



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

06/11/2020

RE: 400302
Lot 15 HT

MiTek USA, Inc.

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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

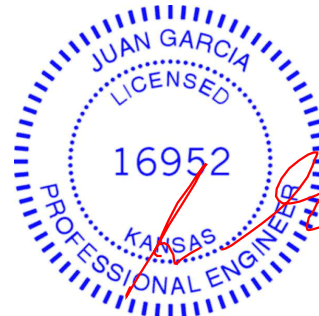
Floor Load: N/A psf

This package includes 81 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I41303167	A1	5/14/2020	27	I41303193	G2	5/14/2020
2	I41303168	A2	5/14/2020	28	I41303194	H1	5/14/2020
3	I41303169	A3	5/14/2020	29	I41303195	H2	5/14/2020
4	I41303170	A4	5/14/2020	30	I41303196	H3	5/14/2020
5	I41303171	B1	5/14/2020	31	I41303197	H4	5/14/2020
6	I41303172	B2	5/14/2020	32	I41303198	H5	5/14/2020
7	I41303173	B3	5/14/2020	33	I41303199	H6	5/14/2020
8	I41303174	B4	5/14/2020	34	I41303200	J1	5/14/2020
9	I41303175	C1	5/14/2020	35	I41303201	J2	5/14/2020
10	I41303176	C2	5/14/2020	36	I41303202	J3	5/14/2020
11	I41303177	C3	5/14/2020	37	I41303203	J4	5/14/2020
12	I41303178	C4	5/14/2020	38	I41303204	J5	5/14/2020
13	I41303179	C5	5/14/2020	39	I41303205	J6	5/14/2020
14	I41303180	C6	5/14/2020	40	I41303206	J7	5/14/2020
15	I41303181	C7	5/14/2020	41	I41303207	J8	5/14/2020
16	I41303182	D1	5/14/2020	42	I41303208	J9	5/14/2020
17	I41303183	D2	5/14/2020	43	I41303209	J10	5/14/2020
18	I41303184	D3	5/14/2020	44	I41303210	J11	5/14/2020
19	I41303185	D4	5/14/2020	45	I41303211	J12	5/14/2020
20	I41303186	D5	5/14/2020	46	I41303212	J13	5/14/2020
21	I41303187	D6	5/14/2020	47	I41303213	J15	5/14/2020
22	I41303188	E1	5/14/2020	48	I41303214	J16	5/14/2020
23	I41303189	E2	5/14/2020	49	I41303215	J17	5/14/2020
24	I41303190	E3	5/14/2020	50	I41303216	J18	5/14/2020
25	I41303191	E4	5/14/2020	51	I41303217	J19	5/14/2020
26	I41303192	G1	5/14/2020	52	I41303218	J20	5/14/2020

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.



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RE: 400302 - Lot 15 HT

MiTek USA, Inc.

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

Site Information:

Project Customer: Project Name:

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
53	I41303219	J21	5/14/2020
54	I41303220	J22	5/14/2020
55	I41303221	J23	5/14/2020
56	I41303222	J24	5/14/2020
57	I41303223	J25	5/14/2020
58	I41303224	J26	5/14/2020
59	I41303225	J27	5/14/2020
60	I41303226	K1	5/14/2020
61	I41303227	K2	5/14/2020
62	I41303228	K3	5/14/2020
63	I41303229	K4	5/14/2020
64	I41303230	LAY1	5/14/2020
65	I41303231	LAY2	5/14/2020
66	I41303232	LAY3	5/14/2020
67	I41303233	LAY4	5/14/2020
68	I41303234	LAY5	5/14/2020
69	I41303235	LAY6	5/14/2020
70	I41303236	LAY7	5/14/2020
71	I41303237	LAY8	5/14/2020
72	I41303238	V1	5/14/2020
73	I41303239	V2	5/14/2020
74	I41303240	V3	5/14/2020
75	I41303241	V4	5/14/2020
76	I41303242	V5	5/14/2020
77	I41303243	V6	5/14/2020
78	I41303244	V7	5/14/2020
79	I41303245	V8	5/14/2020
80	I41303246	V9	5/14/2020
81	I41303247	V10	5/14/2020



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

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Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

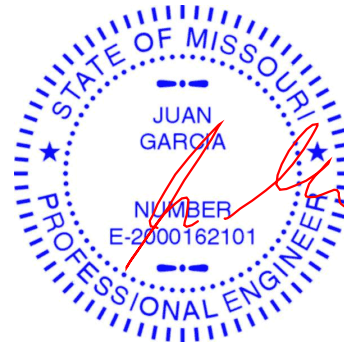
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Missouri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

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.



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78	I41303244	V7	5/14/2020
79	I41303245	V8	5/14/2020
80	I41303246	V9	5/14/2020
81	I41303247	V10	5/14/2020

Job: 400302

Truss: A1

Truss Type: HIP GIRDER

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Lot 15 HT

Job Reference (optional)

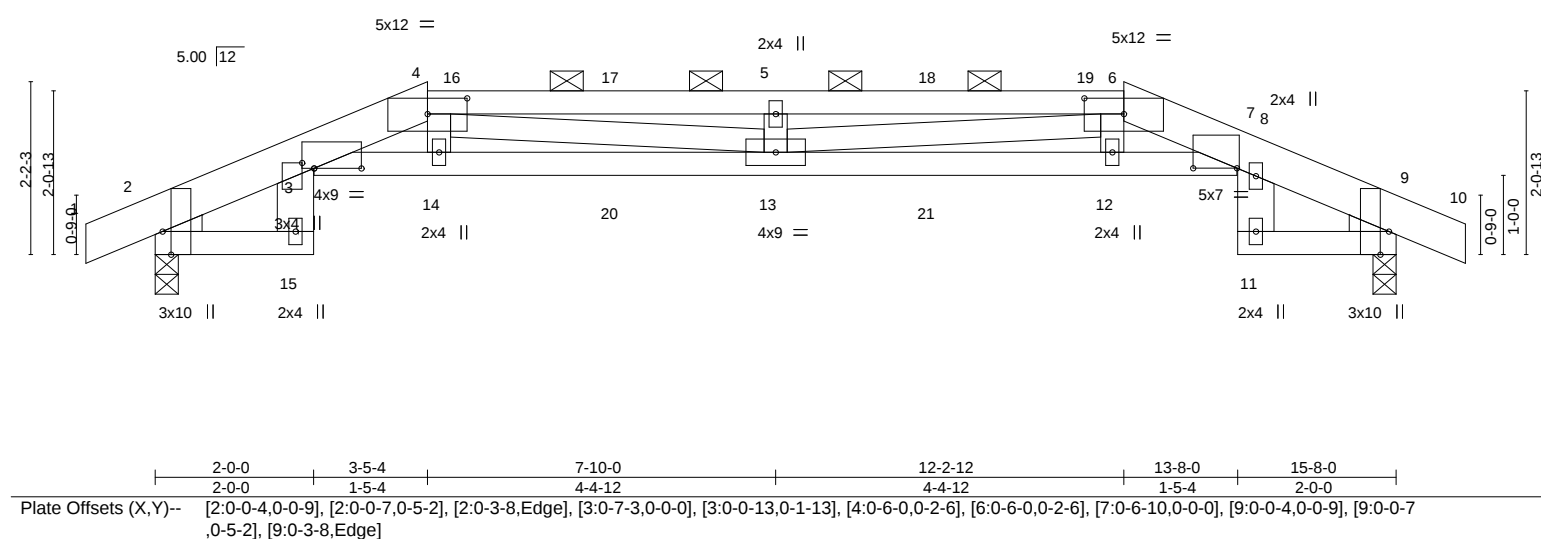
8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:00 2020 Page 1

ID: bWuMDBN0qF5cDvSpwhpH1zCzbQ-c9qP7nllJ?eLLWE6gAXvWwW1785PtnPskkBDzGbFT

-0-10-8 | 2-0-0 | 3-5-4 | 7-10-0 | 12-2-12 | 13-8-0 | 15-8-0 | 16-6-8

0-10-8 | 2-0-0 | 1-5-4 | 4-4-12 | 4-4-12 | 1-5-4 | 2-0-0 | 0-10-8

Scale = 1:29.1



LOADING (psf)	SPACING-	2-0-0	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.20	13	>937	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.37	13	>495	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.25	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.19	13	>976	240	Weight: 119 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
4-6: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except*
3-15,8-11: 2x6 SPF No.2

WEDGE
Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-6-9 max.): 4-6.

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

REACTIONS. (lb/size) 2=996/0-3-8, 9=998/0-3-8
Max Horz 2=-31(LC 30)
Max Uplift 2=-223(LC 4), 9=-221(LC 5)
Max Grav 2=996(LC 21), 9=998(LC 22)

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

TOP CHORD 2-3=-552/142, 3-4=-3349/761, 4-16=-4564/1075, 16-17=-4564/1075, 5-17=-4564/1075, 5-18=-4564/1075, 18-19=-4564/1075, 6-19=-4564/1075, 6-7=-3397/771, 7-8=-40/283, 8-9=-541/131

BOT CHORD 3-14=-758/3515, 14-20=-731/3449, 13-20=-731/3449, 13-21=-732/3447, 12-21=-732/3447, 7-12=-727/3378

WEBS 4-13=-300/1135, 5-13=-311/147, 6-13=-304/1139, 6-12=-24/370

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 221 lb uplift at joint 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.

Continued on page 2

Warning - This representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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 06/11/2020	Ply	Lot 15 HT
400302	A1	HIP GIRDER		2	I41303167

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)
8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:00 2020 Page 2
ID:bWuMDBN0qF5cDvSpwhpH1zCzbQ-c9qP7nliLJ?eLLWE6gAXvwWfW1?85PtnPskkBDzGbFT

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 103 lb up at 3-5-4, 72 lb down and 47 lb up at 3-10-0, 75 lb down and 47 lb up at 5-10-0, 75 lb down and 47 lb up at 7-10-0, 75 lb down and 47 lb up at 9-10-0, and 72 lb down and 47 lb up at 11-10-0, and 165 lb down and 103 lb up at 12-2-12 on top chord, and 76 lb down and 23 lb up at 3-5-4, 32 lb down and 23 lb up at 3-10-0, 32 lb down and 23 lb up at 5-10-0, 32 lb down and 23 lb up at 7-10-0, 32 lb down and 23 lb up at 9-10-0, and 32 lb down and 23 lb up at 11-10-0, and 76 lb down and 23 lb up at 12-2-0 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: 1-4=-70, 4-6=-70, 6-10=-70, 2-15=-20, 3-7=-20, 9-11=-20
- Concentrated Loads (lb)
 - Vert: 4=-41(F) 6=-41(F) 14=-108(F) 13=-32(F) 5=-17(F) 12=-108(F) 16=-17(F) 17=-17(F) 18=-17(F) 19=-17(F) 20=-32(F) 21=-32(F)

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Job
400302

Truss
A2

Truss Type
Hip

Wheeler Lumber,
Waverly, KS 66871

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LEE'S SUMMIT, MISSOURI**

ID: bWuMDBN0tjF5cDvSpwph
06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:44:35 2020 Page 1

1zCzbQ-blrt_2E_zkurxzMAudAm_okWHSOWsRy4L6DZw?zGs6w

1-11-8
1-11-8

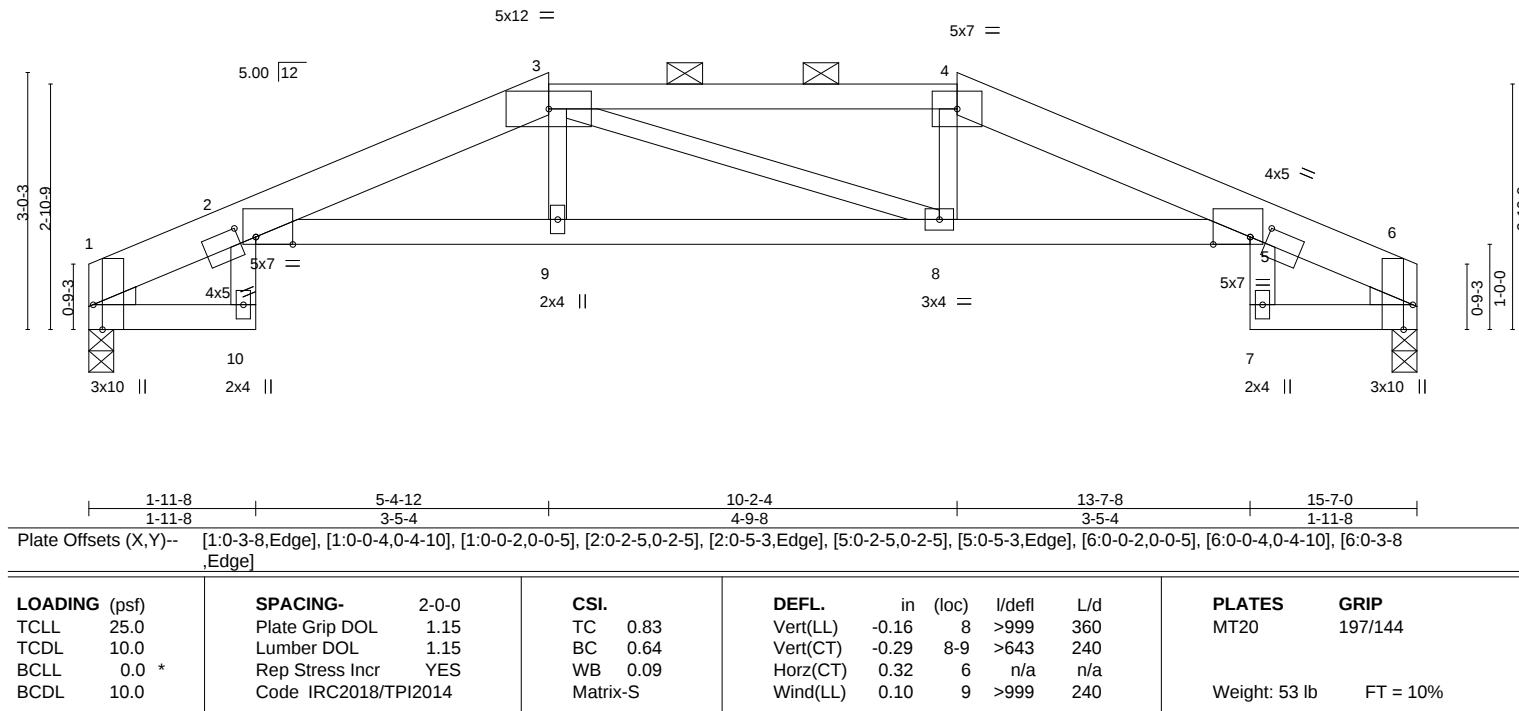
5-4-12
3-5-4

10-2-4
4-9-8

13-7-8
3-5-4

15-7-0
1-11-8

Scale = 1:27.0



LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
2-10,5-7: 2x4 SPF No.2

WEDGE
Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 6=0-3-8
Max Horz 1=-46(LC 9)
Max Uplift 1=-66(LC 8), 6=-66(LC 9)
Max Grav 1=688(LC 1), 6=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-399/62, 2-3=-1634/190, 3-4=-1569/191, 4-5=-1634/185, 5-6=-399/57
BOT CHORD 2-9=-130/1564, 8-9=-126/1569, 5-8=-121/1564

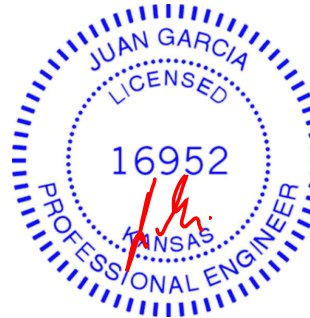
BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except
2-0-0 oc purlins (4-4-9 max.): 3-4.

