=-23(F) 32=-23(F) 33=-23(F) 34=-23(F) 35=-23(F) 36=-23(F) 37=-23(F) 38=-23(F)

Job: HT 32

Truss: L2

Truss Type: Half Hip

Wheeler Lumber, Waverly, KS - 66871,

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

Ply: 1

Lot 32 HT

Job Reference (optional)

0-10-8 | 4-6-10 | 11-4-4 | 18-4-6

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

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:43 2020 Page 1

ID:M6_qRERj_ax8BApGK EbrTSyOHSj-W6BfibqarEzspVgLchcrePpy?LrVLbBq6AdNZjyHE_E

12/16/2020

Scale = 1:32.9

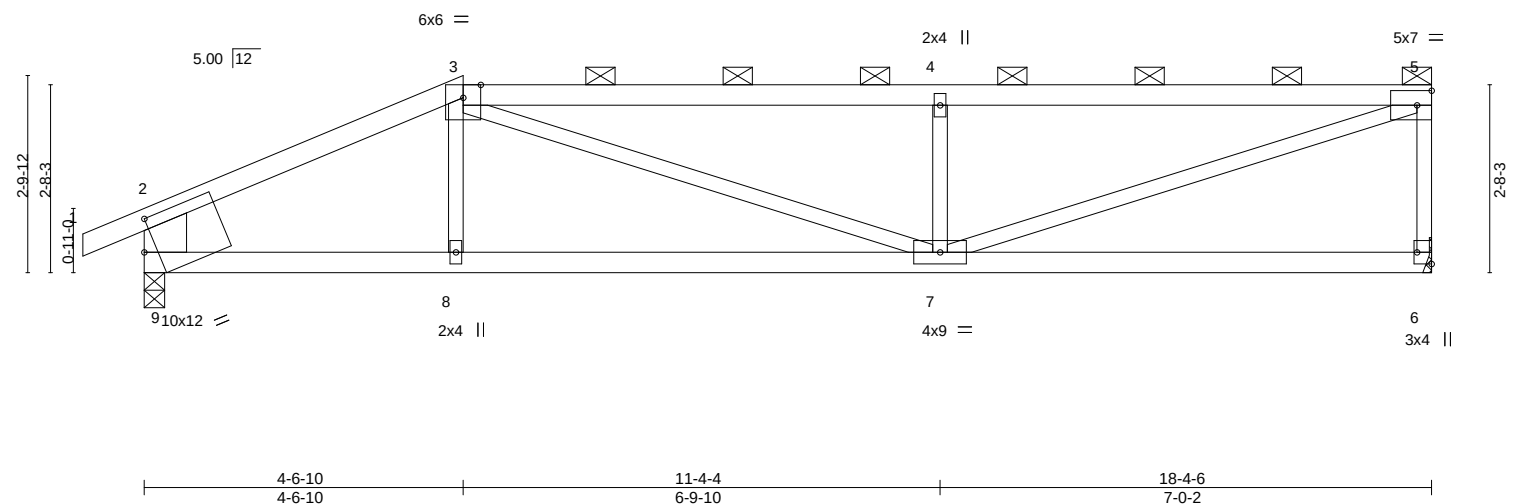


Plate Offsets (X,Y)--		[6:Edge,0-2-8], [9:0-2-3,0-5-5]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.16	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.33	7-8	>662	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09	7-8	>999	240	Weight: 62 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-4 max.): 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 *Except* 2-9: 2x8 SP DSS		

REACTIONS.	
(size)	6=Mechanical, 9=0-3-8
Max Horz	9=85(LC 5)
Max Uplift	6=-41(LC 5), 9=-38(LC 4)
Max Grav	6=805(LC 1), 9=893(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1223/37, 3-4=-1619/90, 4-5=-1616/89, 5-6=-744/74, 2-9=-770/55
BOT CHORD	8-9=-72/1042, 7-8=-75/1041
WEBS	3-7=-46/681, 4-7=-584/133, 5-7=-87/1656

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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, 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	L3	Roof Special	1		1	I43726240
Wheeler Lumber, Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:44 2020 Page 1				
0-10-8		5-5-6		11-2-8		ID:M6_qRERj_ax8BApGKEbrTSyOHSj_II1wxrCbY5jRfFXAP74BdM7UICJ41yZLqNw59yHE_D
0-10-8		5-5-6		11-10-14		18-4-6
				5-9-2		6-5-8
Scale = 1:33.4						

Scale = 1:33.4

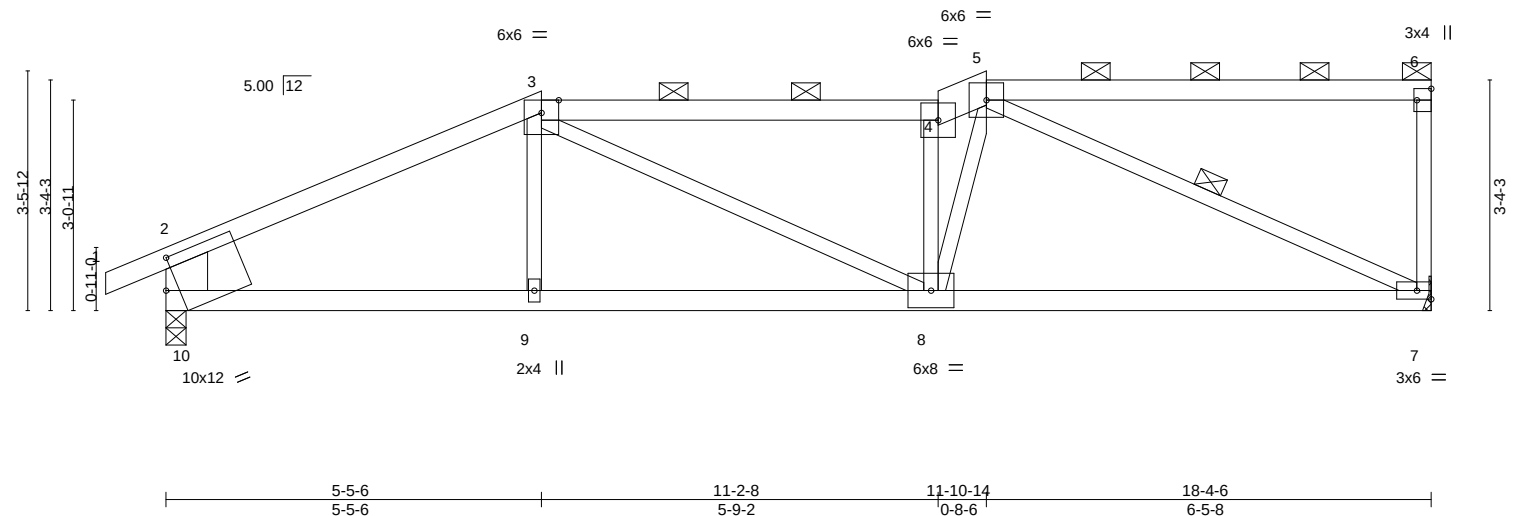


Plate Offsets (X,Y)--		[6:Edge,0-2-8], [10:0-2-3,0-5-5]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.96		Vert(LL) -0.14 8-9 >999 360		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.83		Vert(CT) -0.25 8-9 >855 240			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.60		Horz(CT) 0.03 7 n/a n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.07 8-9 >999 240		Weight: 65 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 3-4, 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-10: 2x8 SP DSS	WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=Mechanical, 10=0-3-8
 Max Horz 10=108(LC 5)
 Max Uplift 7=-30(LC 4), 10=-37(LC 8)
 Max Grav 7=805(LC 1), 10=893(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1209/48, 3-4=-1315/53, 4-5=-1427/58, 2-10=-777/69
 BOT CHORD 9-10=-23/1023, 8-9=-26/1023, 7-8=-22/1145
 WEBS 3-8=-8/325, 5-8=-15/772, 5-7=-1232/43, 4-8=-727/85

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 7, 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	L4	Roof Special			1	I43726241
Wheeler Lumber, Waverly, KS - 66871,			8.420 s		Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:45 2020 Page 1	
			ID:M6_qRERj_ax8BApGKEbrTSyOhsj-TUJP7HsqMsEa3pqkk6eJkquLh8X8pQM6aU6UecyHE_C			
0-10-8 3-10-3			9-7-5 13-6-2		18-4-6 4-10-4	
0-10-8 3-10-3			5-9-2 3-10-13			

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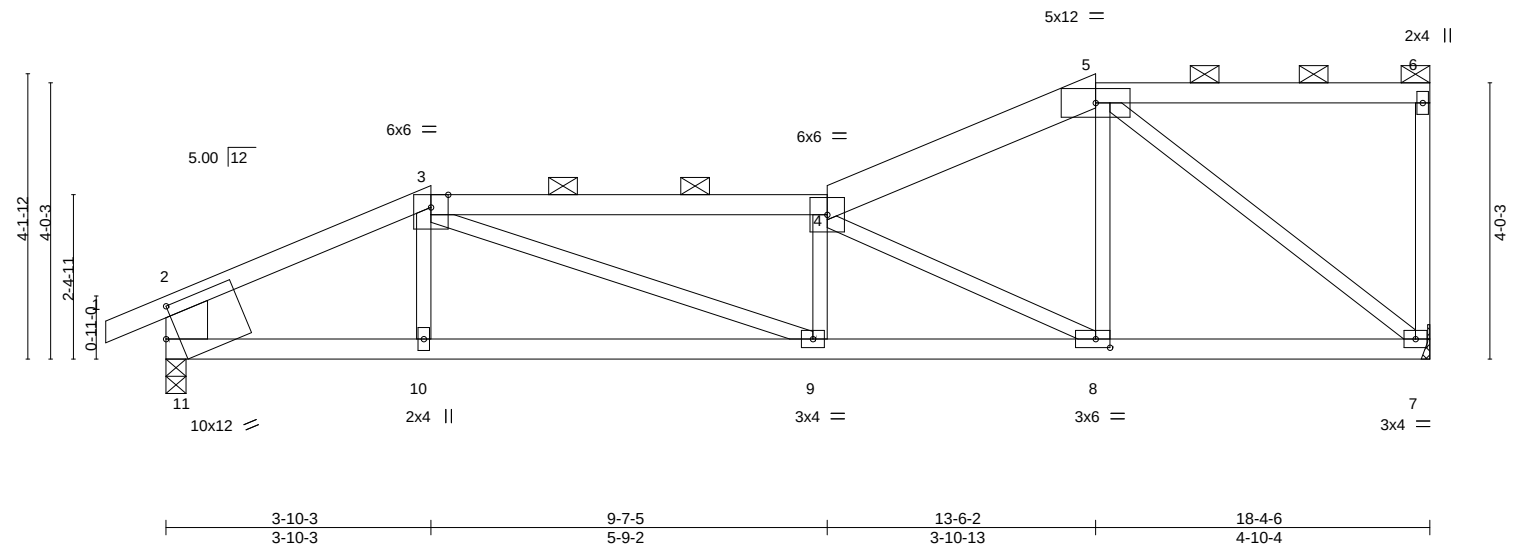


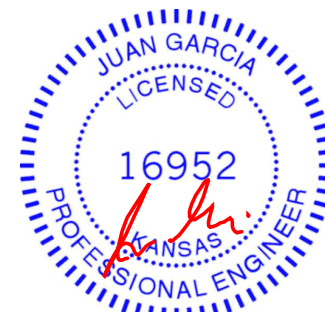
Plate Offsets (X,Y)--		[8:0-2-8,0-1-8], [11:0-2-3,0-5-5]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73
TCDL 10.0	Lumber DOL	1.15	BC 0.79
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.13 9-10 >999 360
			Vert(CT) -0.25 9-10 >850 240
			Horz(CT) 0.03 7 n/a n/a
			Wind(LL) 0.07 9-10 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 70 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-4 max.): 3-4, 5-6.
1-3: 2x4 SPF 2100F 1.8E, 4-5: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
2-11: 2x8 SP DSS	

REACTIONS.	(size) 7=Mechanical, 11=0-3-8
	Max Horz 11=130(LC 5)
	Max Uplift 7=-18(LC 4), 11=-41(LC 8)
	Max Grav 7=805(LC 1), 11=893(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1208/46, 3-4=-1771/59, 4-5=-886/39, 2-11=-765/54
BOT CHORD	10-11=-44/1028, 9-10=-47/1029, 8-9=-50/1777, 7-8=-22/784
WEBS	3-9=-8/792, 4-8=-1142/71, 5-8=0/617, 5-7=-980/21

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 7, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Girder	Ply	Lot 32 HT			
HT 32	L5	Roof Special		1	I43726242			
Wheeler Lumber, Waverly, KS - 66871,			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:46 2020 Page 1			Job Reference (optional)		
			ID:M6_qRERj_ax8BApGKEbrTSyOHSj-xhtoKdtS79MRgzPwHp9YG2RXoYwNYuqGo8s1A2yHE_B					
0-10-8	2-3-0	8-0-2		14-4-0	15-1-5	18-4-6		
0-10-8	2-3-0	5-9-2		6-3-14	0-9-5	3-3-1		

Scale = 1:34.7

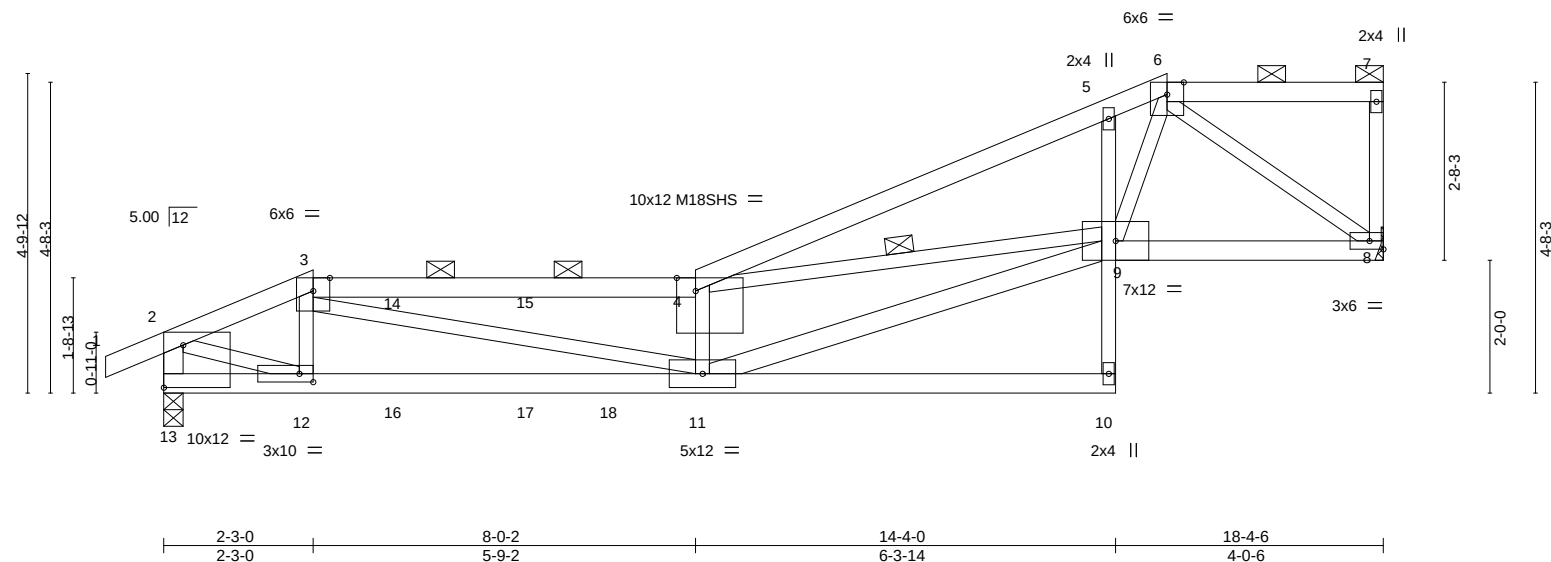


Plate Offsets (X,Y)-- [4:0-3-7,Edge], [12:0-2-8,0-1-8], [13:Edge,0-7-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.21	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.38	11-12	>566	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.17	11-12	>999	240	Weight: 75 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-12 max.): 3-4, 6-7.
3-4: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 4-9
10-13: 2x4 SPF 2100F 1.8E, 5-10: 2x3 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
9-11,2-13: 2x4 SPF No.2	

REACTIONS.	(size) 8=Mechanical, 13=0-3-8
	Max Horz 13=163(LC 5)
	Max Uplift 8=145(LC 8), 13=223(LC 8)
	Max Grav 8=932(LC 1), 13=1120(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1660/309, 3-4=-3336/603, 4-5=-1718/324, 5-6=-1660/395, 2-13=-1191/233
BOT CHORD	11-12=-390/1563, 5-9=-352/253, 8-9=-166/1011
WEBS	3-11=-294/1824, 4-11=-1158/322, 9-11=-687/3391, 4-9=-1748/348, 6-9=-375/1434, 6-8=-1259/240, 2-12=-285/1606

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145, 13=223.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 52 lb up at 2-3-0, and 69 lb down and 50 lb up at 3-6-4, and 69 lb down and 50 lb up at 5-6-4 on top chord, and 20 lb down at 2-3-0, 19 lb down at 3-6-4, and 19 lb down at 5-6-4, and 283 lb down and 76 lb up at 6-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	L5	Roof Special	Girder	8.420 s	1	I43726242
Wheeler Lumber, Waverly, KS - 66871,			ID:M6_qRERj_ax8BApGKEBrTSyOHSj-xhtoKdtS79MRgzPwHp9YG2RXoYwNYuqGo8s1A2yHE_B 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:46 2020 Page 2			Job Reference (optional)

LOAD CASE(S)
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 10-13=-20, 8-9=-20
- Concentrated Loads (lb)
- Vert: 3=-3(B) 12=-6(B) 14=-18(B) 15=-18(B) 16=-11(B) 17=-11(B) 18=-283(B)