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

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) 1, 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.

May 14,2020

Job

400302

Truss

A3

Truss Type

Hip

Lot

15 HT

141303169

Wheeler Lumber,

Waverly, KS 66871

1-11-8

1-11-8

7-4-12

5-5-4

13-7-8

5-5-4

15-7-0

1-11-8

Scale = 1:27.2

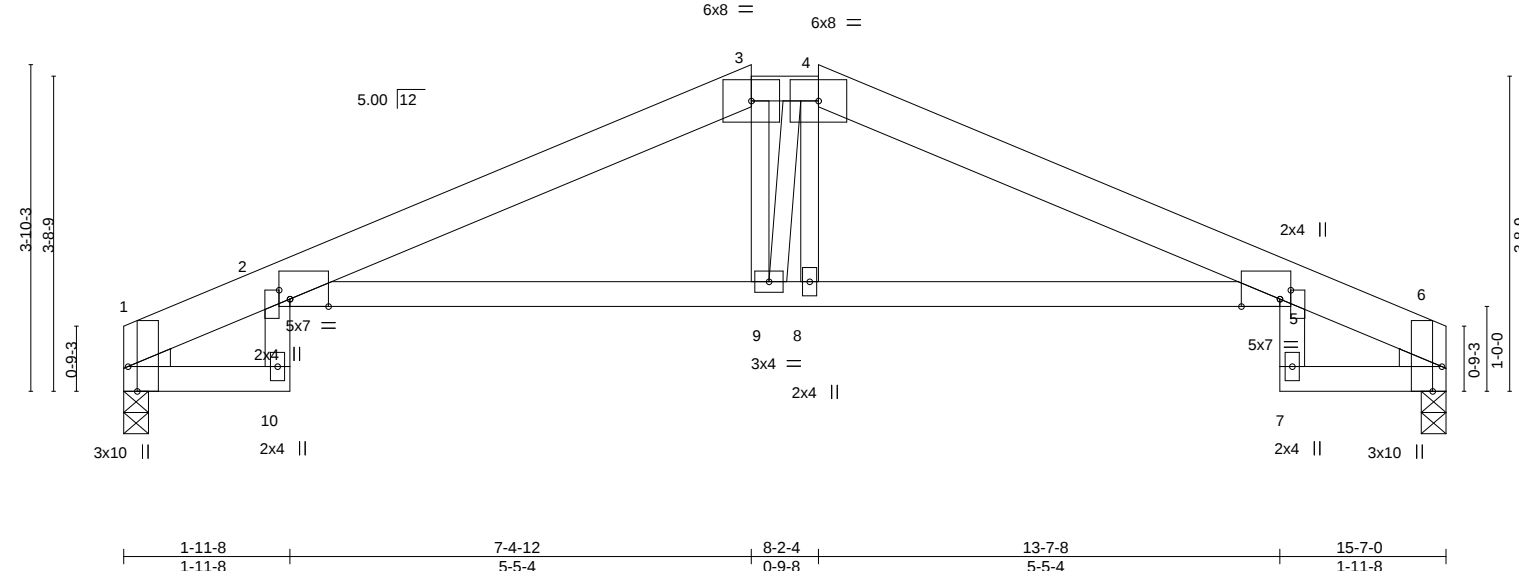


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [1:0-0-4,0-4-10], [1:0-0-2,0-0-5], [2:0-1-4,0-1-9], [2:0-5-7,Edge], [5:0-1-4,0-1-9], [5:0-5-7,Edge], [6:0-0-2,0-0-5], [6:0-0-4,0-4-10], [6:0-3-8,Edge]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.21	2-9	>879	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.39	2-9	>470	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.41	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.15	2-9	>999	240	Weight: 56 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
2-10,5-7: 2x4 SPF No.2

WEDGE
Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-6-10 max.): 3-4.

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

REACTIONS.

(size) 1=0-3-8, 6=0-3-8

Max Horz 1=61(LC 8)

Max Uplift 1=-84(LC 8), 6=-84(LC 9)

Max Grav 1=688(LC 1), 6=688(LC 1)

FORCES.

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

TOP CHORD 1-2=-399/84, 2-3=-1312/118, 3-4=-1222/143, 4-5=-1318/115, 5-6=-400/68

BOT CHORD 2-9=-76/1214, 8-9=-42/1223, 5-8=-45/1220

WEBS 3-9=-115/294

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.

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.



May 14,2020

Job 400302	Truss A4	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMDBN0tjF5cDvSpwhp 06/11/2020	Ply 1	Lot 15 HT I41303170 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:44:37 2020 Page 1 1zCzbQ-X7zdPkFEVL8YAGWZ02CE3DprIG8SKLKM0Pig?tzGs6u
Wheeler Lumber, Waverly, KS 66871					
7-9-8 7-9-8		5x7 =		15-7-0 7-9-8	

Scale = 1:26.4

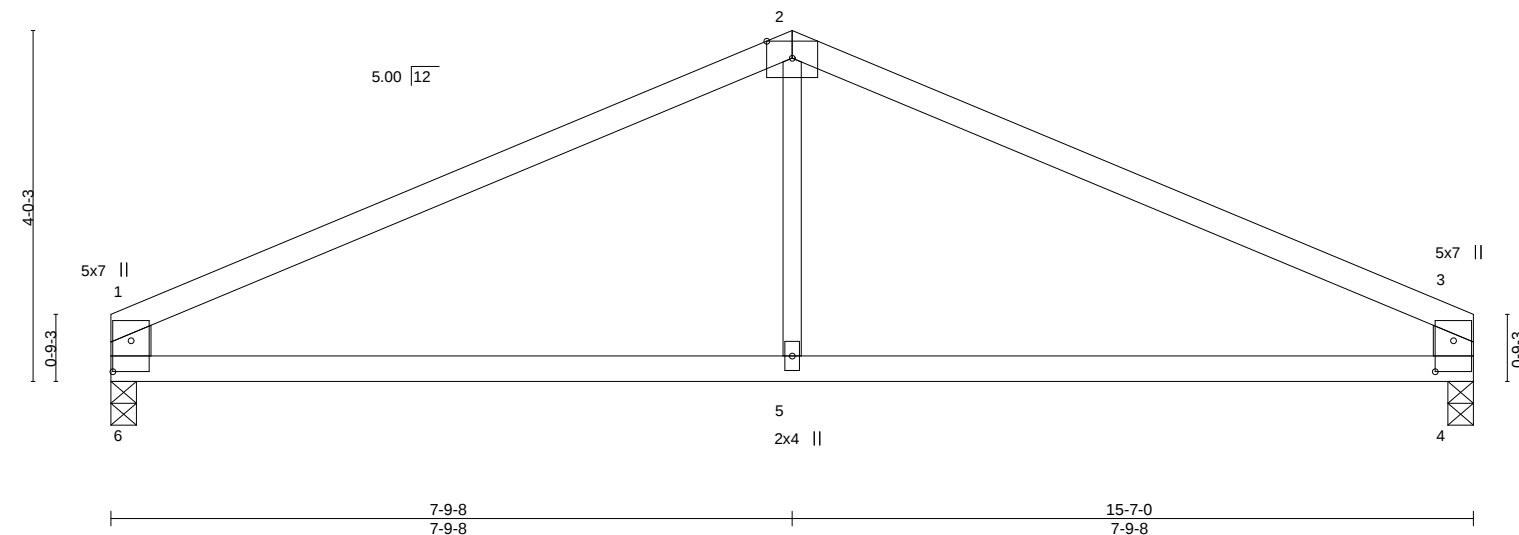


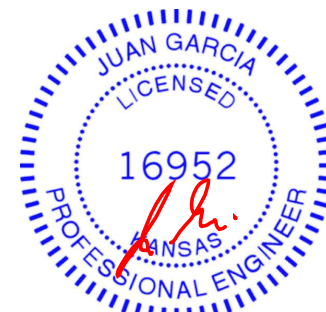
Plate Offsets (X,Y)--		[1:0-4-4,0-2-8], [3:0-4-4,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86
TCDL 10.0	Lumber DOL	1.15	BC 0.42
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.07 4-5 >999 360
			Vert(CT) -0.16 4-5 >999 240
			Horz(CT) 0.02 4 n/a n/a
			Wind(LL) 0.03 5-6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 41 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	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except*	
2-5: 2x3 SPF No.2	

REACTIONS.	(size) 6=0-3-8, 4=0-3-8
	Max Horz 6=-37(LC 13)
	Max Uplift 6=-86(LC 8), 4=-86(LC 9)
	Max Grav 6=681(LC 1), 4=681(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-928/114, 2-3=-928/114, 1-6=-594/134, 3-4=-594/134
BOT CHORD	5-6=-44/758, 4-5=-44/758
WEBS	2-5=0/306

- 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) 6, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

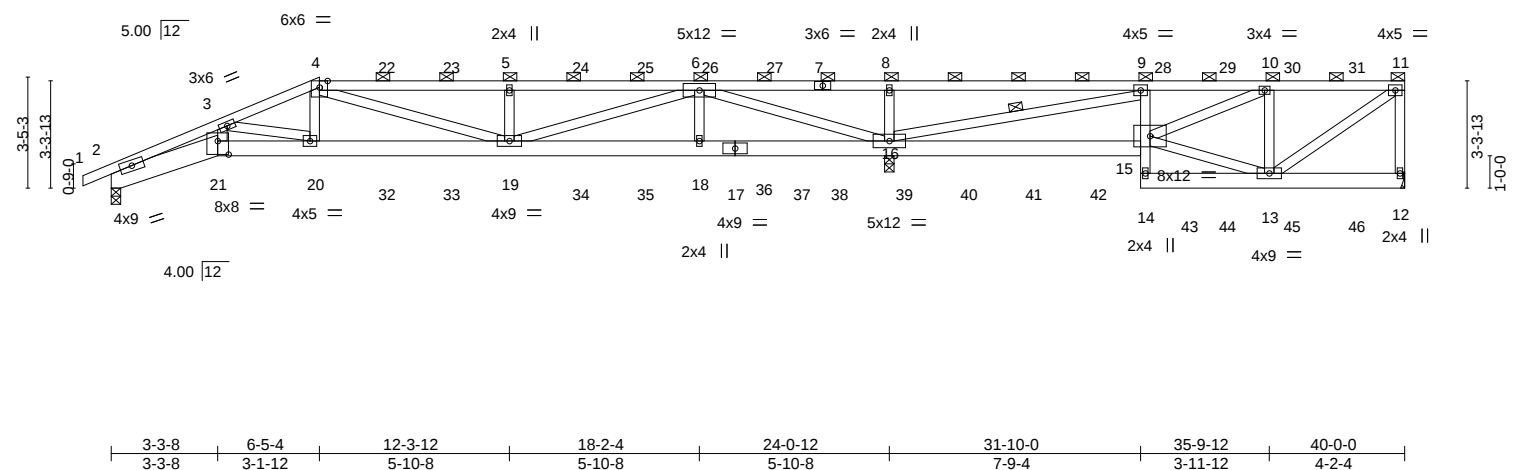
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Ply		Lot 15 HT
400302	B1	Half Hip Girder	2		I41303171
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
0-10-8 3-3-8 6-5-4 12-3-12 18-2-4 24-0-12 31-10-0 35-9-12 40-0-0			9 2020 MiTek Industries, Inc. Wed May 13 16:44:40 2020 Page 1		
0-10-8 3-3-8 3-1-12 5-10-8 5-10-8 5-10-8 7-9-4 3-11-12 4-2-4			ID: bWuMDBN0tjF5cDvSpwhrH1zCzbQ-xifm2mH7oGX71kF8hAlxhRMIT8kXWZpUNxKbCzGs6r		
			06/13/2020		

Scale = 1:71.3



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 0.85	Vert(LL)	-0.20	19	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.36	19-20	>798		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	0.13	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.11	19	>999		
								Weight: 413 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-10 max.): 4-11.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 2-21: 2x8 SP DSS, 9-14: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 9-16

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 16=0-3-8 (req. 0-3-12)
Max Horz 2=99(LC 26)
Max Uplift 12=-83(LC 4), 2=-102(LC 4), 16=-311(LC 5)
Max Grav 12=966(LC 20), 2=1813(LC 1), 16=4796(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6550/430, 3-4=-5177/324, 4-5=-5099/188, 5-6=-5096/187, 6-8=-167/3123, 8-9=-167/3123, 9-10=-1414/214, 10-11=-941/113, 11-12=-872/117
BOT CHORD 2-21=-472/5902, 20-21=-431/5452, 19-20=-342/4715, 18-19=-41/2182, 16-18=-41/2182, 15-16=-243/1520, 9-15=0/597
WEBS 3-21=-93/1278, 3-20=-674/109, 4-20=-55/1266, 4-19=0/553, 5-19=-788/173, 6-19=-192/3069, 6-18=0/272, 6-16=-5588/181, 8-16=-594/127, 9-16=-4688/383, 13-15=-86/877, 10-15=-134/516, 10-13=-759/207, 11-13=-100/1120

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 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); 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.
 - WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=102, 16=311.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contr to standard ANSI/TPI 1.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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 06/11/2020		Ply	Lot 15 HT
400302	B1	Half Hip Girder			2	I41303171

Wheeler Lumber, Waverly, KS 66871
240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:40 2020 Page 2
ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-xifm2mH7oGX71kF8hAlxhRMIT8kXWZpUNxKbCzGs6r

NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 51 lb up at 6-5-4, 103 lb down and 51 lb up at 8-6-0, 103 lb down and 51 lb up at 10-6-0, 103 lb down and 51 lb up at 12-6-0, 103 lb down and 51 lb up at 14-6-0, 103 lb down and 51 lb up at 16-6-0, 103 lb down and 51 lb up at 18-6-0, 103 lb down and 51 lb up at 20-6-0, 122 lb down and 70 lb up at 32-6-0, 122 lb down and 70 lb up at 34-6-0, and 122 lb down and 70 lb up at 36-6-0, and 122 lb down and 70 lb up at 38-6-0 on top chord, and 515 lb down and 123 lb up at 6-5-4, 89 lb down at 8-6-0, 89 lb down at 10-6-0, 89 lb down at 12-6-0, 89 lb down at 14-6-0, 89 lb down at 16-6-0, 89 lb down at 18-6-0, 89 lb down at 20-6-0, 255 lb down and 44 lb up at 22-6-0, 255 lb down and 44 lb up at 24-6-0, 255 lb down and 44 lb up at 26-6-0, 255 lb down and 44 lb up at 28-6-0, 255 lb down and 44 lb up at 30-6-0, 75 lb down at 32-6-0, 75 lb down at 34-6-0, and 75 lb down at 36-6-0, and 75 lb down at 38-6-0 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: 1-4=-70, 4-11=-70, 2-21=-20, 15-21=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 4=-98(F) 20=-515(F) 19=-89(F) 5=-98(F) 22=-98(F) 23=-98(F) 24=-98(F) 25=-98(F) 26=-98(F) 27=-98(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-122(F) 32=-89(F) 33=-89(F) 34=-89(F) 35=-89(F) 36=-89(F) 37=-89(F) 38=-255(F) 39=-255(F) 40=-255(F) 41=-255(F) 42=-255(F) 43=-58(F) 44=-58(F) 45=-58(F) 46=-58(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Ply		Lot 15 HT
400302	B2	Hip	1		I41303172
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
-0-10-8 3-3-8 8-5-4 16-2-3 24-0-12 31-10-0 36-6-12 40-0-0			9 2020 MiTek Industries, Inc. Wed May 13 16:44:41 2020 Page 1		
0-10-8 3-3-8 5-1-12 7-8-15 7-10-3 7-9-9 4-8-12 3-5-4			ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-Qvc8F5llZaf_fupKFuHAE3zYrtN5GzCjy1gt8ezGs6q		
			06/11/2020		

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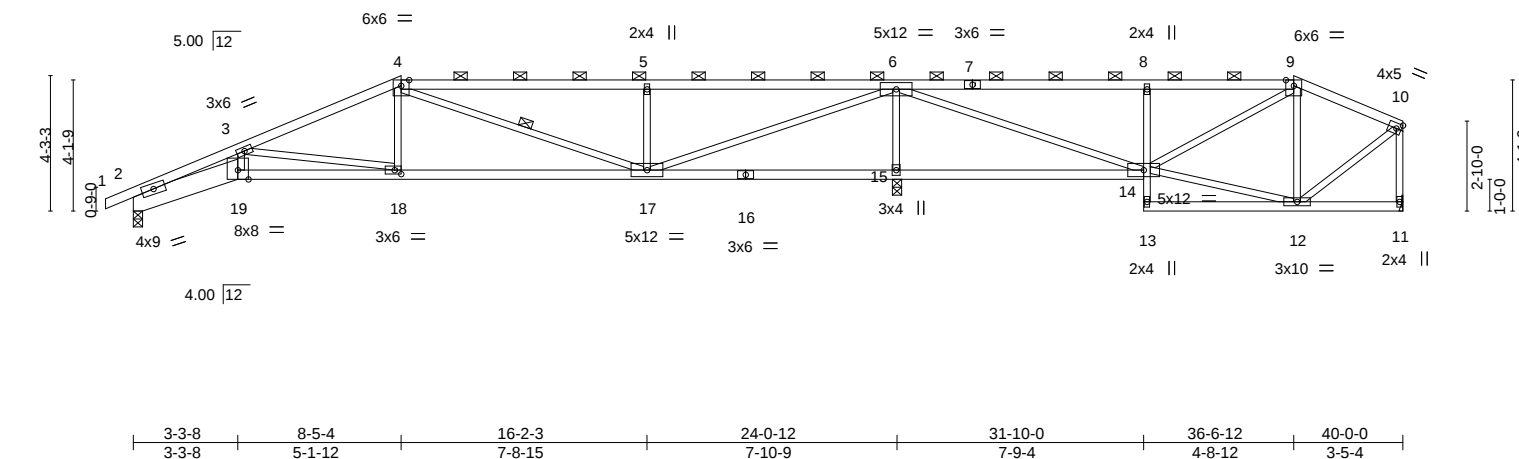


Plate Offsets (X,Y)-- [18:0-2-8,0-1-8]		3-3-8 8-5-4 16-2-3 24-0-12 31-10-0 36-6-12 40-0-0	
		3-3-8 5-1-12 7-8-15 7-10-9 7-9-4 4-8-12 3-5-4	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.20 18-19 >999 360
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.38 17-18 >759 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.13 15 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.11 18-19 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 150 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 4-9.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
2-19: 2x8 SP DSS, 8-13: 2x3 SPF No.2	WEBS 1 Row at midpt 4-17
WEBS 2x3 SPF No.2	

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 15=0-3-8
Max Horz 2=86(LC 7)
Max Uplift 2=-22(LC 4), 11=-11(LC 4), 15=-100(LC 5)
Max Grav 2=984(LC 19), 11=509(LC 20), 15=2199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3580/80, 3-4=-1804/44, 4-5=-1218/95, 5-6=-1216/93, 6-8=-525/74, 8-9=-505/76, 9-10=-385/43, 10-11=-484/25
BOT CHORD 2-19=-140/3239, 18-19=-129/2963, 17-18=-59/1624, 15-17=-1176/52, 14-15=-1176/52, 8-14=-471/113
WEBS 3-19=0/1012, 3-18=-1345/128, 4-18=0/422, 4-17=-438/34, 5-17=-581/137, 6-17=-113/2539, 6-15=-2008/199, 6-14=-88/1679, 12-14=0/308, 10-12=0/398

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 15.
 - This truss 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.



May 14, 2020

Job
400302

Truss
B3

Truss Type
Hip

Wheeler Lumber,
Waverly, KS 66871

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:44:43 2020 Page 1

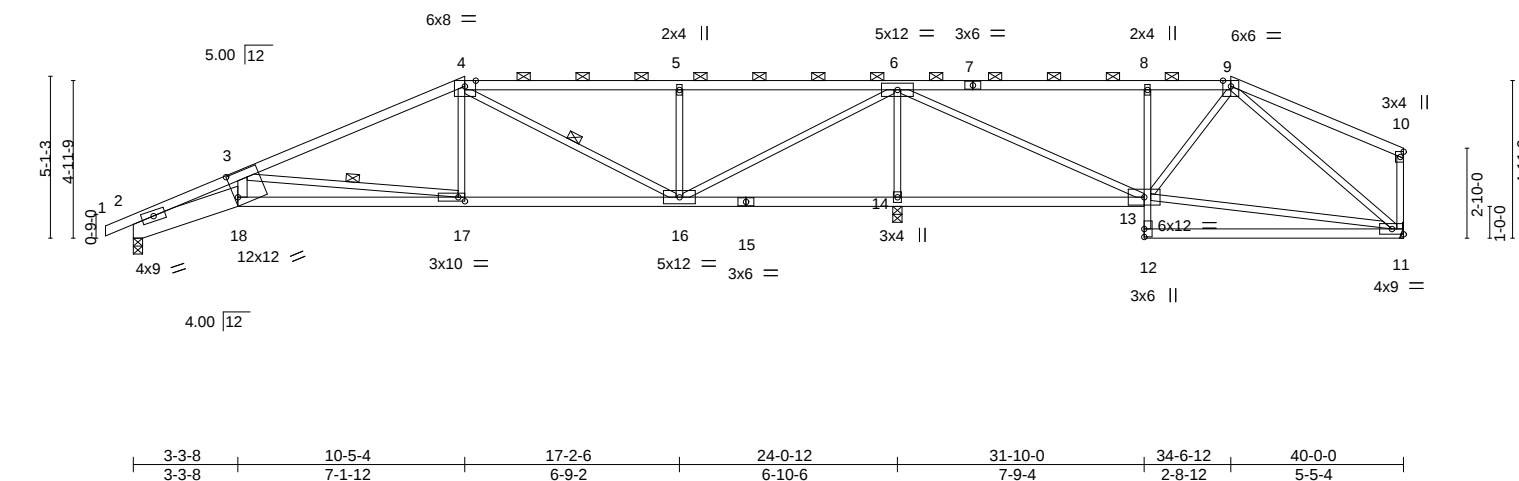
141303173

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0-10-8 3-3-8 7-1-12 6-9-2 6-10-6 7-9-4 2-8-12 5-5-4

06/11/2020

Scale = 1:72.6



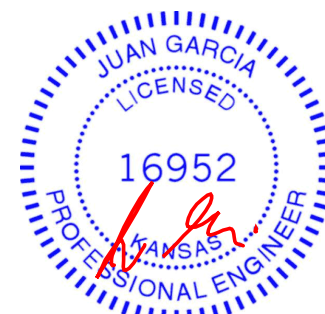
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.23 17-18 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.45 17-18 >632				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.15 14 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12 17-18 >999 240				
								Weight: 156 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt 3-17, 4-16
	3-18: 2x4 SPF No.2		

REACTIONS.	
(size)	2=0-3-8, 14=0-3-8 (req. 0-3-11), 11=Mechanical
Max Horz	2=87(LC 7)
Max Uplift	2=-19(LC 8), 14=-92(LC 5), 11=-13(LC 9)
Max Grav	2=931(LC 19), 14=2341(LC 1), 11=473(LC 20)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3575/100, 3-4=-1357/42, 4-5=-580/88, 5-6=-577/87, 6-8=-331/75, 8-9=-314/76
BOT CHORD	2-18=-124/3261, 17-18=-125/2932, 16-17=-26/1164, 14-16=-1293/49, 13-14=-1293/49, 8-13=-442/105
WEBS	3-18=0/1042, 3-17=-1771/188, 4-17=0/438, 4-16=-767/36, 5-16=-493/115, 6-16=-76/2018, 6-14=-2161/188, 6-13=-65/1565, 9-11=-333/25

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.
 - WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 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.



May 14,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Ply	Lot 15 HT	I41303174
400302	B4	Hip	ID: bWuMDBN0tjF5cDvSpwph			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:44 2020 Page 1						
3-3-8 6-9-2 12-5-4 18-2-6 24-0-12 31-10-0 32-6-12 40-0-0		1zCzbQ-qUuGt7LdsV1ZWLYvw0qtrhb0q4Q7TKWOP?vXkzzGs6n						
3-3-8 3-5-9 5-8-2 5-9-2 5-10-6 7-9-4 0-8-12 7-5-4								

06/13/2020

Scale = 1:70.9

Scale = 1:70.9

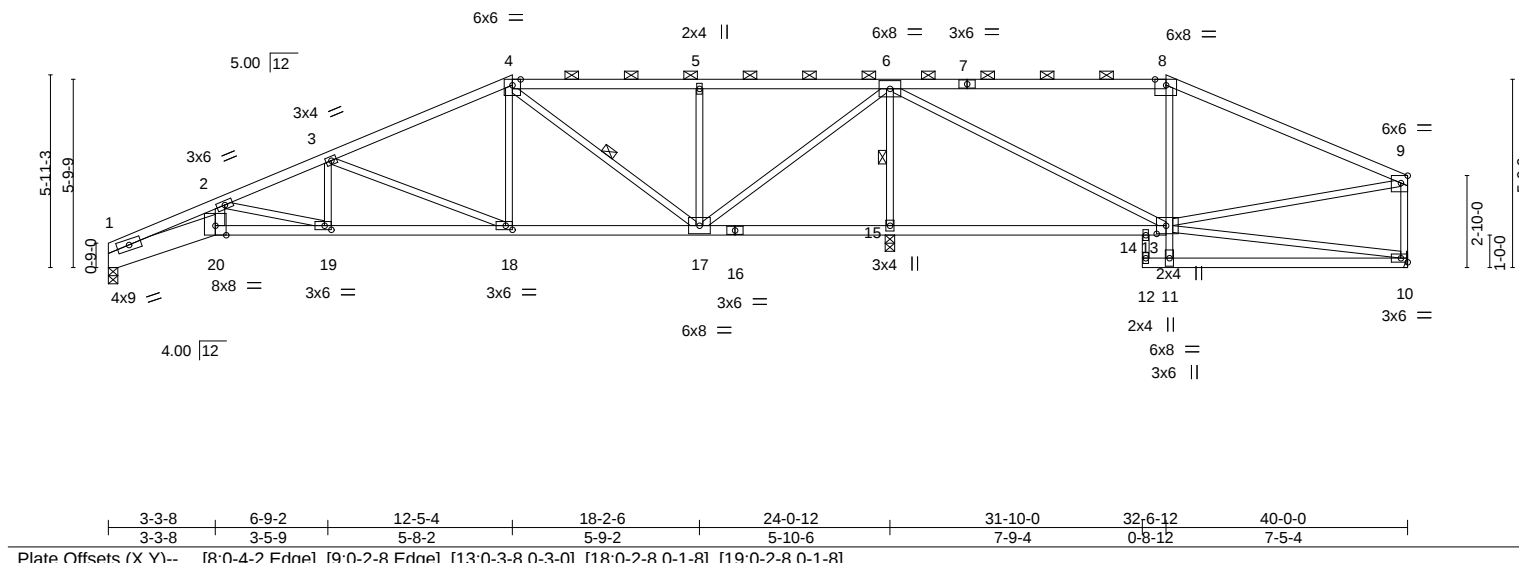


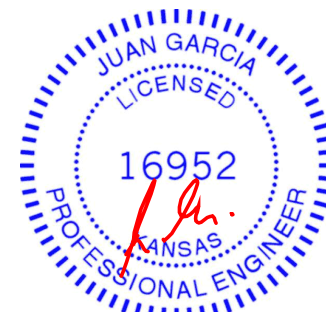
Plate Offsets (X,Y)--		[8:0-4-2,Edge], [9:0-2-8,Edge], [13:0-3-8,0-3-0], [18:0-2-8,0-1-8], [19:0-2-8,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.15 19-20	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.27 19-20	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.11 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08 19-20	>999	240	Weight: 159 lb	FT = 10%