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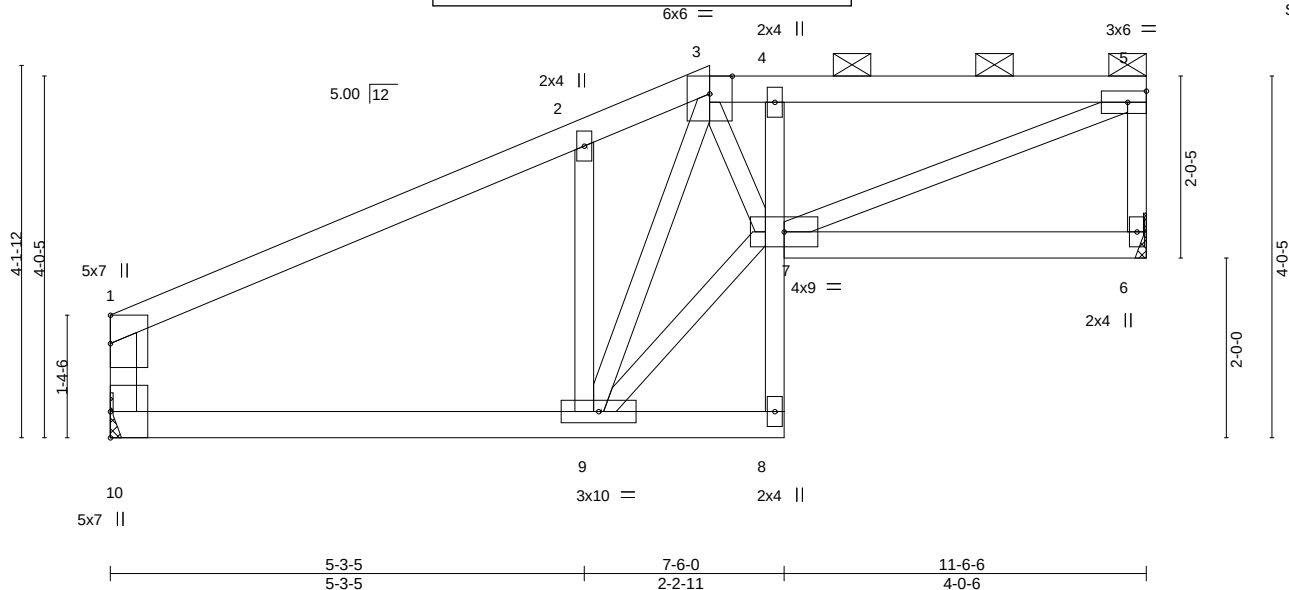
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrTSyOHsj-PtRAYzu4uTUII7_6rXhnpF_IUyH8HTdP1nbbiUyHE_A			Lot 32 HT	I43726243
HT 32	L6	Half Hip				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:47 2020 Page 1 12/16/2020			
		5-3-5		7-6-0		11-6-6	
		5-3-5		1-4-12		4-0-6	



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.08	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.15				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05	Weight: 44 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 4-8: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-10: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 10=Mechanical
 Max Horz 10=123(LC 5)
 Max Uplift 6=-92(LC 5), 10=-63(LC 8)
 Max Grav 6=508(LC 1), 10=508(LC 1)

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

TOP CHORD 1-2=-530/74, 2-3=-450/139, 3-4=-780/143, 4-5=-794/138, 5-6=-461/113, 1-10=-397/91
 BOT CHORD 9-10=-95/409, 4-7=-299/140
 WEBS 3-9=-403/39, 3-7=-158/641, 5-7=-157/828, 7-9=-137/720

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
HT 32

Truss
LAY1

Truss Type
GABLE

Wheeler Lumber,
Waverly, KS - 66871,

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

12/16/2020

4x5 =

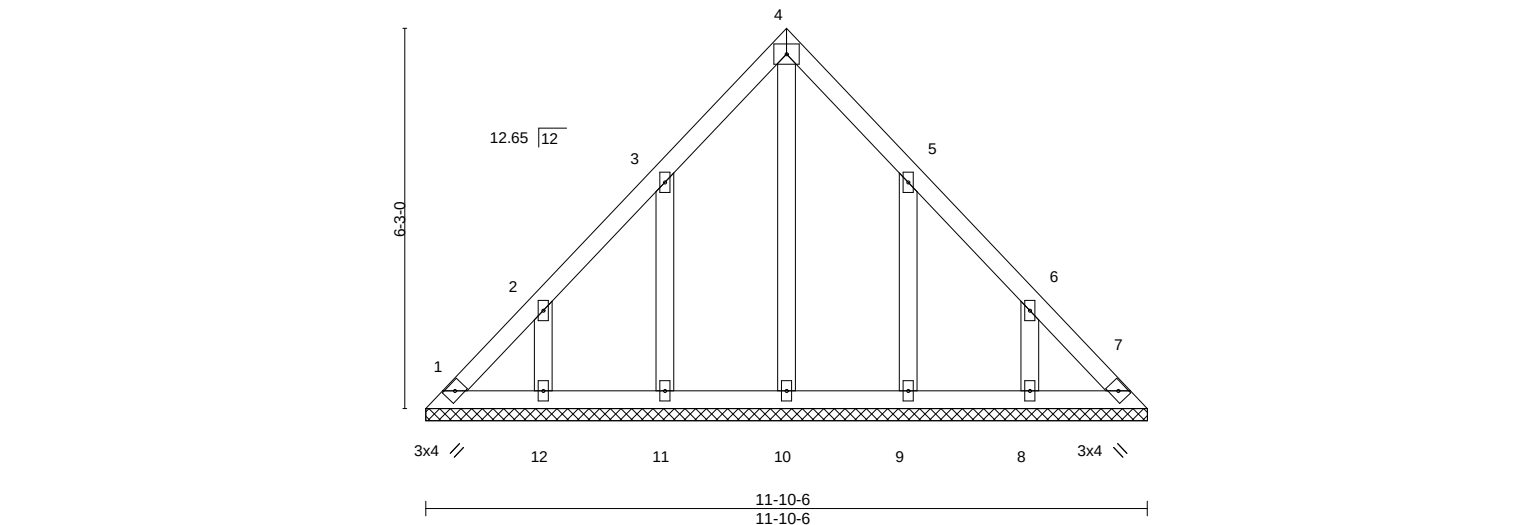
Ply
1

Lot 32 HT
I43726244

Job Reference (optional)

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:47 2020 Page 1

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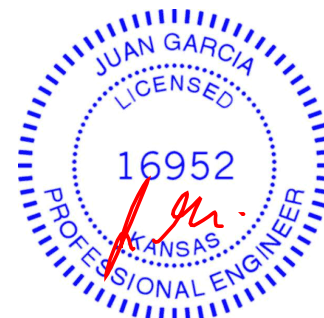
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 50 lb	FT = 10%

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

REACTIONS. All bearings 11-10-6.
 (lb) - Max Horz 1=-156(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-131(LC 8), 12=-124(LC 8), 9=-130(LC 9), 8=-124(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=131, 12=124, 9=130, 8=124.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

Job

HT 32

Truss

LAY2

Truss Type

GABLE

Lot

32 HT

143726245

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.420 s

Oct 9 2020

16:55:49

2020

Page 1

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26-6-9

22-2-2

29-0-0

2-5-7

12/16/2020

Scale = 1:49.2

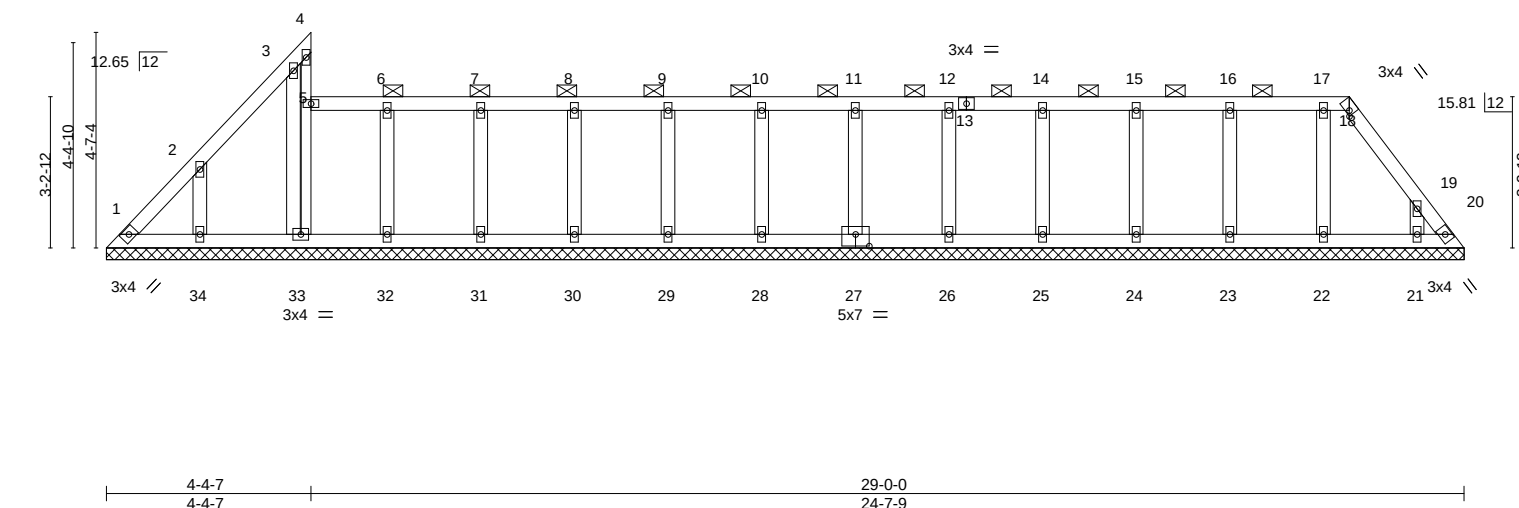


Plate Offsets (X,Y)--		[18:0-1-3,Edge], [27:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	0.00	20	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 112 lb	FT = 10%		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-33, 5-18.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 29-0-0.
(lb) - Max Horz 1=149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 34=135(LC 8), 21=129(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 20, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

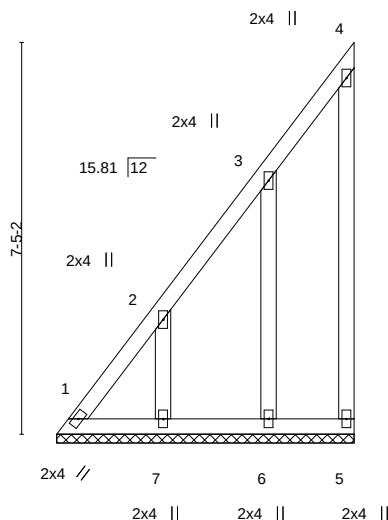
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 20, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (it=lb) 34=135, 21=129.
 - This truss 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.



November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 5-7-19 12/16/2020 5-7-10			Ply	Lot 32 HT
HT 32	LAY3	GABLE				1	I43726246
Wheeler Lumber,		Waverly, KS - 66871,	8.420 s			Oct 9 2020	Job Reference (optional)
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-pS6IA_wzBost9aihWfEUruclg9RIUtirJqFJpyHE_7				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 32 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

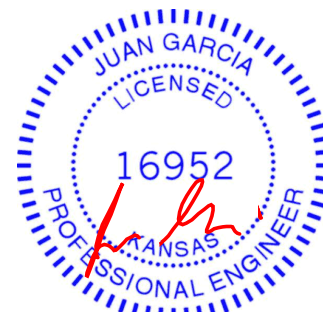
All bearings 5-7-10.
(lb) - Max Horz 1=271(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-142(LC 6), 5=-122(LC 7), 7=-186(LC 8), 6=-162(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 5, 7, 6 except 1=256(LC 5)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-325/241

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1, 122 lb uplift at joint 5, 186 lb uplift at joint 7 and 162 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

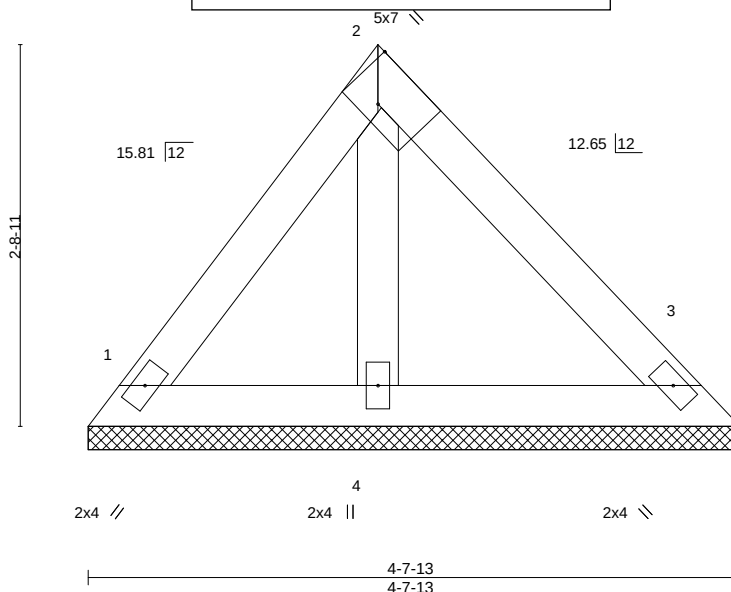
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	LAY4	GABLE			1	I43726247
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:50 2020 Page 1 ID:M6_qRERj_ax8BApGKEbrTSyOHsj-pS6IA_wzBost9aihWfEURucMW9R6UucrlqF3pyHE_7				
		2-0-13 2-0-13		4-7-13 2-7-0		



Scale = 1:16.4

Plate Offsets (X,Y)--		[2:0-2-14,Edge]									
LOADING (psf)		SPACING-		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d
TCLL	25.0	Plate Grip DOL		1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999
TCDL	10.0	Lumber DOL		1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999
BCLL	0.0 *	Rep Stress Incr		YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014			Matrix-P						
								PLATES		GRIP	
								MT20		197/144	
								Weight: 15 lb		FT = 10%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

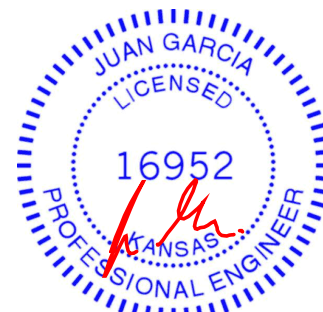
(size) 1=4-7-13, 3=4-7-13, 4=4-7-13
 Max Horz 1=-67(LC 4)
 Max Uplift 1=-35(LC 9), 3=-25(LC 9)
 Max Grav 1=106(LC 1), 3=122(LC 1), 4=134(LC 1)

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1 and 25 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23,2020

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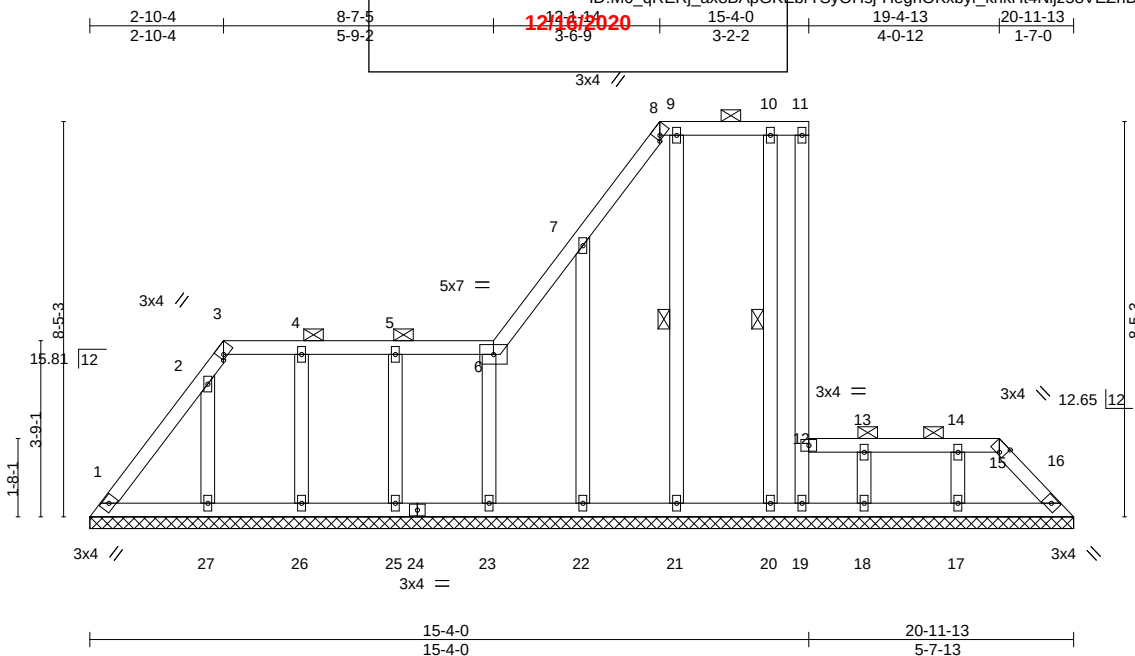


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	LAY5	GABLE			1	I43726248

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:51 2020 Page 1
 ID:M6_qRERj_ax8BapGKEbrTSyOhsj-HeghOKxbyi_knkHT4Nljz58VEZnDDKF?yPZorFyHE_6



Scale = 1:49.1

Plate Offsets (X,Y)--		[3:0-1-3,Edge], [8:0-1-3,Edge], [15:0-1-7,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 16 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 103 lb FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6, 8-11, 12-19, 12-15.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 9-21, 10-20

REACTIONS.

All bearings 20-11-13.
 (lb) - Max Horz 1=576(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 20, 17 except 1=224(LC 6), 19=104(LC 6), 16=138(LC 8), 27=523(LC 8), 26=115(LC 8), 23=130(LC 6), 22=192(LC 8), 21=243(LC 8), 18=163(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 19, 16, 26, 25, 22, 21, 20, 18 except 1=530(LC 8), 27=380(LC 15), 23=323(LC 8), 17=261(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-679/360, 3-4=-305/164, 4-5=-305/164, 5-6=-307/163, 6-7=-454/263, 7-8=-263/167
 WEBS 2-27=-323/544, 6-23=-299/170, 9-21=-207/266

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 20, 17 except (jt=lb) 1=224, 19=104, 16=138, 27=523, 26=115, 23=130, 22=192, 21=243, 18=163.
- This truss 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.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT
HT 32	LAY6	GABLE				I43726249
Wheeler Lumber, Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:52 2020 Page 1		Job Reference (optional)		
		ID:M6_qRERj_ax8BApGKEbrTSyOHSj-lrE3bgxDj?6bPus4e4GyWJhibz6iyoY8B3JLOiyHE_5				
		3-6-10 3-6-10 12/16/2020 9-2-5 5-7-11				

Scale = 1:28.1

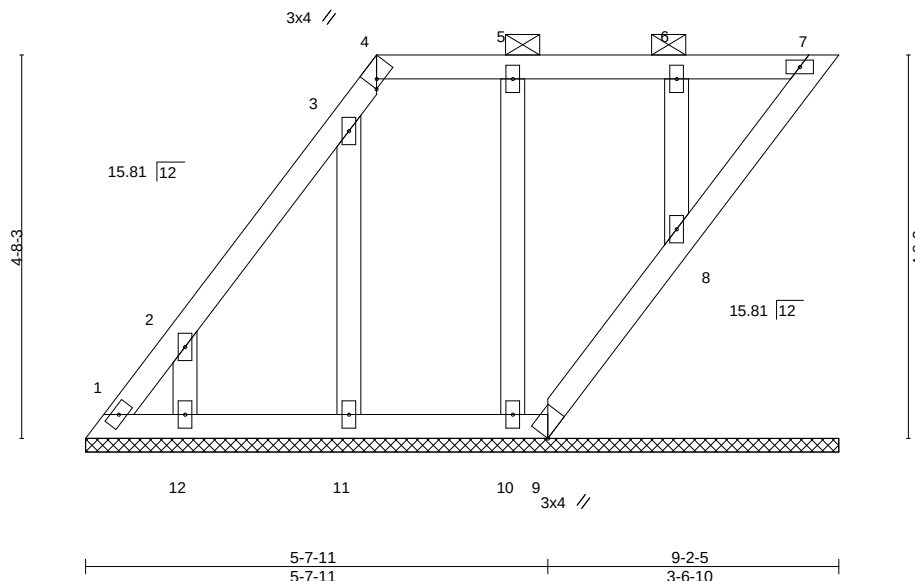


Plate Offsets (X,Y)--		[4:0-1-3,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 38 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