LUMBER-	BRACING-	
TOP CHORD 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-14 max.): 4-8.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 5-4-12 oc bracing.
1-20: 2x8 SP DSS, 12-14: 2x3 SPF No.2	WEBS	1 Row at midpt 4-17, 6-15
WEBS 2x3 SPF No.2 *Except*		
2-20: 2x4 SPF No.2		

REACTIONS. (size) 1=0-3-8, 10=Mechanical, 15=0-3-8 (req. 0-3-11)
 Max Horz 1=86(LC 7)
 Max Uplift 1=-16(LC 8), 10=-29(LC 9), 15=-72(LC 5)
 Max Grav 1=849(LC 19), 10=485(LC 20), 15=2360(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3259/106, 2-3=-1857/57, 3-4=-989/55, 4-5=-294/87, 5-6=-292/85, 6-8=-325/67, 8-9=-441/72, 9-10=-429/64
 BOT CHORD 1-20=-133/2940, 19-20=-121/2643, 18-19=-42/1708, 17-18=-12/833, 15-17=-1087/59, 14-15=-1087/59, 13-14=-1062/88, 12-14=-343/0
 WEBS 2-20=-7/934, 2-19=-966/81, 3-18=-933/100, 4-18=0/472, 4-17=-823/35, 5-17=-384/89, 6-17=-35/1607, 6-15=-2198/157, 6-13=-6/1387, 11-13=0/544, 8-13=-492/105, 9-13=-54/271, 3-19=0/339

- 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.
 - WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 15.
 - This truss 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
400302

Truss
C1

Truss Type
Hip

Wheeler Lumber,
Waverly, KS 66871

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

ID: bWuMDBN0tjF5cdvSpwhpH1zCzbQ-IgSf5TLFdo9Q8V75UKL6Ou8HSUKUClgYefe5HQzGs6m

06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:44:45 2020 Page 1

3-1-1
3-1-1

8-5-4
5-4-4

13-3-3
4-9-15

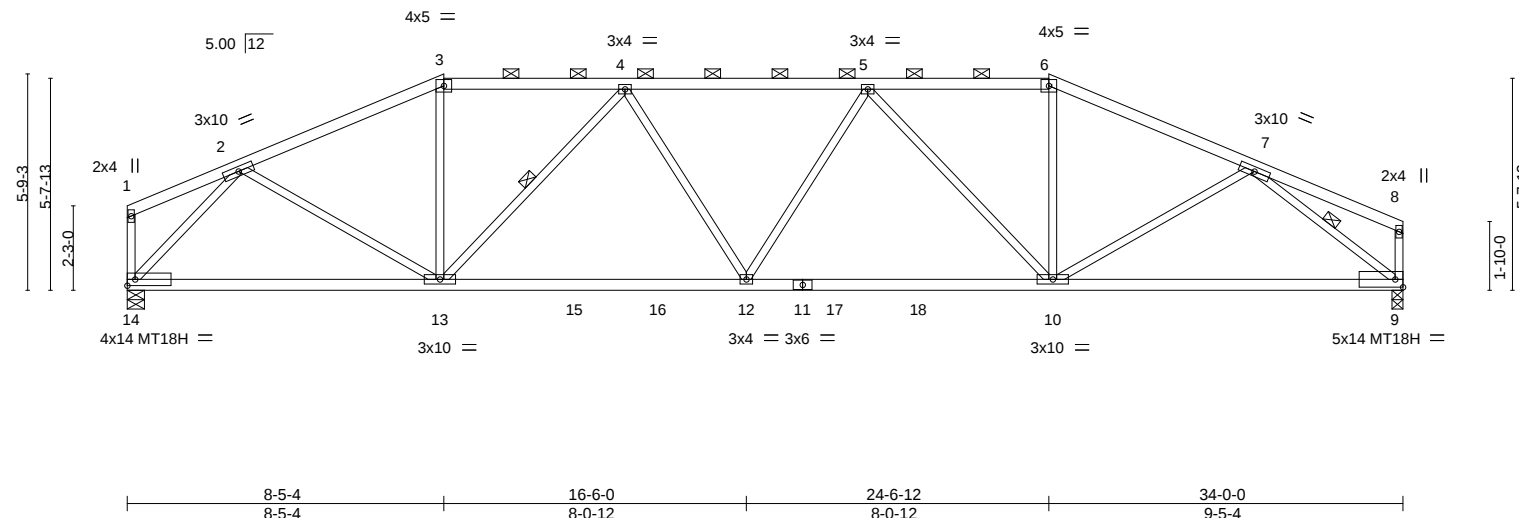
18-8-13
6-5-10

24-6-12
4-9-15

29-11-0
5-4-5

34-0-0
4-1-0

Scale = 1:61.4



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 0.53	Vert(LL)	-0.20 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.36 12-13	>999	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10 12	>999	240		
								Weight: 129 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

9-11: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2

BRACING-

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

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 4-13, 7-9

REACTIONS. (size) 14=0-5-8, 9=0-3-8

Max Horz 14=-70(LC 6)

Max Uplift 14=-184(LC 4), 9=-178(LC 5)

Max Grav 14=1597(LC 2), 9=1595(LC 2)

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

TOP CHORD 2-3=-2137/304, 3-4=-1912/300, 4-5=-2557/403, 5-6=-2060/319, 6-7=-2298/324

BOT CHORD 13-14=-189/1300, 12-13=-341/2434, 10-12=-349/2493, 9-10=-250/1689

WEBS 2-13=-31/764, 3-13=-18/555, 4-13=-842/191, 4-12=0/281, 5-10=-737/178, 6-10=-23/602, 7-10=0/538, 2-14=-1886/303, 7-9=-2079/328

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=184, 9=178.
 - This truss 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.



May 14,2020

Job

400302

Truss

C2

Truss Type

Hip

Lot

15 HT

Release for Construction

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

1

1

Wheeler Lumber,

Waverly, KS 66871

240 s Mar

9 2020 MiTek Industries, Inc.

Wed May 13 16:44:46 2020

Page 1

ID:bWuM

DBN0tjF5cDvSpwhpH1zCzbQ-ms01IpMtO6HHfil2RsLw6hP_u77xGohtJOepszGs6l

34-0-0

1-6-0

0-3-8

Scale = 1:61.8

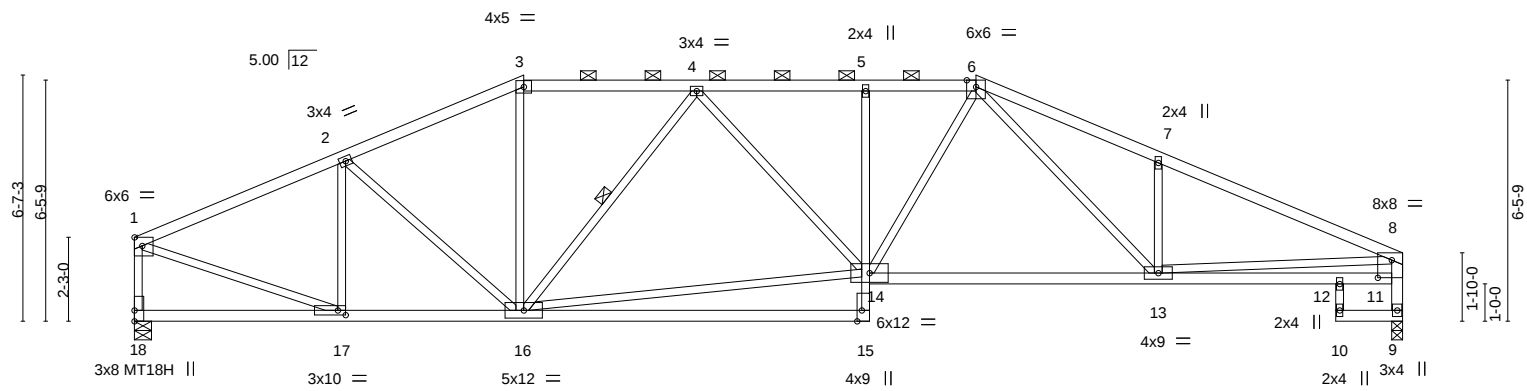


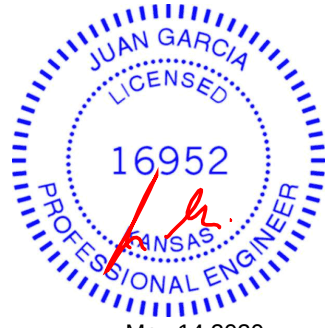
Plate Offsets (X,Y)--		[1:Edge,0-2-12], [8:0-4-8,0-5-11], [11:0-0-0,0-1-12], [15:0-3-8,Edge], [17:0-2-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74
TCDL 10.0	Lumber DOL	1.15	BC 0.77
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.25 15-16 >999 360
			Vert(CT) -0.55 15-16 >734 240
			Horz(CT) 0.11 9 n/a n/a
			Wind(LL) 0.14 13-14 >999 240
			PLATES GRIP
			MT20 197/144
			MT18H 197/144
			Weight: 144 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 (3-6-14 max.): 3-6.
BOT CHORD 2x4 SPF No.2 *Except* 5-15,10-12: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12,9-10.
WEBS 2x3 SPF No.2 *Except* 8-9: 2x4 SPF 2100F 1.8E	WEBS 1 Row at midpt 4-16

REACTIONS. (size) 18=0-5-8, 9=0-3-8
Max Horz 18=-68(LC 4)
Max Uplift 18=-159(LC 4), 9=-154(LC 5)
Max Grav 18=1519(LC 1), 9=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1881/230, 2-3=-1989/290, 3-4=-1777/284, 4-5=-2422/386, 5-6=-2437/387, 6-7=-2771/391, 7-8=-2792/316, 1-18=-1460/188, 9-11=-1467/168, 8-11=-1437/185
BOT CHORD 16-17=-177/1676, 5-14=-309/116, 13-14=-245/2169, 12-13=-100/595, 11-12=-94/667
WEBS 2-17=-516/119, 2-16=0/290, 3-16=-18/447, 4-16=-817/183, 14-16=-286/2101, 4-14=-25/363, 6-14=-75/650, 6-13=-170/507, 7-13=-401/229, 8-13=-186/1912, 1-17=-192/1731

- 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) except (jt=lb) 18=159, 9=154.
 - This truss 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.



May 14,2020

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020			Ply	Lot 15 HT	I41303177	
400302	C3	Hip	1			1	Job Reference (optional)		
Wheeler Lumber, Waverly, KS 66871			240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:48 2020 Page 1						
			ID:bWuMDBN0tjF5cDv\$pwph1zCzbQ-iF8njVO8wjX??zsg9svp0XmiVhlRPBc_KdtltkzGs6j						
			5-6-11			12-5-4	34-0-0		
			5-6-11			6-10-10	33-8-8		
			7-3-4			0-10-4	1-6-0		
						27-5-4	32-2-8		
						6-10-9	4-9-4		
							0-3-8		
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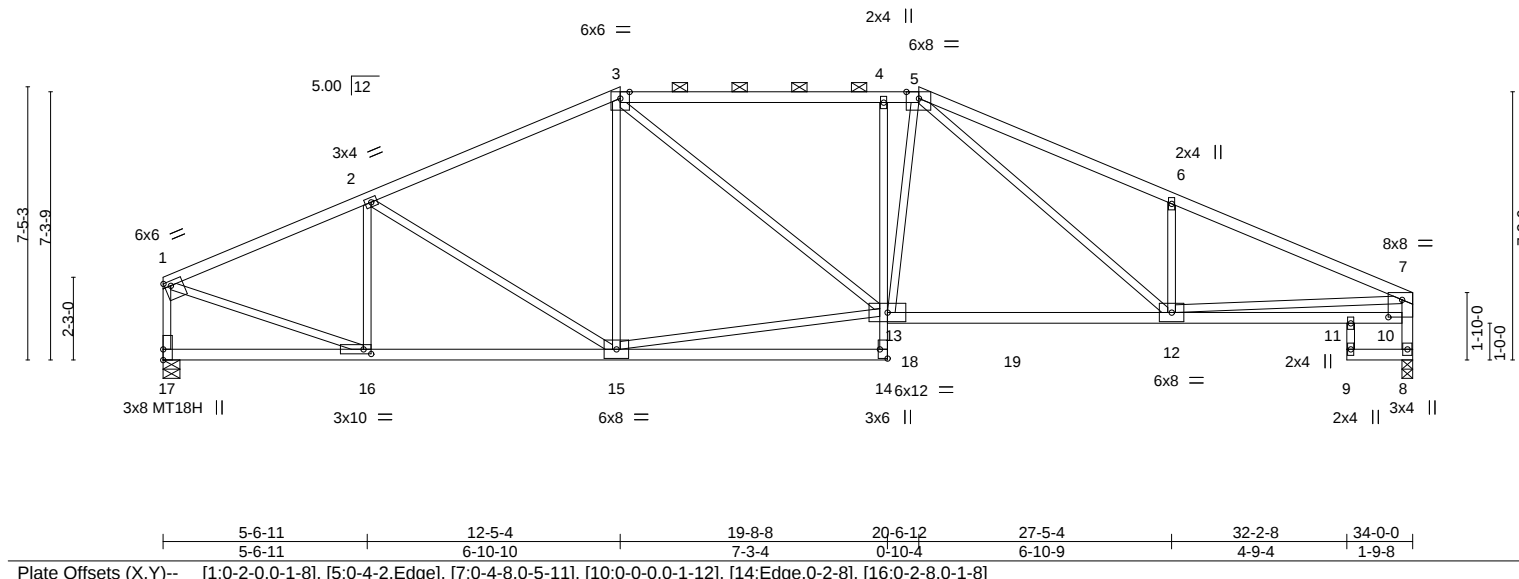


Plate Offsets (X, Y)--		[1:0-2-0,0-1-8], [5:0-4-2,Edge], [7:0-4-8,0-5-11], [10:0-0-0,0-1-12], [14:Edge,0-2-8], [16:0-2-8,0-1-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.93	Vert(LL) -0.30	12-13 >999 360
BC 0.97	Vert(CT) -0.53	12-13 >766 240
WB 0.70	Horz(CT) 0.10	8 n/a n/a
Matrix-S	Wind(LL) 0.12	12-13 >999 240
PLATES	GRIP	
MT20	197/144	
MT18H	197/144	
Weight: 143 lb	FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2 *Except*	2-0-0 oc purlins (2-2-0 max.): 3-5.
4-14,9-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	
2x3 SPF No.2 *Except*	
7-8: 2x4 SPF 2100F 1.8E	

REACTIONS. (size) 17=0-5-8, 8=0-3-8
 Max Horz 17=-67(LC 4)
 Max Uplift 17=-154(LC 8), 8=-163(LC 9)
 Max Grav 17=1577(LC 2), 8=1610(LC 2)