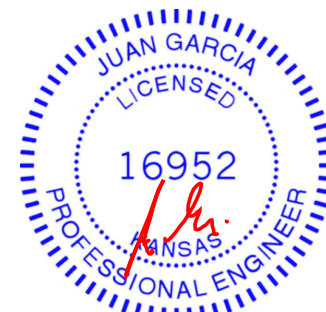
All bearings 9-2-5.
 (lb) - Max Horz 1=179(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9, 11, 10, 8 except 12=167(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 12, 11, 10, 8

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-251/125

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9, 11, 10, 8 except (jt=lb) 12=167.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrT 12/16/2020			Lot 32 HT	I43726250
HT 32	LAY7	GABLE				Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:53 2020 Page 1
ID: M6_qRERj_ax8BApGKEbrT SyOHsj-E1oRp0yrUJES02RGCo0B2WEiTNS_hFFIPj2vw8yHE_4

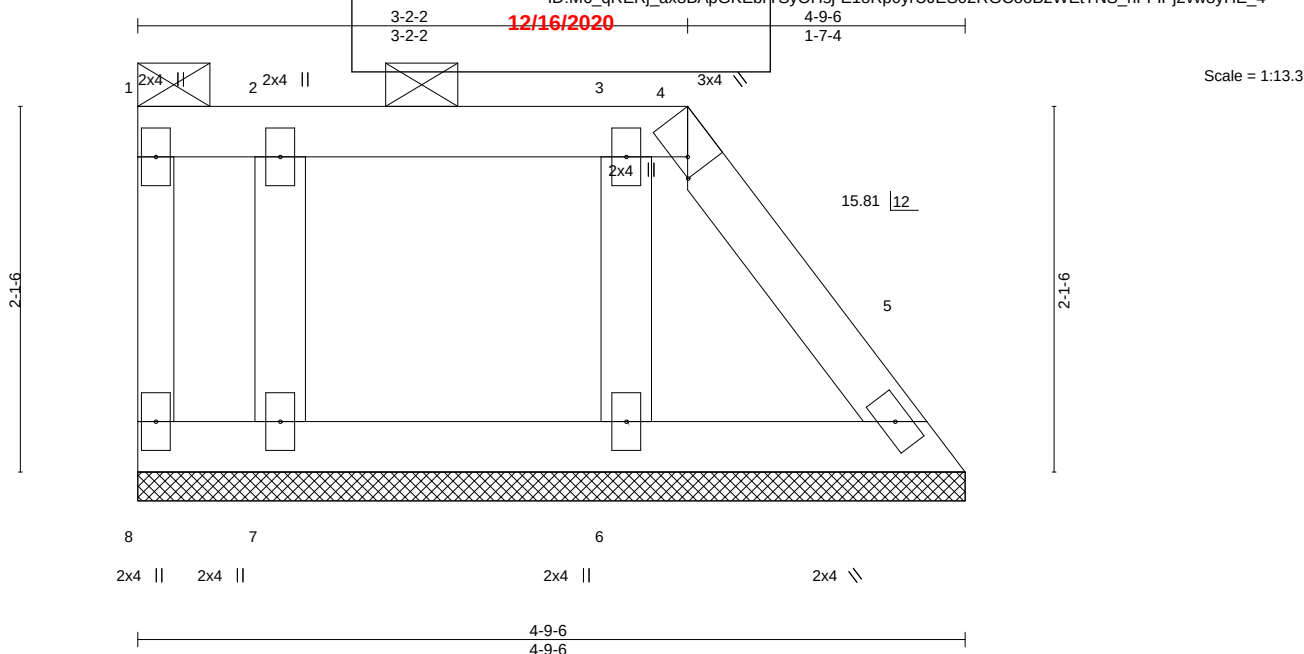


Plate Offsets (X,Y)--		[4:0-1-3,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.04		Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.02		Vert(CT)	n/a	-	n/a		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.02		Horz(CT)	0.00	5	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S						Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 4-9-6.
(lb) - Max Horz 8--72(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 8, 5, 7, 6
Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5, 7, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Lot 32 HT
HT 32	LAY8	GABLE	1	1	I43726251
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)		
			8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:54 2020 Page 1		
			ID:M6_qRERj_ax8BApGKEbrT SyOHsj-iDMp0MzTFdMleC0SIVJQbkm1tmo4QhzReNoSSayHE_3		
			7-10-19 12/16/2020 10-7-11 7-10-10 2-9-1		
			6x6		
			Scale: 3/16"=1'		

Scale: 3/16"=1'

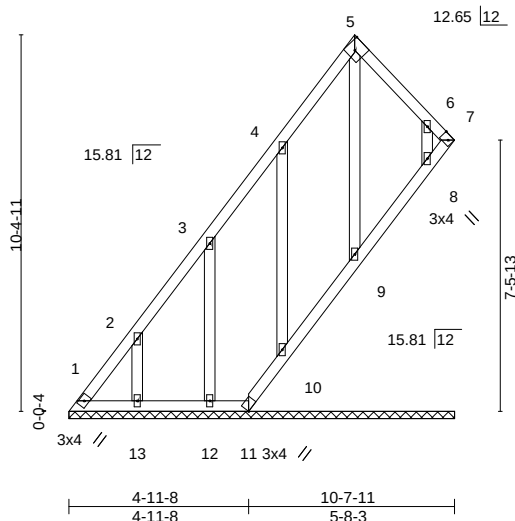


Plate Offsets (X,Y)--		[5:0-2-11,Edge], [7:0-2-8,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			
				Weight: 57 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 7-8.

REACTIONS.

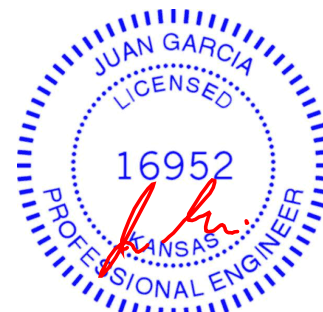
All bearings 10-7-11.
 (lb) - Max Horz 1=347(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-140(LC 6), 7=-125(LC 5), 10=-191(LC 8),
 12=-177(LC 8), 13=-174(LC 8), 8=-109(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 7, 11, 9, 10, 12, 13, 8 except 1=349(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-450/230, 2-3=-283/159

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=140, 7=125, 10=191, 12=177, 13=174, 8=109.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 10, 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.



November 23, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	M1	Hip Girder			1	I43726252
Wheeler Lumber, Waverly, KS - 66871,				8.420 s	Job Reference (optional)	
				Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:55 2020 Page 1		
				ID:M6_qRERj_ax8BApGKEbrTSyOHsj-AQwBDi_60wU9GLbfJCqf8xJ16A?j98ftb1X0_1yHE_2		
0-10-8 0-10-8 2-11-6 2-11-6 7-8-12 4-9-6				11-8-0 3-11-4 12-6-8 0-10-8		

Scale = 1:22.2

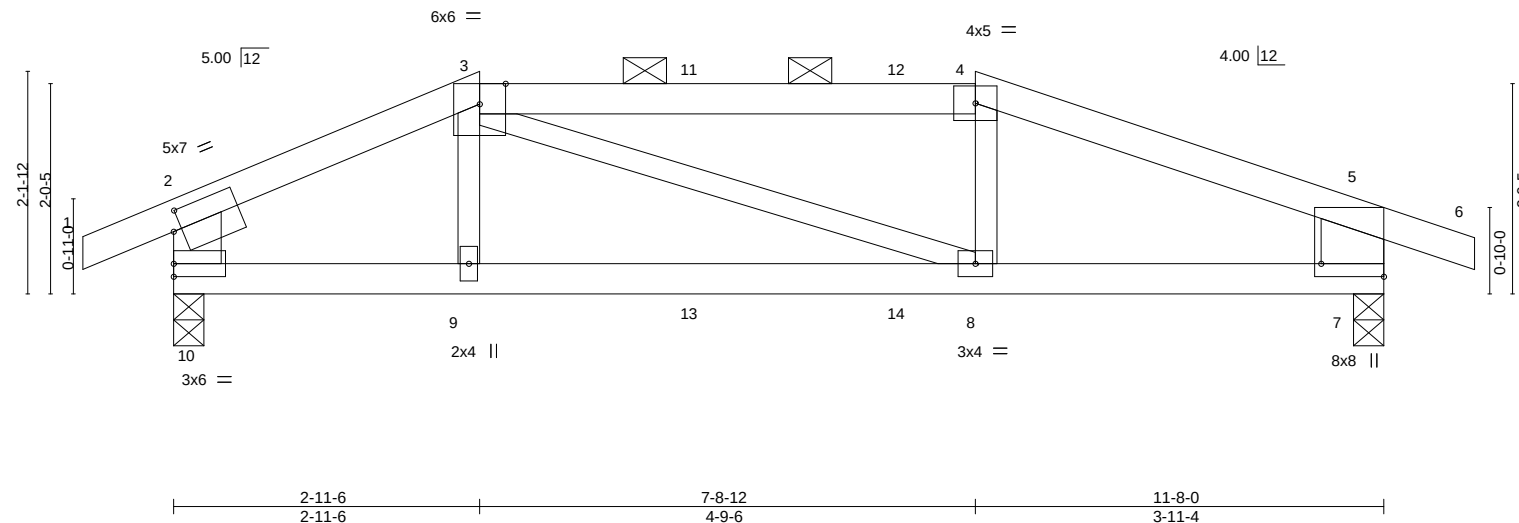


Plate Offsets (X,Y)--		[2:0-1-0,0-2-4], [7:Edge,0-7-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.11	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.22	Weight: 39 lb FT = 10%			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.10				

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 3-4: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-0 max.): 3-4.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-10: 2x6 SP DSS, 5-7: 2x8 SP DSS		

REACTIONS.	
(size)	10=0-3-8, 7=0-3-8
Max Horz	10=-24(LC 6)
Max Uplift	10=-202(LC 4), 7=-235(LC 5)
Max Grav	10=900(LC 1), 7=892(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1197/274, 3-4=-1234/314, 4-5=-1384/316, 2-10=-739/174, 5-7=-747/222
BOT CHORD	9-10=-198/1025, 8-9=-201/1017, 7-8=-252/1241
WEBS	3-8=-71/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=202, 7=235.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 67 lb up at 2-11-6, 82 lb down and 67 lb up at 5-0-14, and 82 lb down and 67 lb up at 7-0-14, and 82 lb down and 67 lb up at 7-8-12 on top chord, and 175 lb down and 64 lb up at 2-11-6, 32 lb down at 5-0-14, and 32 lb down at 7-0-14, and 217 lb down and 72 lb up at 7-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



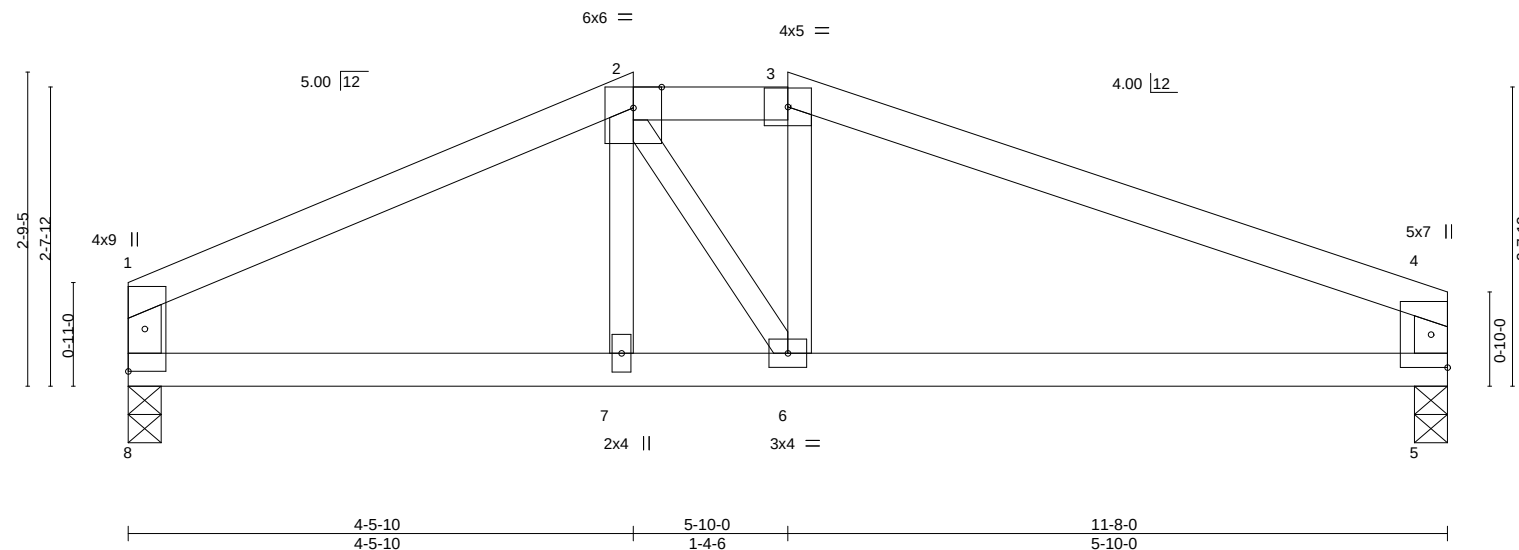
November 23,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/16/2020			Lot 32 HT
HT 32	M1	Hip Girder		Ply	1	I43726252
Wheeler Lumber, Waverly, KS - 66871,			Job Reference (optional)			

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20
Concentrated Loads (lb)
Vert: 3=-48(B) 4=-48(B) 9=-175(B) 8=-217(B) 11=-48(B) 12=-48(B) 13=-23(B) 14=-23(B)

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	M2	Hip			1	I43726253
Wheeler Lumber, Waverly, KS - 66871,				8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:55 2020 Page 1		
				ID:M6_qRERj_ax8BApGKEbrTSyOHSj-AQwBDi_60wU9GLbfJCqf8xJ7YA1F98ibt1X0_1yHE_2		
				12/16/2020		
				11-8-0		
				5-10-0		
				5-10-0		

Scale = 1:20.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.07 6-7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.12 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 6-7	>999	240	Weight: 34 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-8: 2x4 SPF No.2, 4-5: 2x4 SPF 2100F 1.8E

BRACING-

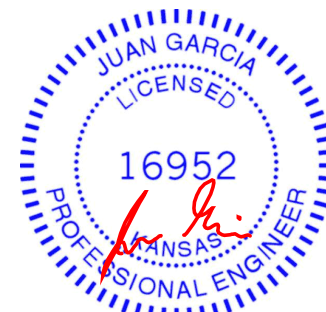
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Horz 8=-24(LC 6)
 Max Uplift 8=-54(LC 8), 5=-81(LC 5)
 Max Grav 8=512(LC 1), 5=512(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-649/98, 2-3=-619/136, 3-4=-717/110, 1-8=-412/81, 4-5=-426/113
 BOT CHORD 7-8=-38/534, 6-7=-40/535, 5-6=-66/617

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; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 23, 2020

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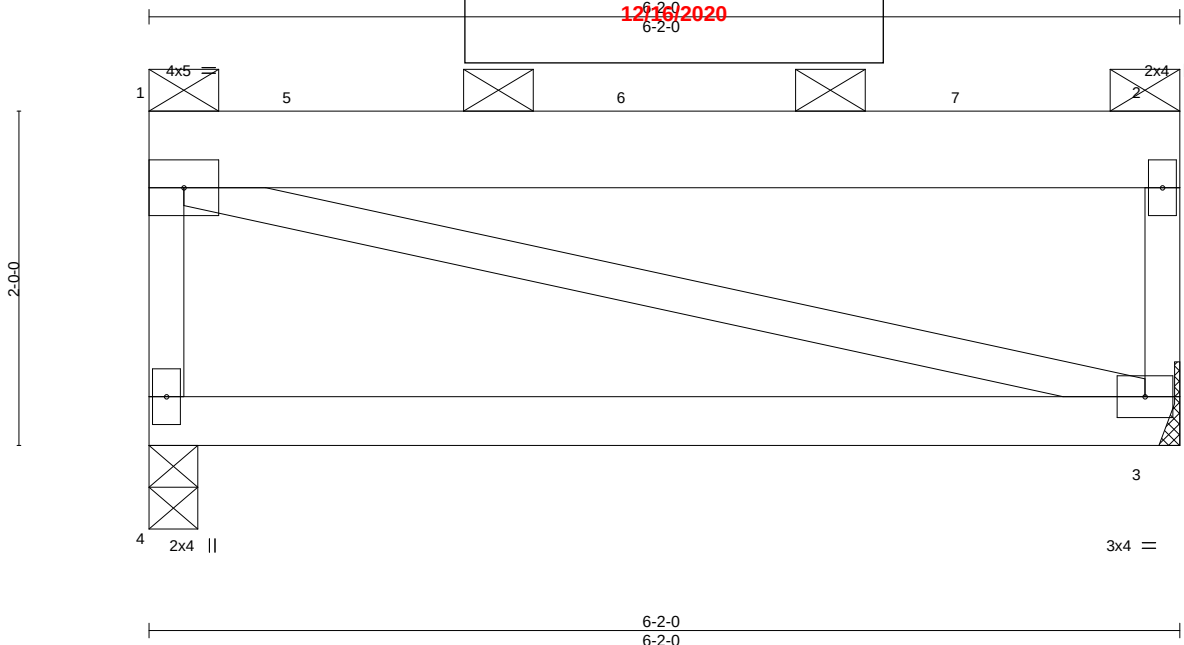
Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	R1	Flat Girder			2	I43726254

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:56 2020 Page 1
ID:M6_qRERj_ax8BApGKEbrTSyOHsj-ecUaR2?knEc0tVArtwLug9rE7aRoucBk6hHZXTyHE_1

12/16/2020

Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.04 3-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.08 3-4	>946	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00 4	****	240	Weight: 50 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical
Max Horz 4=-62(LC 4)
Max Uplift 4=-191(LC 4), 3=-158(LC 5)
Max Grav 4=819(LC 1), 3=765(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-759/226, 2-3=-706/185

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=191, 3=158.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 358 lb down and 120 lb up at 0-11-12, and 357 lb down and 86 lb up at 2-11-12, and 333 lb down and 84 lb up at 4-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2



November 23, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
HT 32	R1	Flat Girder	AS NOTED ON PLANS REVIEW		Ply 2
Wheeler Lumber, Waverly, KS - 66871,			LEE'S SUMMIT, MISSOURI		Lot 32 HT I43726254
			12/16/2020		Job Reference (optional)
					8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:56 2020 Page 2
					ID:M6_qRERj_ax8BApGKEbrTSyOHsj-ecUaR2?knEc0tVArtwLug9rE7aRoucBk6hHZXTyHE_1