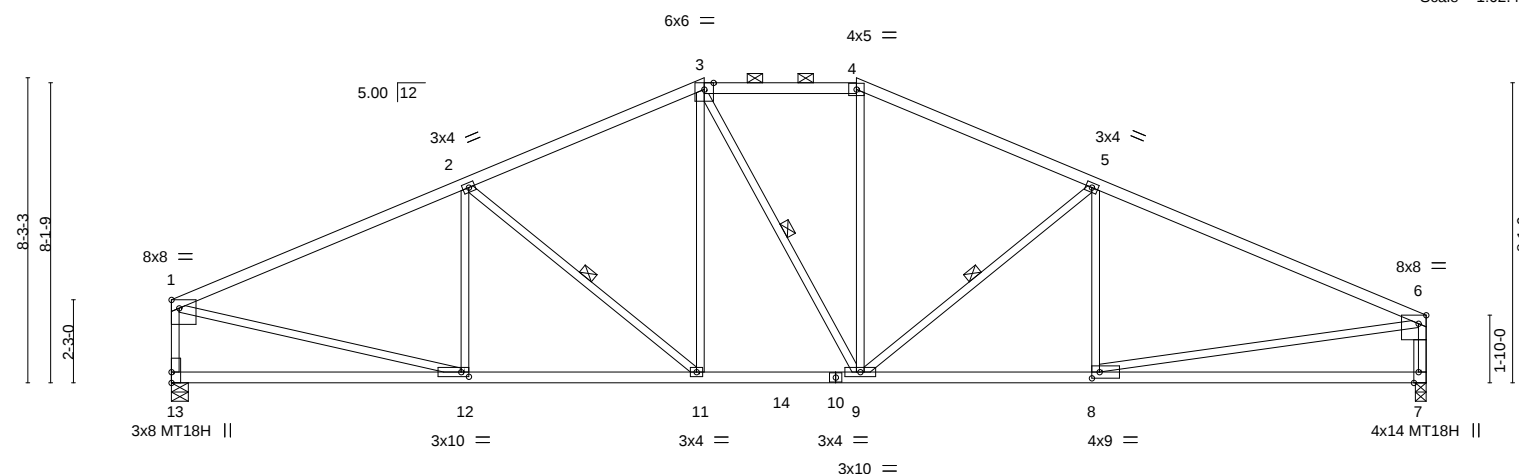
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1964/197, 2-3=-2024/259, 3-4=-2238/324, 4-5=-2242/320, 5-6=-2937/413,
 6-7=-2943/284, 1-17=-1492/179, 8-10=-1537/177, 7-10=-1466/194
 BOT CHORD 15-16=-182/1769, 4-13=-546/214, 12-13=-172/2159, 11-12=-94/621, 10-11=-91/705
 WEBS 2-16=-489/133, 13-15=-123/1781, 3-13=-93/657, 5-13=-112/713, 5-12=-228/688,
 6-12=-465/261, 7-12=-160/2043, 1-16=-160/1839

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=154, 8=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.



May 14, 2020

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 15 HT		I41303178
400302		C4	Hip	1			Job Reference (optional)		
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		7-11-7		14-5-4		18-6-13		25-0-8	
		7-11-7		6-5-13		06/19/2020		34-0-0	
								8-11-8	



	7-11-7	14-5-4	18-6-12	25-0-8	34-0-0
	7-11-7	6-5-13	4-1-8	6-5-13	8-11-8
Plate Offsets (X,Y)--	[1:Edge,0-2-12], [6:0-2-8,Edge], [7:0-3-8,Edge], [8:0-2-8,0-2-0], [12:0-2-8,0-1-8]				

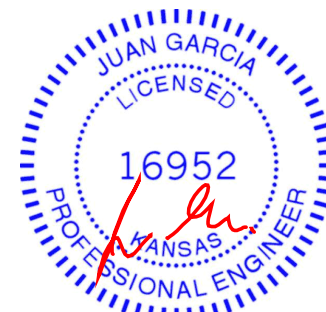
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.18	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.38	7-8	>999	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07	8-9	>999	240	Weight: 137 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
3-4: 2x4 SPF No.2	2-0-0 oc purlins (4-4-7 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	WEBS 1 Row at midpt 2-11, 3-9, 5-9

REACTIONS. (size) 13=0-5-8, 7=0-3-8
 Max Horz 13=-64(LC 4)
 Max Uplift 13=-172(LC 8), 7=-181(LC 9)
 Max Grav 13=1581(LC 2), 7=1578(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2146/232, 2-3=-1907/229, 3-4=-1701/255, 4-5=-1932/245, 5-6=-2338/261,
 1-13=-1455/211, 6-7=-1435/226
 BOT CHORD 11-12=-201/1910, 9-11=-69/1682, 8-9=-176/2076
 WEBS 2-12=-287/134, 2-11=-366/177, 3-11=-55/417, 4-9=-31/440, 5-9=-526/204,
 1-12=-136/1869, 6-8=-129/1925

- 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=172, 7=181.
 - This truss 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.



May 14, 2020

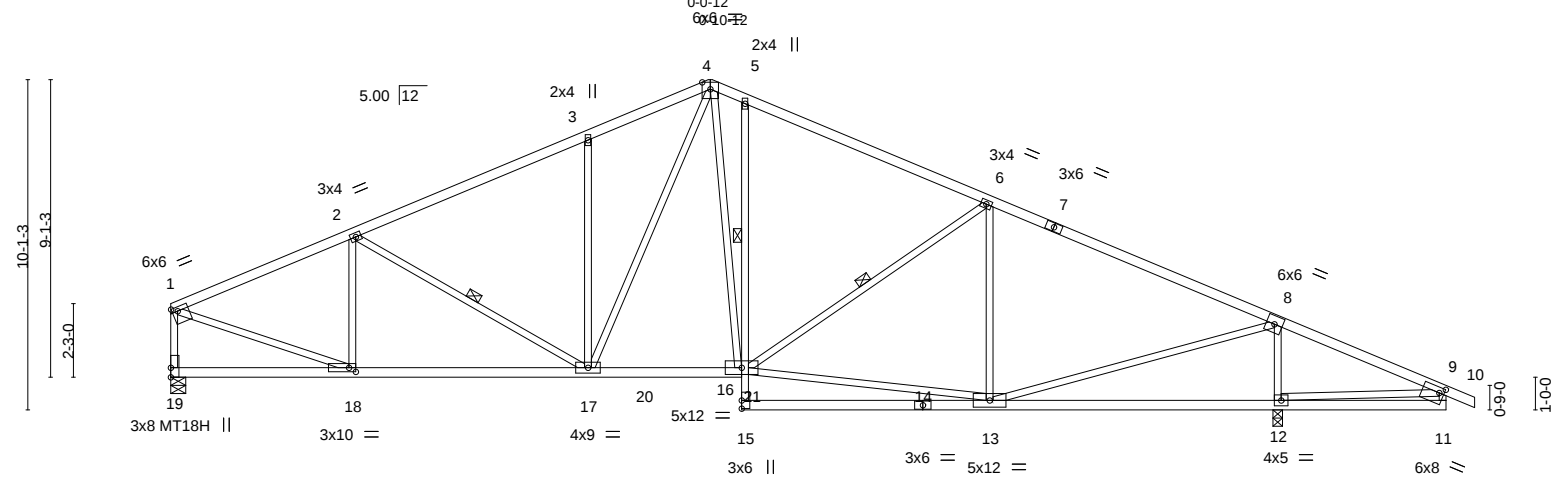
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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:bWuMDbN0tjF5cDvSpwphH1zCzbQ-fdFX8APORLnIEG?3HHxH5yr4cVWpt5HHnxMsydzGs6h 06/11/2020			Lot 15 HT	I41303179
400302	C5	Hip				Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871						9 2020 MiTek Industries, Inc. Wed May 13 16:44:50 2020 Page 1 1240 s Mar 11zCzbQ-fdFX8APORLnIEG?3HHxH5yr4cVWpt5HHnxMsydzGs6h	
5-6-10 5-6-10		12-9-2 7-2-8	16-5-4 3-8-2	16-6-12 16-6-0 0-0-12	25-0-8 7-7-0	33-10-4 8-9-12	39-0-0 5-1-12
				0-0-12 0-0-12			39-10-8 0-10-8 Scale = 1:70.5



	5-6-10 5-6-10	11-0-5 5-5-11	16-6-0 5-5-11	17-5-8 0-11-8	25-0-8 7-7-0	33-10-4 8-9-12	34-0-0 0-1-12	39-0-0 5-0-0
Plate Offsets (X,Y)--	[1:0-2-0,0-1-8], [11:0-1-2,0-0-8], [11:0-1-12,0-2-0], [18:0-2-8,0-1-8]							

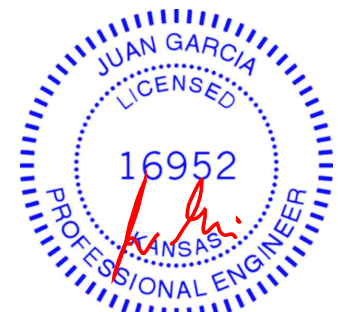
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.15 13-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.29 13-15	>999	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.06 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08 16-17	>999	240		
								Weight: 169 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* 5-15: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13,11-12.
WEBS	2x3 SPF No.2		1 Row at midpt 5-16
		WEBS	1 Row at midpt 2-17, 6-16

REACTIONS.	(size) 19=0-5-8, 12=0-3-8
	Max Horz 19=-190(LC 9)
	Max Uplift 19=-187(LC 8), 12=-310(LC 9)
	Max Grav 19=1537(LC 2), 12=2145(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1916/240, 2-3=-1928/259, 3-4=-1903/362, 4-5=-1711/336, 5-6=-1747/258, 6-8=-1787/239, 8-9=-176/514, 1-19=-1457/210
BOT CHORD	17-18=-218/1725, 16-17=-28/1439, 5-16=-423/222, 12-13=-386/186
WEBS	2-18=-460/152, 3-17=-432/223, 4-17=-222/721, 4-16=-268/777, 6-13=-569/162, 8-13=-161/2007, 8-12=-1882/390, 1-18=-189/1795, 9-12=-339/193, 13-16=-49/1466

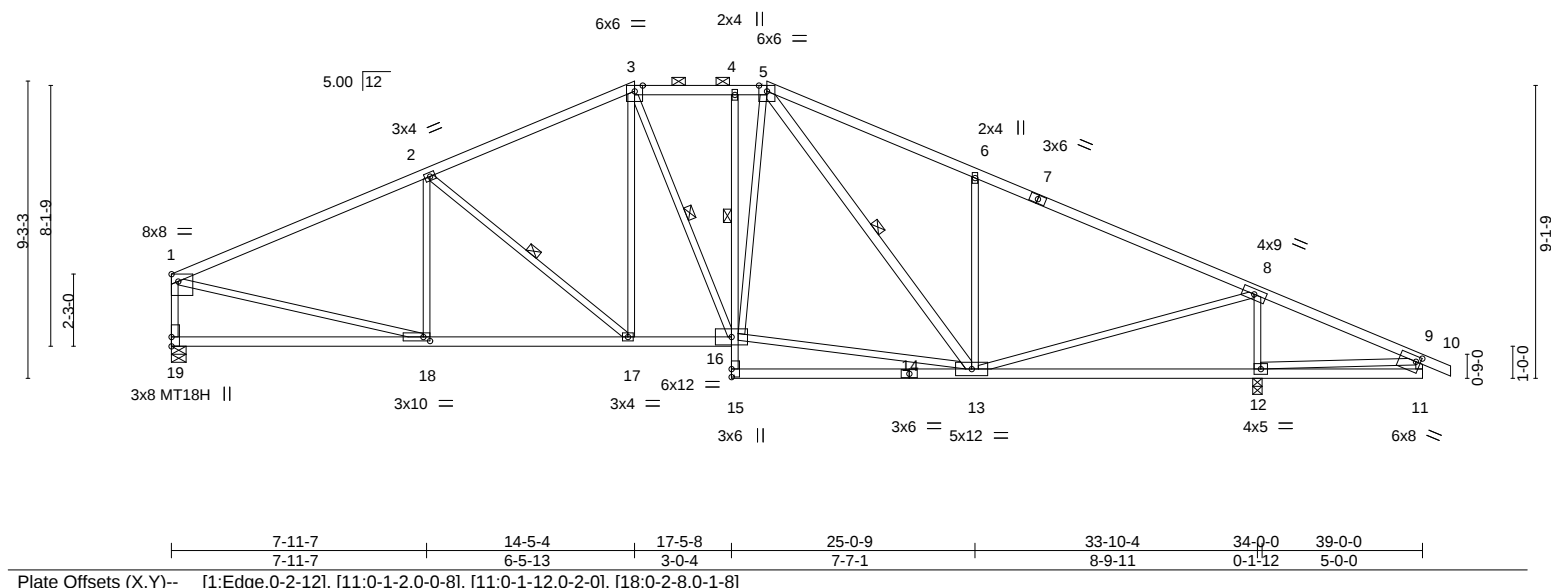
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=187, 12=310.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14,2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDBN0tjF5cDvSpwH1zCzbQ-b0NIZsRezy1QTa9SOizIANxQLJDHL_9aFFry0WzGs6f 06/11/2020					Ply	Lot 15 HT	I41303180
400302	C6	Hip						1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:52 2020 Page 1								
7-11-7 7-11-7		14-5-4 6-5-13	17-5-8 3-0-4	18-6-12 1-1-4	25-0-9 6-5-14	33-10-4 8-9-11	39-0-0 5-1-12	39-10-8 0-10-8		

Scale = 1:71.8



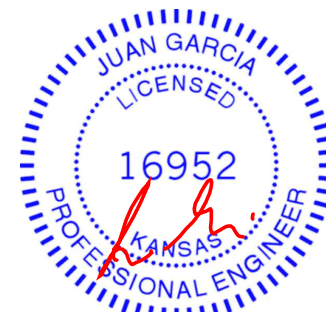
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.12 18-19	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.25 18-19	>999	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.05 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 17-18	>999	240	Weight: 174 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-3: 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 (4-7-4 max.): 3-5.
BOT CHORD 2x4 SPF No.2 *Except* 4-15: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13, 11-12.
WEBS 2x3 SPF No.2 *Except* 5-13: 2x4 SPF No.2	WEBS 1 Row at midpt 4-16 1 Row at midpt 2-17, 3-16, 5-13