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-358 6=-357 7=-333

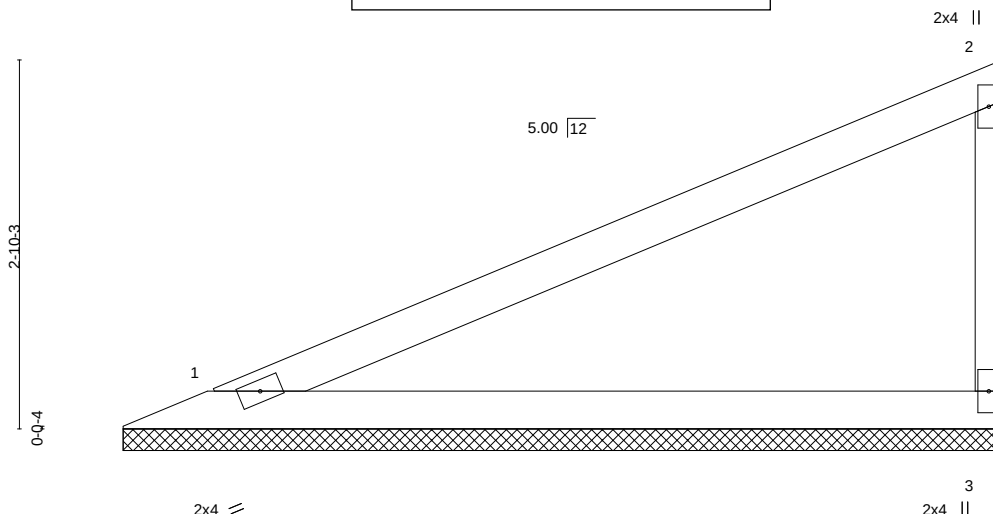
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 32 HT
HT 32	V1	Valley	8.420 s	1		I43726255
Wheeler Lumber, Waverly, KS - 66871,			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-6o2yeN?MXYktVf1Rds7DMOO4_kld3XtKL063vyHE_0 12/18/2020			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 17 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 1=6-9-6, 3=6-9-6
 Max Horz 1=109(LC 5)
 Max Uplift 1=-39(LC 8), 3=-61(LC 8)
 Max Grav 1=269(LC 1), 3=269(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

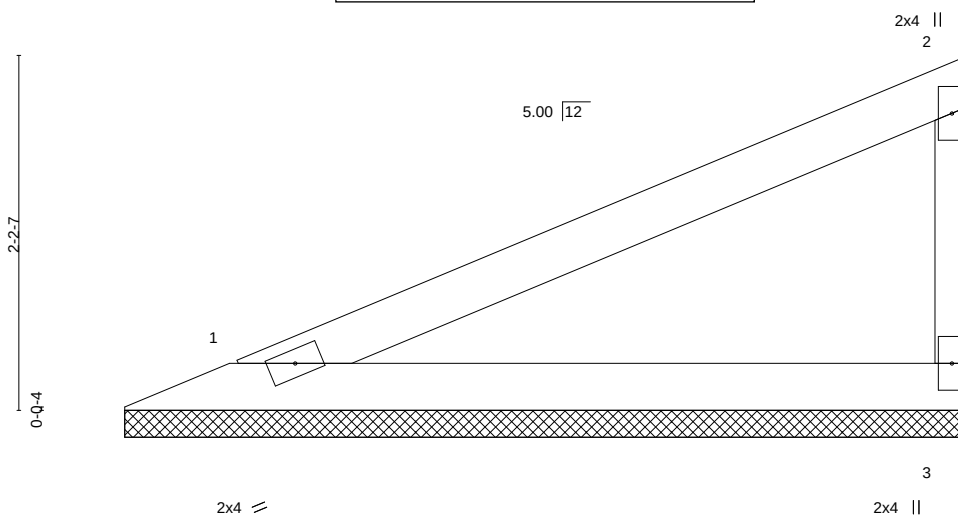
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	V2	Valley	12/18/2020 5-3-6		1	I43726256
Wheeler Lumber, Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:57 2020 Page 1		Job Reference (optional)		ID:M6_qRERj_ax8BApGKEBrTSyOHsj-6o2yeN?MXtVf1Rds7DMOUN_nAd3XtKL063vyHE_0



Scale = 1:14.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 1=5-2-13, 3=5-2-13
 Max Horz 1=81(LC 5)
 Max Uplift 1=-29(LC 8), 3=-45(LC 8)
 Max Grav 1=199(LC 1), 3=199(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

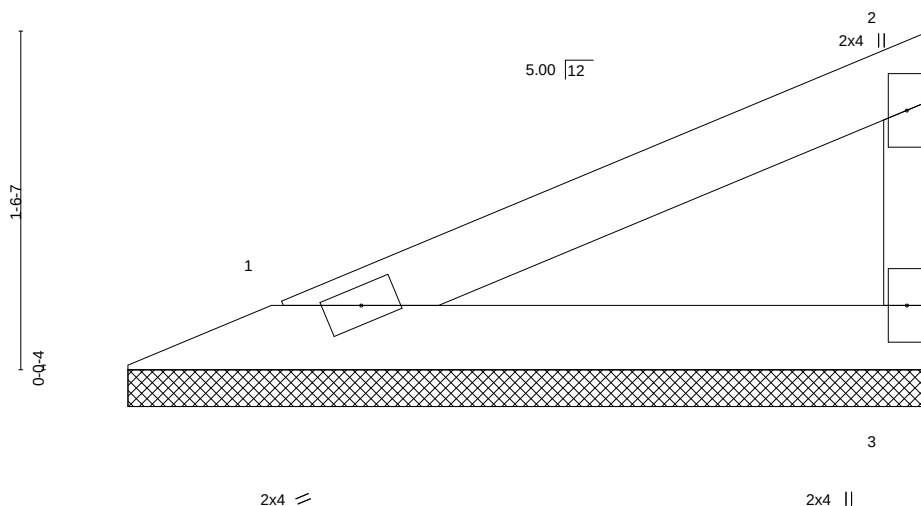
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	V3	Valley	12/18/2020 3-8-3		1	I43726257
Wheeler Lumber, Waverly, KS - 66871,		Job Reference (optional) ID: M6_qRERj_ax8BApGKEbrTSyOHsj-a_bKsj0_lrsk7pKD_LNMaxij08MMWn1Z?mgbMyHE_?				



Scale = 1:10.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-10, 3=3-7-10
 Max Horz 1=52(LC 5)
 Max Uplift 1=-19(LC 8), 3=-29(LC 8)
 Max Grav 1=127(LC 1), 3=127(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

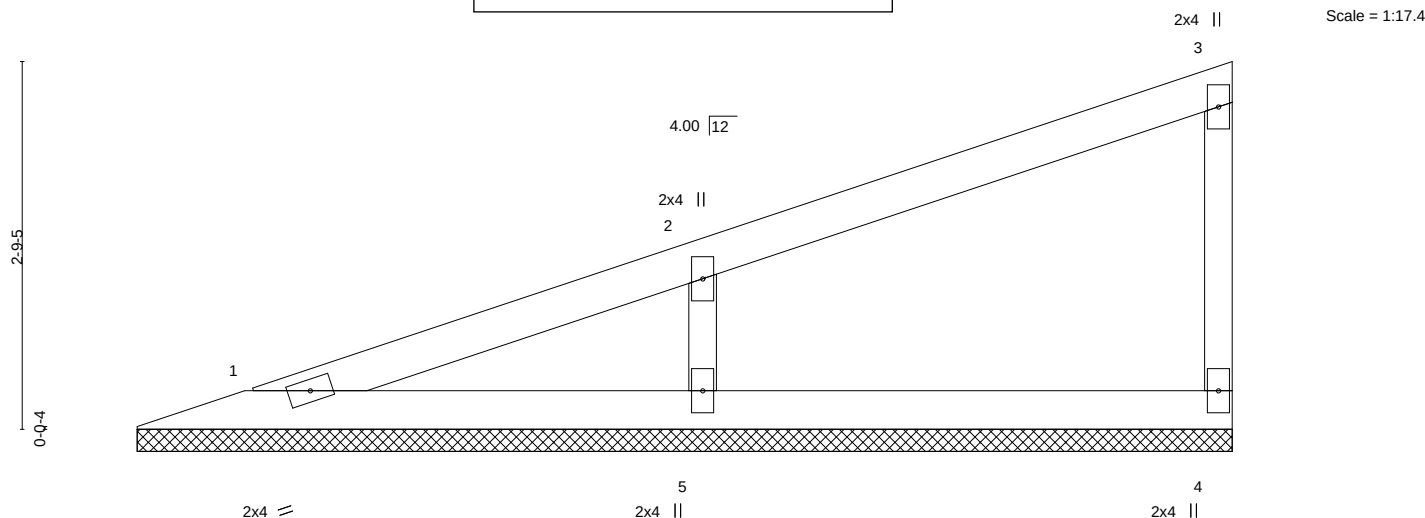
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 32 HT
HT 32	V5	Valley	12/16/2020		1	I43726259
Wheeler Lumber,		Waverly, KS - 66871,	ID: M6_qRERj_ax8BApGKEbrTSyOHSj-2B9i331c39_bkzvQY2ublnTsHnU05z8AofVD7oyHE__			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 21 lb	FT = 10%

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 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=8-3-4, 4=8-3-4, 5=8-3-4
 Max Horz 1=109(LC 5)
 Max Uplift 1=-1(LC 4), 4=-24(LC 8), 5=-98(LC 8)
 Max Grav 1=108(LC 1), 4=137(LC 1), 5=411(LC 1)

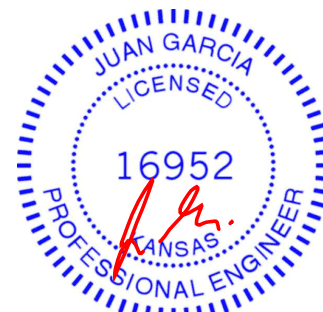
FORCES.