REACTIONS. (size) 19=0-5-8, 12=0-3-8
 Max Horz 19=-173(LC 9)
 Max Uplift 19=-171(LC 8), 12=-296(LC 9)
 Max Grav 19=1474(LC 1), 12=2086(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2003/231, 2-3=-1748/228, 3-4=-1529/227, 4-5=-1524/226, 5-6=-1695/356,
 6-8=-1720/214, 8-9=-175/511, 1-19=-1399/210
 BOT CHORD 17-18=-166/1763, 16-17=-29/1519, 12-13=-383/185
 WEBS 2-18=-271/134, 2-17=-374/177, 3-17=-55/350, 13-16=-19/1382, 5-16=-18/447,
 6-13=-561/296, 8-13=-167/1938, 8-12=-1883/375, 1-18=-135/1723, 9-12=-331/189

- 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) except (jt=lb) 19=171, 12=296.
 - This truss 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss C7	Truss Type Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020		Lot 15 HT Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:44:53 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhH1zCzbQ-3CxmCSGkG9H5kkeyPU_jaTf4iYZ4TgjUvaWZyzGs6e
Wheeler Lumber, Waverly, KS 66871					

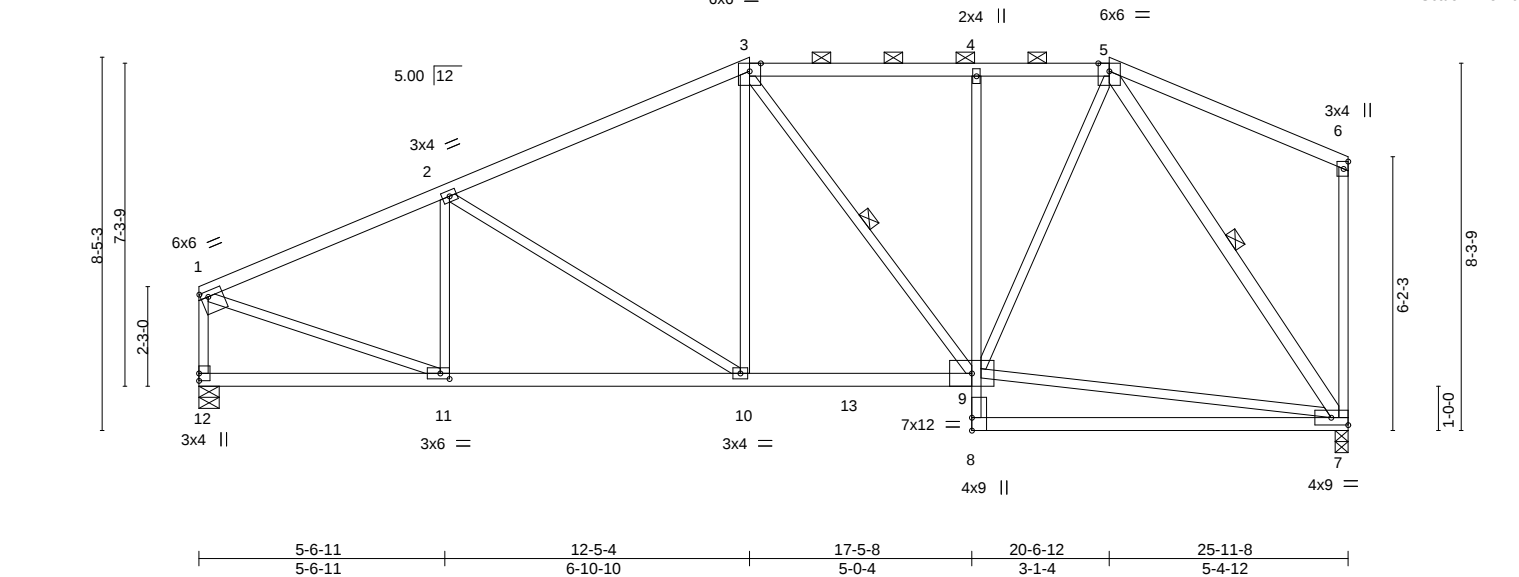


Plate Offsets (X,Y)--		[1:0-2-0,0-1-8], [7:Edge,0-2-0], [11:0-2-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55
TCDL 10.0	Lumber DOL	1.15	BC 0.59
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.20 7-8 >999 360
			Vert(CT) -0.40 7-8 >776 240
			Horz(CT) 0.04 7 n/a n/a
			Wind(LL) 0.04 10 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 123 lb FT = 10%

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

REACTIONS.	(size) 12=0-5-8, 7=0-3-8
	Max Horz 12=228(LC 7)
	Max Uplift 12=-140(LC 8), 7=-140(LC 5)
	Max Grav 12=1208(LC 2), 7=1210(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1459/177, 2-3=-1324/198, 3-4=-993/208, 4-5=-988/208, 1-12=-1127/164
BOT CHORD	10-11=-244/1303, 9-10=-206/1145, 4-9=-336/135
WEBS	2-11=-318/127, 3-10=-2/368, 3-9=-286/81, 7-9=-198/550, 5-9=-87/865, 1-11=-130/1348, 5-7=-1177/215

- 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) except (jt=lb) 12=140, 7=140.
 - This truss 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.



May 14, 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 15 HT	I41303182	
400302	D1	Hip	ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-XPV2_YSvVZH8juJqW70DFo0n06p3prutiZK35OzGs6d			1	Job Reference (optional)		
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:54 2020 Page 1							
3-11-14		11-1-4		16-5-4		22-6-0		28-6-12	
3-11-14		7-1-6		5-4-0		6-0-12		6-0-12	
		06/11/2020						31-11-8	
								3-4-12	

Scale = 1:55.9

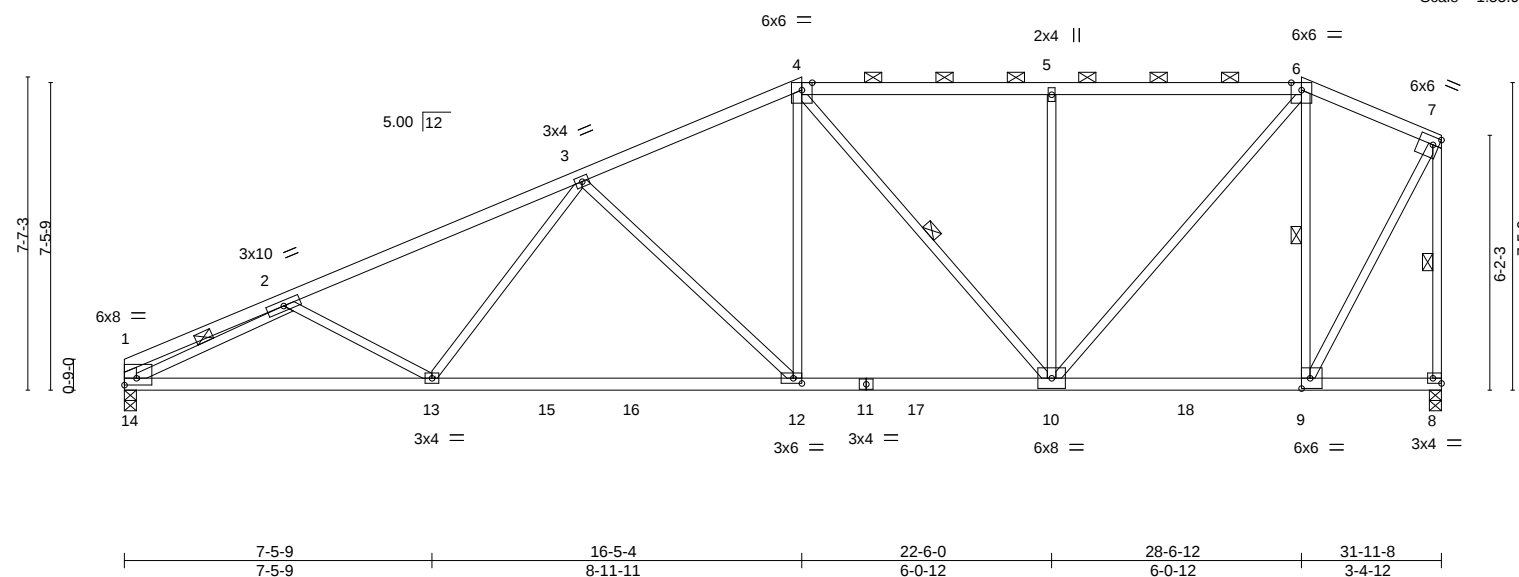


Plate Offsets (X,Y)--		[1:0-1-12,0-0-12], [1:Edge,0-2-0], [7:Edge,0-2-4], [8:Edge,0-1-8], [9:0-2-8,0-3-0], [12:0-2-8,0-1-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.28 12-13 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49 12-13 >771 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.08 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.10 12-13 >999 240	Weight: 134 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-14: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-5 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-10, 6-9, 2-14, 7-8

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=253(LC 5)
Max Uplift 14=-184(LC 8), 8=-197(LC 5)
Max Grav 14=1512(LC 2), 8=1539(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-438/23, 2-3=-2701/308, 3-4=-1941/279, 4-5=-1461/277, 5-6=-1461/277, 6-7=-710/165, 7-8=-1514/203
BOT CHORD 13-14=-452/2458, 12-13=-335/2182, 10-12=-266/1724, 9-10=-141/653
WEBS 3-13=0/414, 3-12=-640/246, 4-12=-80/763, 4-10=-422/103, 5-10=-516/208, 6-10=-186/1265, 6-9=-975/239, 2-14=-2385/382, 7-9=-184/1343

- 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) except (jt=lb) 14=184, 8=197.
 - This truss 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.



May 14, 2020

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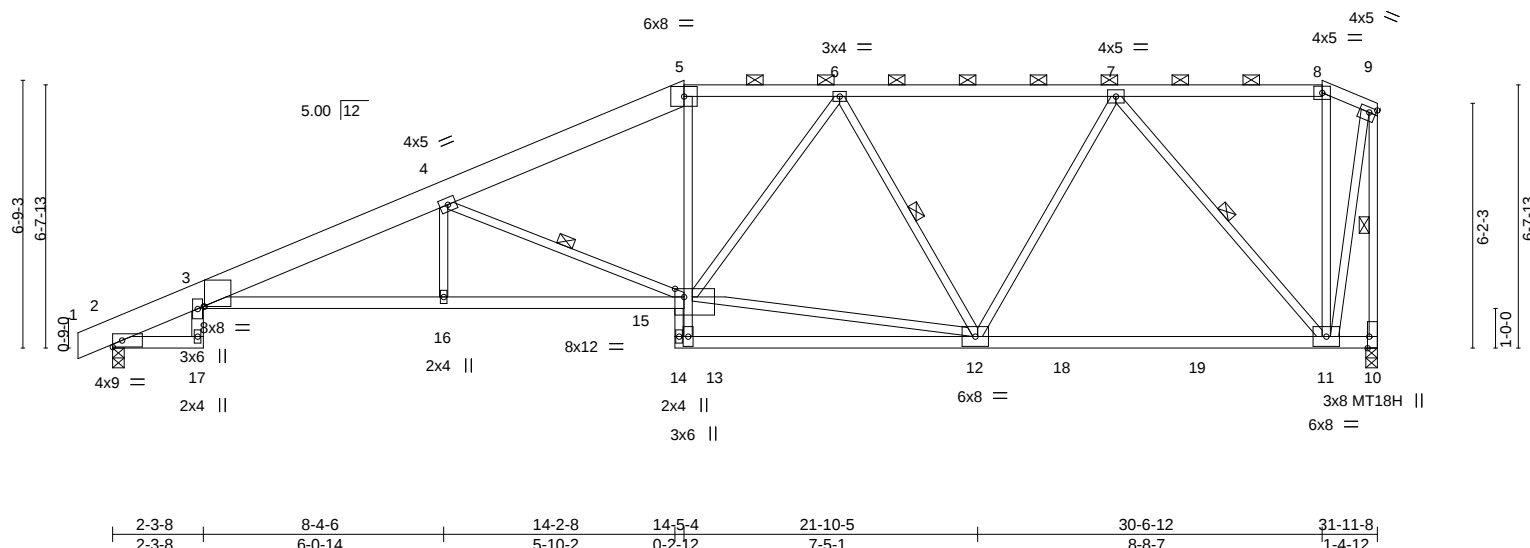
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job Reference (optional)

8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:22 2020 Page 1
1zC7bQ-vO9kkIZVA4nWQkCSOHahpZBQwU4FA 0TH3uzvzGbE7

0-10-8 2-3-8 8-4-6 14-5-4 18-4-7 25-4-3 30-6-12 31-11-8
0-10-8 2-3-8 6-0-14 6-0-14 06/11/2020 6-11-12 5-2-9 1-4-12

Scale = 1:58.2



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-5: 2x8 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-12 max.): 5-8.
BOT CHORD	2x4 SPF No.2 *Except* 3-15: 2x4 SPF 2100F 1.8E, 14-15: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.
WEBS	2x3 SPF No.2 *Except* 3-17: 2x4 SPF No.2	WEBS	1 Row at midpt 4-15, 6-12, 7-11, 9-10

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

TOP CHORD 2-3=-807/47, 3-4=-3643/406, 4-5=-2483/345, 5-6=-2186/338, 6-7=-1632/281,
7-8=-327/103, 8-9=-372/112, 9-10=-1665/192

BOT CHORD 3-16=-551/3522, 15-16=-549/3516, 14-15=-529/0, 12-18=-270/1235, 18-19=-270/1235,
11-19=-270/1235

WEBS 4-15=-1454/327, 12-15=-382/1803, 6-15=-77/367, 6-12=-774/203, 7-12=-27/813,
7-11=-1442/285, 9-11=-176/1555, 13-15=0/667, 5-15=-55/752

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; BCDL=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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2 and 231 lb uplift at joint 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 14, 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: bWuMdbN0tjF5cDvSpwph1zCzbQ-TncpPEU91BYsyBTdDx2hKD57bwaHHmy9A9HzGs6b 06/11/2020			Ply	Lot 15 HT	I41303184
400302	D3	Half Hip				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:44:56 2020 Page 1						
0-10-8 0-10-8	2-3-8 2-3-8	7-4-6 5-0-14	12-5-4 5-0-14	14-2-8 1-9-4	19-8-15 5-6-7	25-8-3 5-11-4	31-11-8 6-3-5	
Scale = 1:57.2								

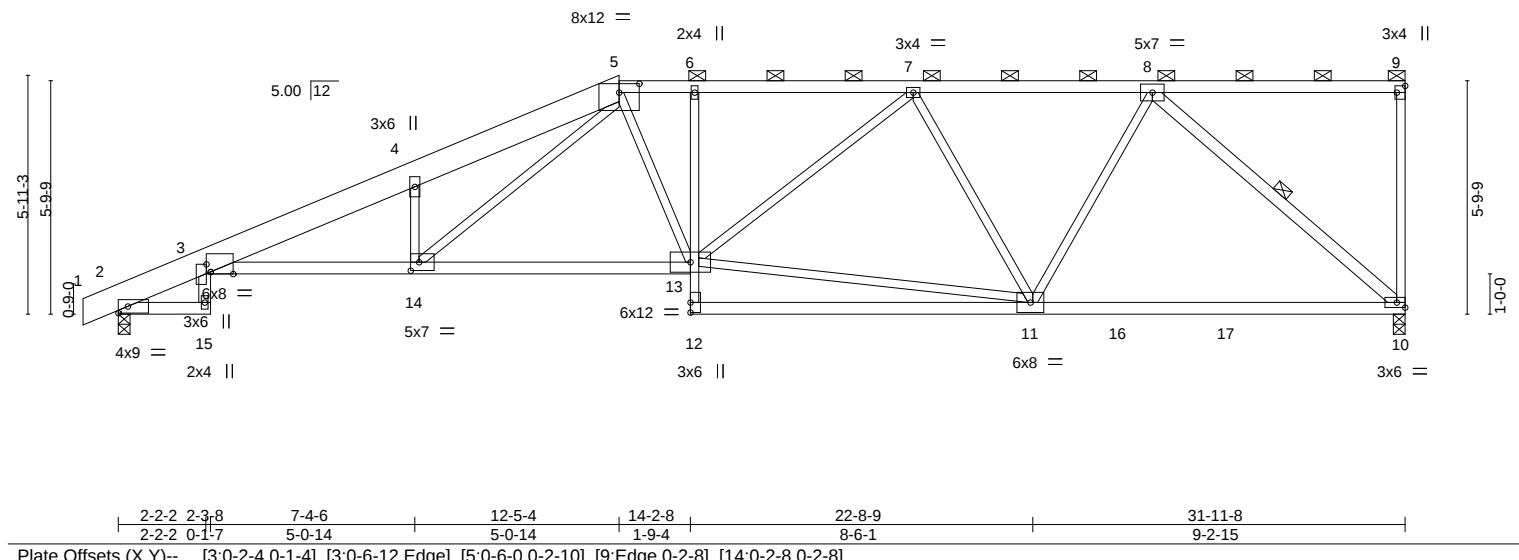


Plate Offsets (X, Y)--		[3:0-2-4,0-1-4], [3:0-6-12,Edge], [5:0-6-0,0-2-10], [9:Edge,0-2-8], [14:0-2-8,0-2-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.31 13-14	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.56 13-14	>681	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.31 10	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.20 13-14	>999	240
				PLATES	GRIP		
				MT20	197/144		
				Weight: 155 lb	FT = 10%		

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 5-9: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 5-9.
BOT CHORD 2x4 SPF 2100F 1.8E *Except* 2-15: 2x4 SPF No.2, 6-12: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 3-15,8-10: 2x4 SPF No.2	WEBS 1 Row at midpt 8-10

REACTIONS.	(size) 10=0-3-8, 2=0-3-8 Max Horz 2=243(LC 7) Max Uplift 10=-254(LC 5), 2=-182(LC 4) Max Grav 10=1499(LC 2), 2=1533(LC 2)
-------------------	--

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-805/59, 3-4=-3846/444, 4-5=-4080/542, 5-6=-2592/420, 6-7=-2578/422, 7-8=-1814/310
BOT CHORD 3-14=-603/3696, 13-14=-456/2457, 6-13=-259/122, 10-11=-301/1365
WEBS 4-14=-975/295, 5-14=-305/1644, 5-13=-63/371, 11-13=-404/2044, 7-13=-75/535, 7-11=-824/232, 8-11=-28/930, 8-10=-1805/341

- 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, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=254, 2=182.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 400302

Truss: D4

Truss Type: Half Hip

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Lot 15 HT

Job Reference (optional)

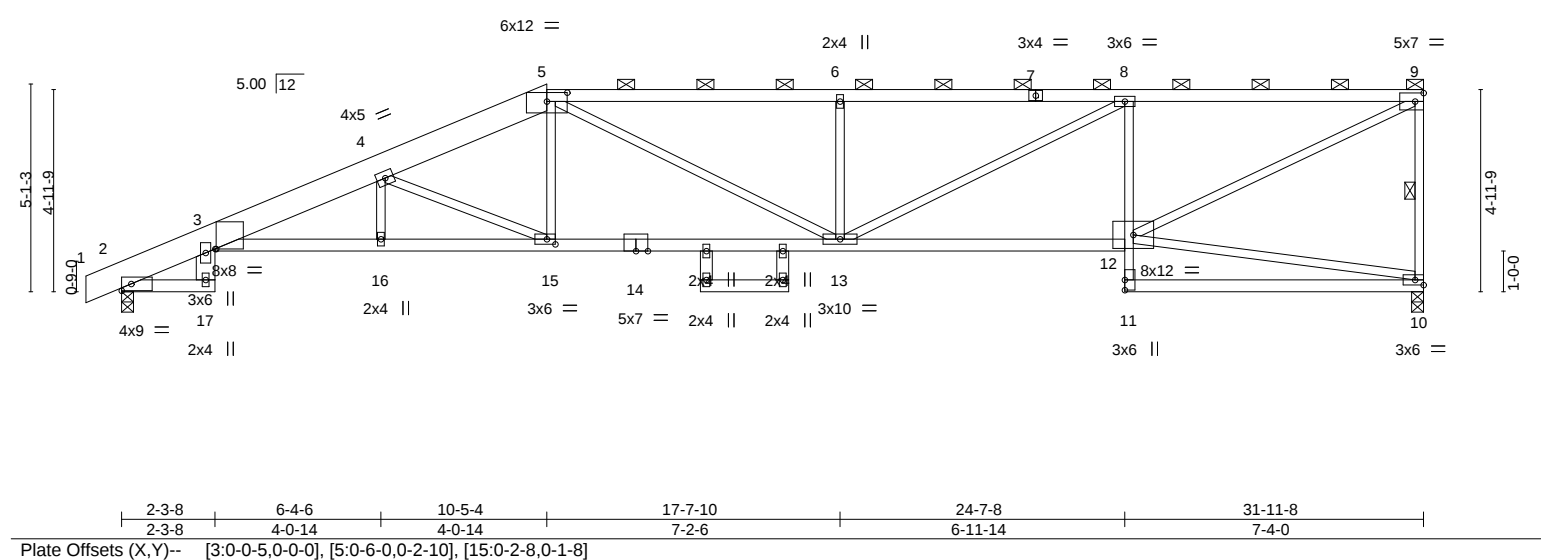
8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:34 2020 Page 1

ID: bWuMdbN0tjF5cDvSpwH1zCzbQ-citGFP1LmHpqa7m5pnVH5wUEla92cfnE9zXNFzGbEx

0-10-8 2-3-8 6-4-6 10-5-4 17-7-10 24-7-8 31-11-8

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Scale = 1:56.6



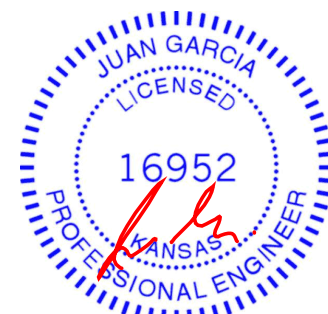
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.30 13-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.58 13-15	>659	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.35 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.24 13-15	>999	240	Weight: 147 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-5: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-1 max.): 5-9.
BOT CHORD 2x4 SPF No.2 *Except* 3-14: 2x4 SPF 2100F 1.8E, 8-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-1-13 oc bracing.
WEBS 2x3 SPF No.2 *Except* 3-17: 2x6 SPF No.2, 18-20,19-21: 2x4 SPF No.2	WEBS 1 Row at midpt 9-10

REACTIONS.	(lb/size)	10=1425/0-3-8, 2=1492/0-3-8
	Max Horz	2=206(LC 5)
	Max Uplift	10=-259(LC 5), 2=-202(LC 4)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-719/73, 3-4=-3846/519, 4-5=-3049/472, 5-6=-3145/559, 6-7=-3145/559, 7-8=-3145/559, 8-9=-2330/454, 9-10=-1351/305
BOT CHORD	3-16=-672/3789, 15-16=-668/3777, 14-15=-518/2773, 13-14=-518/2773, 12-13=-489/2341, 8-12=-956/288
WEBS	4-15=-1123/240, 5-15=-30/595, 5-13=-117/417, 6-13=-505/212, 8-13=-133/908, 9-12=-504/2575

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 10 and 202 lb uplift at joint 2.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 14,2020

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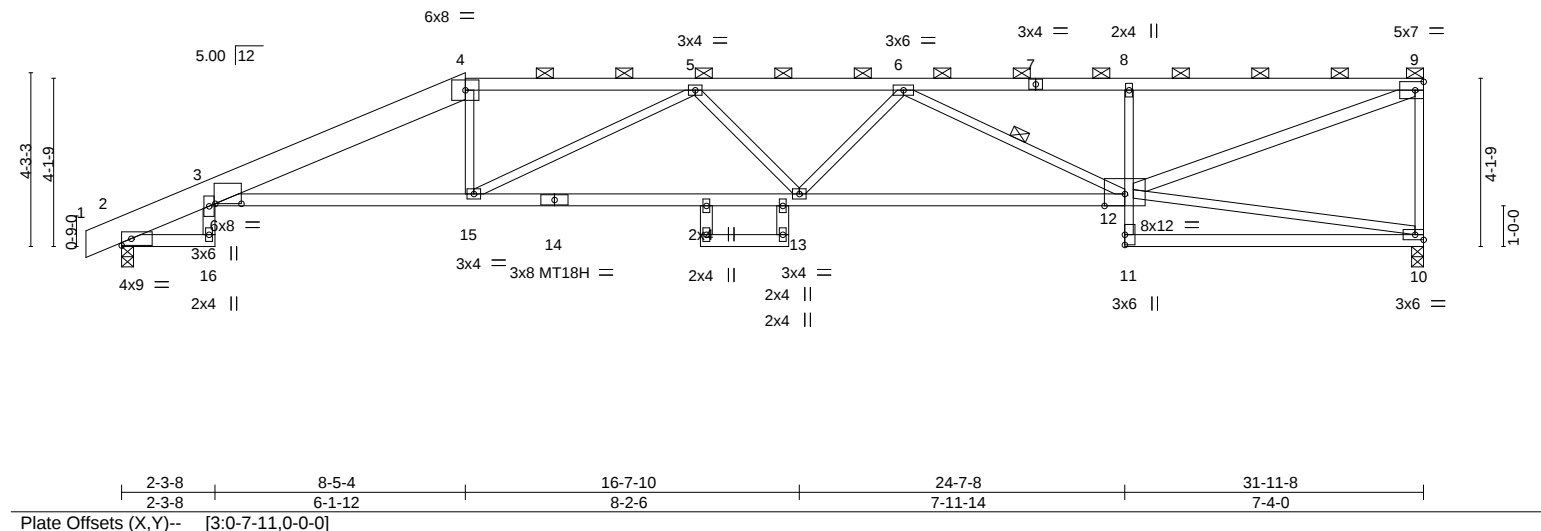


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 15 HT	I41303186
400302	D5	Half Hip			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			ID: bWuMDBN0tF5cDvSpwhpH1zCzbQ-v2ovkooQhwApAf96?nP83ZjfkZ1wBoOprAP7LzGbEq		8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:41 2020 Page 1		
0-10-8	2-3-8	8-5-4	14-1-0	19-2-5	24-7-8	31-11-8	
0-10-8	2-3-8	6-1-12	5-7-12	5-7-12	5-5-4	7-4-0	

06/11/2020

Scale = 1:56.6



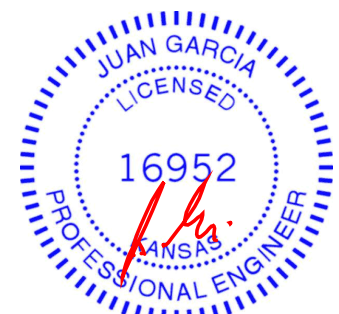
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.41 13-15	>932	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.76 13-15	>504	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.43 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.33 13-15	>999	240	Weight: 138 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 4-7: 2x4 SPF No.2, 7-9: 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-14 max.): 4-9.
BOT CHORD 2x4 SPF No.2 *Except* 3-14,12-14: 2x4 SPF 2100F 1.8E, 8-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.
WEBS 2x3 SPF No.2 *Except* 3-16,9-12,17-19,18-20: 2x4 SPF No.2	WEBS 1 Row at midpt 6-12

REACTIONS.	(lb/size) 10=1425/0-3-8, 2=1494/0-3-8 Max Horz 2=170(LC 5) Max Uplift 10=262(LC 5), 2=-218(LC 4)
-------------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-713/87, 3-4=-3351/509, 4-5=-3210/524, 5-6=-3967/671, 6-7=-2883/549, 7-8=-2883/549, 8-9=-2873/557, 9-10=-1351/307
BOT CHORD	3-15=-591/3198, 14-15=-777/3955, 13-14=-777/3955, 12-13=-759/3829, 8-12=-507/214
WEBS	4-15=-1/438, 5-15=-838/228, 6-13=0/293, 6-12=-1064/198, 9-12=-599/3061

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 10 and 218 lb uplift at joint 2.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 14, 2020