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

WEBS 2-5=-320/153

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

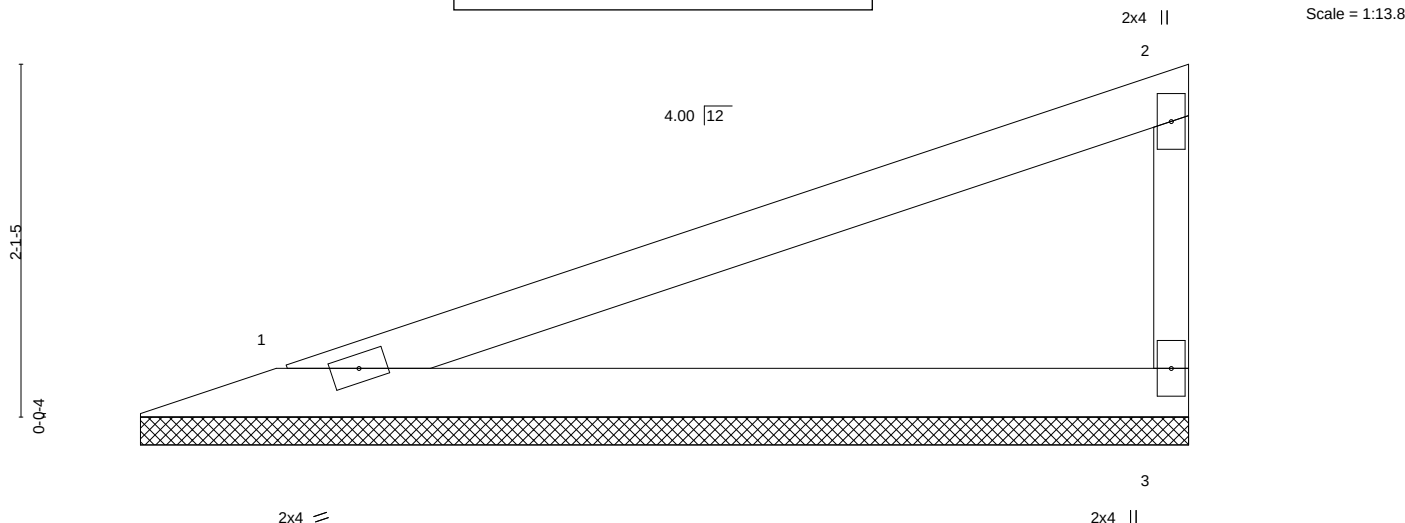
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: M6_qRERj_ax8BApGKEbrTSyOHSj-2B9i331c39_bkzvQY2ublnTnAnRA5z1AofVD7oyHE__ 12/16/2020			Lot 32 HT	I43726260
HT 32	V6	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:55:59 2020 Page 1			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 15 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 1=6-3-4, 3=6-3-4
 Max Horz 1=79(LC 5)
 Max Uplift 1=39(LC 4), 3=51(LC 8)
 Max Grav 1=238(LC 1), 3=238(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

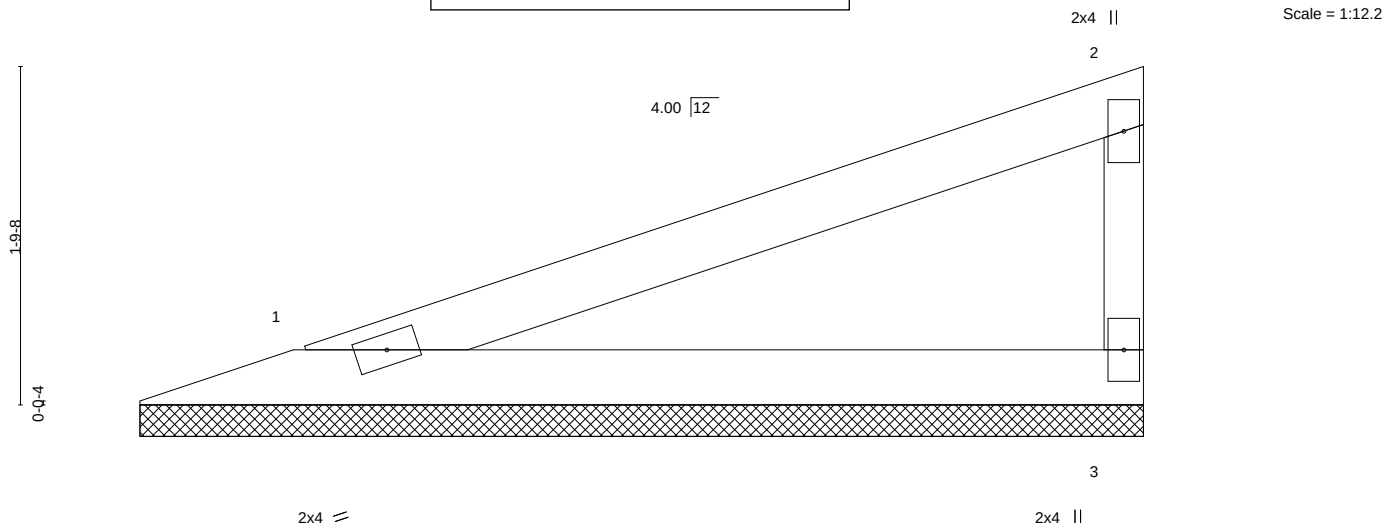
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Qty	Ply	Lot 32 HT			
HT 32	V7	Valley	1	1	I43726261			
			Job Reference (optional)					
Wheeler Lumber,		Waverly, KS - 66871,		8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:56:00 2020 Page 1				
			ID:M6_qRERj_ax8BApGKEbrTSyOHsj-WNj4HP2EqT6SM7Tc6mQqq?0?vBp0qQHK0JFnfEyHDzz					
			12/16/2020 5-4-8					



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 12 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

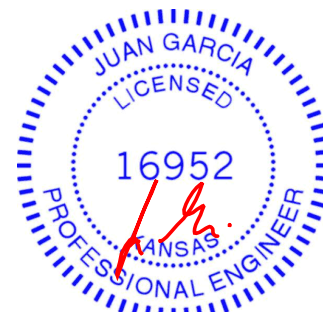
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-3-12, 3=5-3-12
Max Horz 1=65(LC 5)
Max Uplift 1=-32(LC 4), 3=-42(LC 8)
Max Grav 1=195(LC 1), 3=195(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

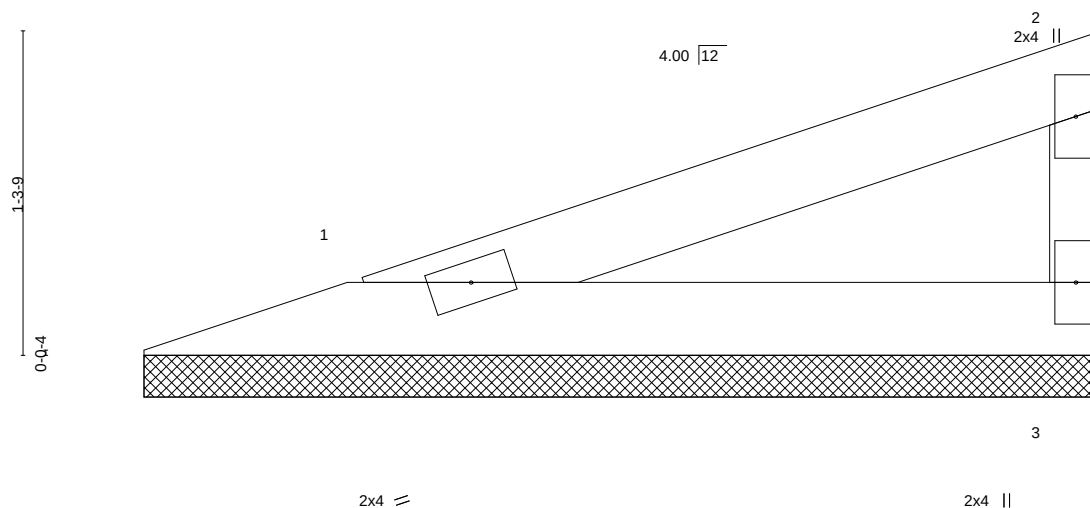
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:M6_qRERj_ax8BApGKEbrTSyOHSj-?ZHTUI2sbmFJ_G2ogTx3NCZDwbA2ZsWTFz_KBgyHDzy 12/16/2020 3-10-11			Lot 32 HT	I43726262
HT 32	V8	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS - 66871,	8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 16:56:01 2020 Page 1				



Scale = 1:9.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

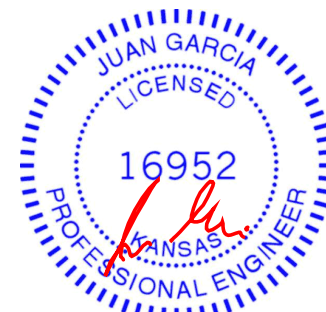
TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-15, 3=3-9-15
Max Horz 1=43(LC 5)
Max Uplift 1=-21(LC 4), 3=-27(LC 8)
Max Grav 1=128(LC 1), 3=128(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 23, 2020

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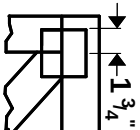
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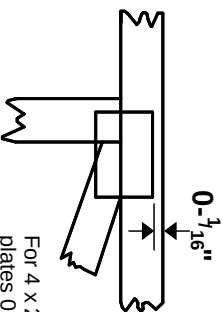
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



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



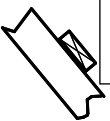
This symbol indicates the required direction of slots in connector plates.
Plate location details available in MITek 20120 software or upon request.

PLATE SIZE



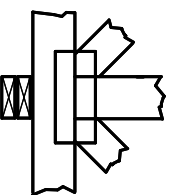
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

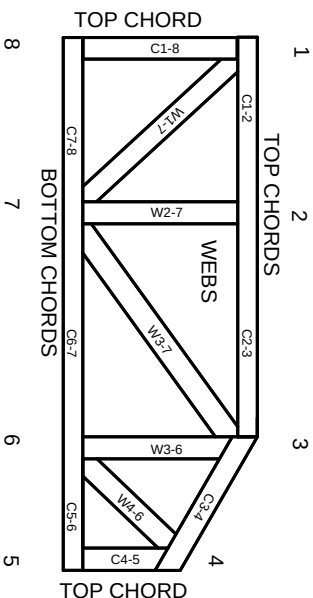


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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