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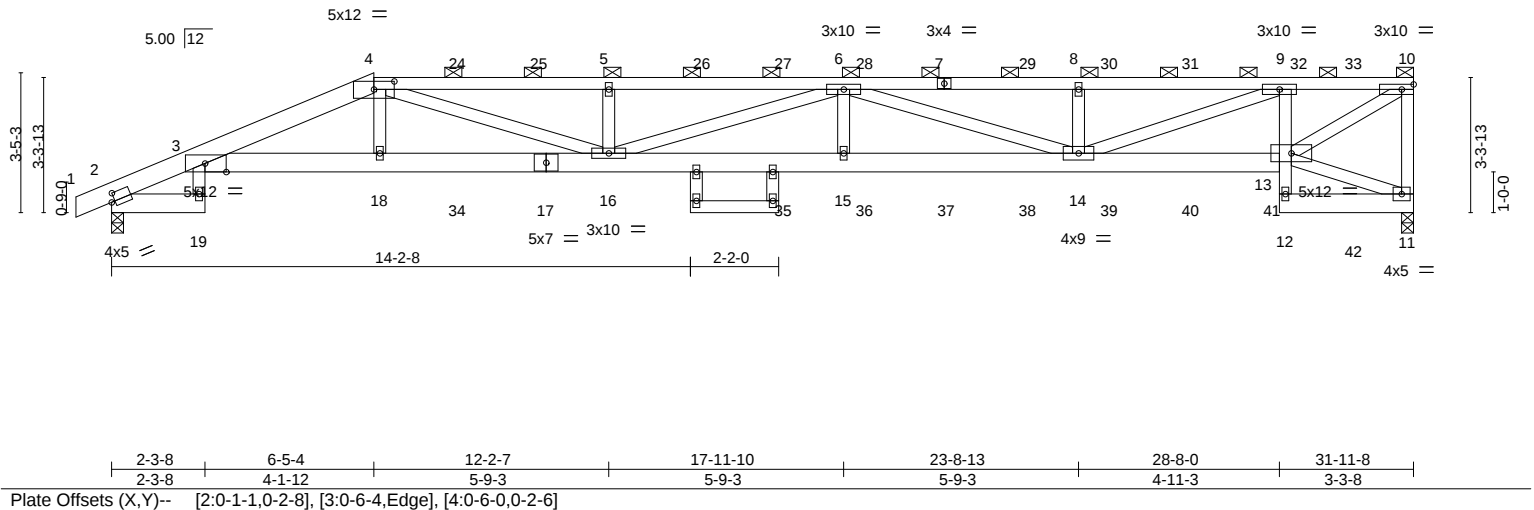


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Job	Ply	Lot 15 HT
400302	D6	Half Hip Girder	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	3	I41303187
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:59 2020 Page 1			ID:bwuMDBNofF5cDvSpwHlzCzbQ-NWujVy0jSRRGKQXa3ZkNoMtkCpA0P1CT_YXMmlzGbEY		
0-10-8	2-3-8	6-5-4	12-2-7	17-11-10	23-8-13
0-10-8	2-3-8	4-1-12	5-9-3	5-9-3	28-8-0
					4-11-3
					31-11-8
					3-3-8

Scale = 1:56.6

Scale = 1:56.6



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 0.81	Vert(LL) -0.41 15-16	>925 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.74 15-16	>513 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.41	Horz(CT) 0.32 11	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.24 15-16	>999 240	Weight: 510 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-4: 2x6 SP DSS

BOT CHORD 2x6 SP 2400F 2.0E *Except*
9-12,20-21: 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-9 max.): 4-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 11=2891/0-3-8, 2=2862/0-3-8
Max Horz 2=100(LC 5)
Max Uplift 11=-114(LC 5), 2=-195(LC 4)

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

TOP CHORD	2-3=-1669/115, 3-4=-8942/674, 4-24=-11247/673, 24-25=-11247/673, 5-25=-11247/673, 5-26=-11247/673, 26-27=-11247/673, 6-27=-11247/673, 6-28=-8983/344, 7-28=-8983/344, 7-29=-8983/344, 8-29=-8983/344, 8-30=-8983/344, 30-31=-8983/344, 31-32=-8983/344, 9-32=-8983/344, 9-33=-4358/178, 10-33=-4358/178, 10-11=-2787/146
BOT CHORD	3-18=-694/8480, 18-34=-699/8587, 17-34=-699/8587, 16-17=-699/8587, 16-35=-606/11994, 15-35=-606/11994, 15-36=-606/11994, 36-37=-606/11994, 37-38=-606/11994, 14-38=-606/11994, 14-39=-214/4605, 39-40=-213/4608, 40-41=-212/4611, 13-41=-211/4614, 9-13=-2195/190
WEBS	3-19=-36/561, 4-18=-63/1230, 4-16=-31/2928, 5-16=-723/192, 6-16=-853/0, 6-15=0/538, 6-14=-3177/240, 8-14=-608/146, 9-14=-178/4688, 10-13=-214/5058

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 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.
- 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; 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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 114 lb uplift at joint 11 and 195 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



May 14, 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:bWuMDBN0tjF5cDvSpwhpHLzCzbQ-NWUjVy0jSRRGKQXa3ZkNoMTkCpA0P1CT_YXMmlzGbEY

06/11/2020

Job	Truss	Truss Type	Ply	Lot 15 HT
400302	D6	Half Hip Girder	3	I41303187

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)
8.240 s Apr 4 2020 MiTek Industries, Inc. Thu May 14 11:56:59 2020 Page 2
ID:bWuMDBN0tjF5cDvSpwhpHLzCzbQ-NWUjVy0jSRRGKQXa3ZkNoMTkCpA0P1CT_YXMmlzGbEY

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 62 lb up at 6-5-4, 117 lb down and 62 lb up at 8-6-0, 117 lb down and 62 lb up at 10-6-0, 117 lb down and 62 lb up at 12-6-0, 117 lb down and 62 lb up at 14-6-0, 98 lb down and 51 lb up at 16-6-0, 98 lb down and 51 lb up at 18-6-0, 98 lb down and 51 lb up at 20-6-0, 98 lb down and 51 lb up at 22-6-0, 98 lb down and 51 lb up at 24-6-0, 98 lb down and 51 lb up at 26-6-0, and 98 lb down and 51 lb up at 28-6-0, and 122 lb down and 70 lb up at 30-6-0 on top chord, and 536 lb down and 145 lb up at 6-5-4, 79 lb down at 8-6-0, 79 lb down at 10-6-0, 79 lb down at 12-6-0, 89 lb down at 16-6-0, 89 lb down at 18-6-0, 89 lb down at 20-6-0, 89 lb down at 22-6-0, 89 lb down at 24-6-0, 89 lb down at 26-6-0, and 89 lb down at 28-6-0, and 75 lb down at 30-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) Filler 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: 1-4=-70, 4-10=-70, 2-19=-20, 3-13=-20, 11-12=-20

Concentrated Loads (lb)

Vert: 4=-117(B) 7=-98(B) 17=-74(B) 18=-536(B) 16=-74(B) 5=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-98(B) 28=-98(B) 29=-98(B) 30=-98(B) 31=-98(B) 32=-98(B) 33=-122(B) 34=-74(B) 35=-89(B) 36=-89(B) 37=-89(B) 38=-89(B) 39=-89(B) 40=-89(B) 41=-89(B) 42=-58(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

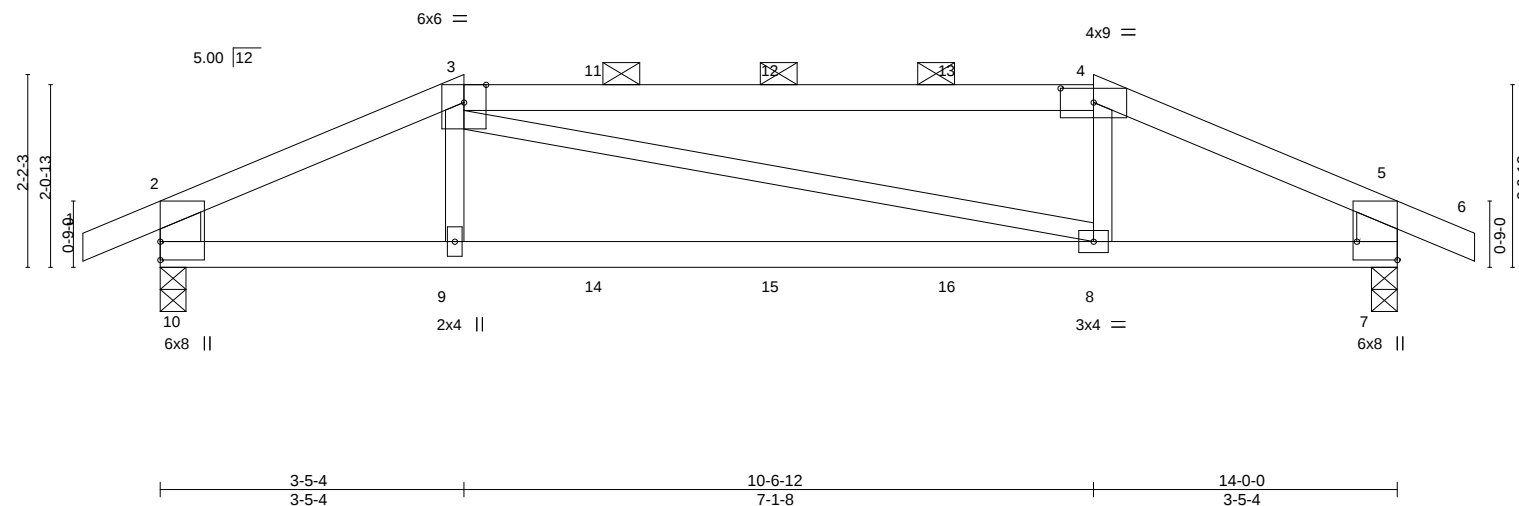
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss E1	Truss Type Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDbN0tjF5cDvSpwphH1zCzbQ-m7YStdZYNKQslGVZXWgK7huGvkuvQ6tBnS?2vNzGs6U 06/11/2020		Lot 15 HT I41303188 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:03 2020 Page 1 14-0-0 3-5-4 14-10-8 0-10-8
Wheeler Lumber, Waverly, KS 66871			240 s Mar 10-6-13 7-1-8		

Scale = 1:26.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.15	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.35				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.03				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.13	Weight: 45 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-4: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-7 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* 2-10,5-7: 2x6 SP 2400F 2.0E		

REACTIONS.	
(size)	10=0-3-8, 7=0-3-8
Max Horz	10=17(LC 28)
Max Uplift	10=-183(LC 4), 7=-183(LC 5)
Max Grav	10=858(LC 1), 7=858(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1359/274, 3-4=-1168/268, 4-5=-1339/269, 2-10=-750/160, 5-7=-755/161
BOT CHORD	9-10=-220/1197, 8-9=-228/1192, 7-8=-209/1171
WEBS	3-9=0/275, 4-8=0/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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=183, 7=183.
 - This truss 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) 164 lb down and 131 lb up at 3-5-4, 76 lb down and 61 lb up at 5-0-0, 76 lb down and 61 lb up at 7-0-0, and 76 lb down and 61 lb up at 9-0-0, and 164 lb down and 131 lb up at 10-6-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 5-0-0, 23 lb down at 7-0-0, and 23 lb down at 9-0-0, and 55 lb down at 10-6-0 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



May 14, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020					
Job	Truss	Truss Type	240 s Mar	1	Ply	Lot 15 HT I41303188		
400302	E1	Hip Girder			1	Job Reference (optional)		
Wheeler Lumber, Waverly, KS 66871			9 2020 MiTek Industries, Inc. Wed May 13 16:45:03 2020 Page 2			ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-m7YStdZYNKQslGVZXWgK7huGvkuvQ6tBnS?2vNzGs6U		
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=-37(F) 8=-37(F) 11=-31(F) 12=-31(F) 13=-31(F) 14=-16(F) 15=-16(F) 16=-16(F)								

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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
 06/11/2020

Job 400302	Truss E2	Truss Type Hip	Ply 1	Lot 15 HT I41303189
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)	

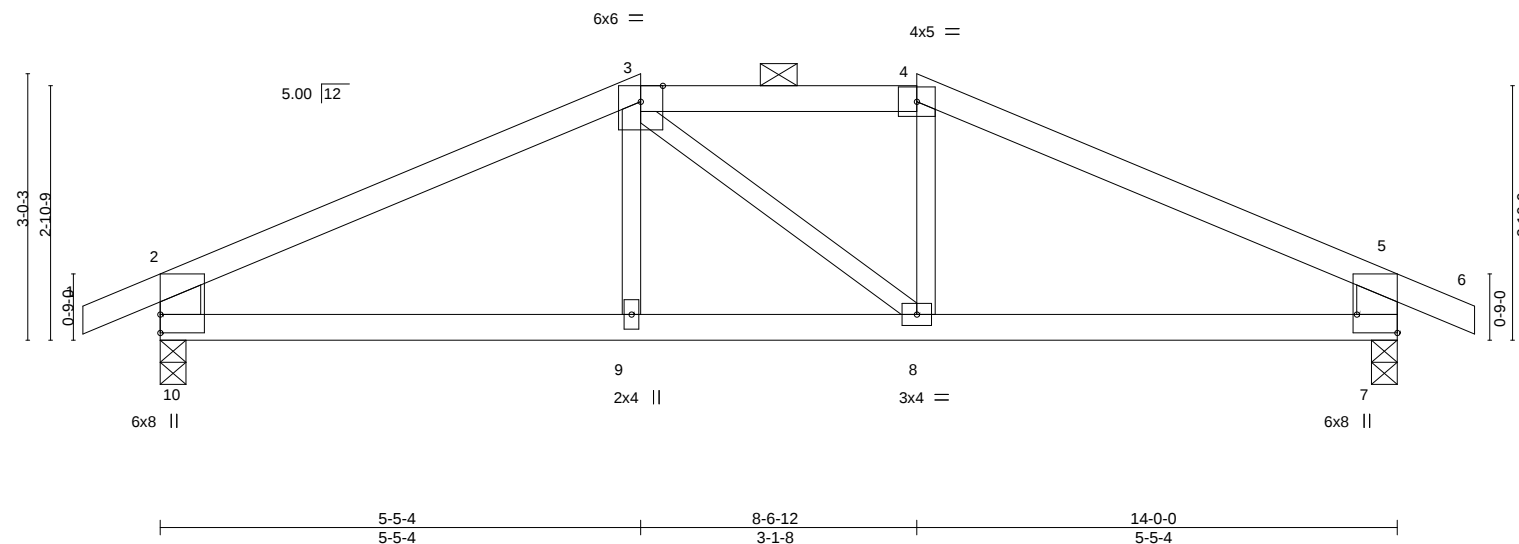
-0-10-8
0-10-8

5-5-4
5-5-4

14-0-0
5-5-4

14-10-8
0-10-8

Scale = 1:26.1



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 0.58	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.10	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	8-9	>999	240	Weight: 44 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-12 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* 2-10,5-7: 2x6 SPF No.2	

REACTIONS.	(size)
10=0-3-8, 7=0-3-8	
Max Horz 10=-27(LC 13)	
Max Uplift 10=-90(LC 8), 7=-90(LC 9)	
Max Grav 10=687(LC 1), 7=687(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-877/96, 3-4=-727/108, 4-5=-877/96, 2-10=-612/128, 5-7=-612/128
BOT CHORD	9-10=-32/729, 8-9=-34/727, 7-8=-34/729

- 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) 10, 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.



May 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss E3	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020		Lot 15 HT I41303190 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:05 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwH1zCzbQ-jWfCHJbovygaXafxwioC6zgTYj2u0PUeU8_FzGs6S
Wheeler Lumber, Waverly, KS 66871					

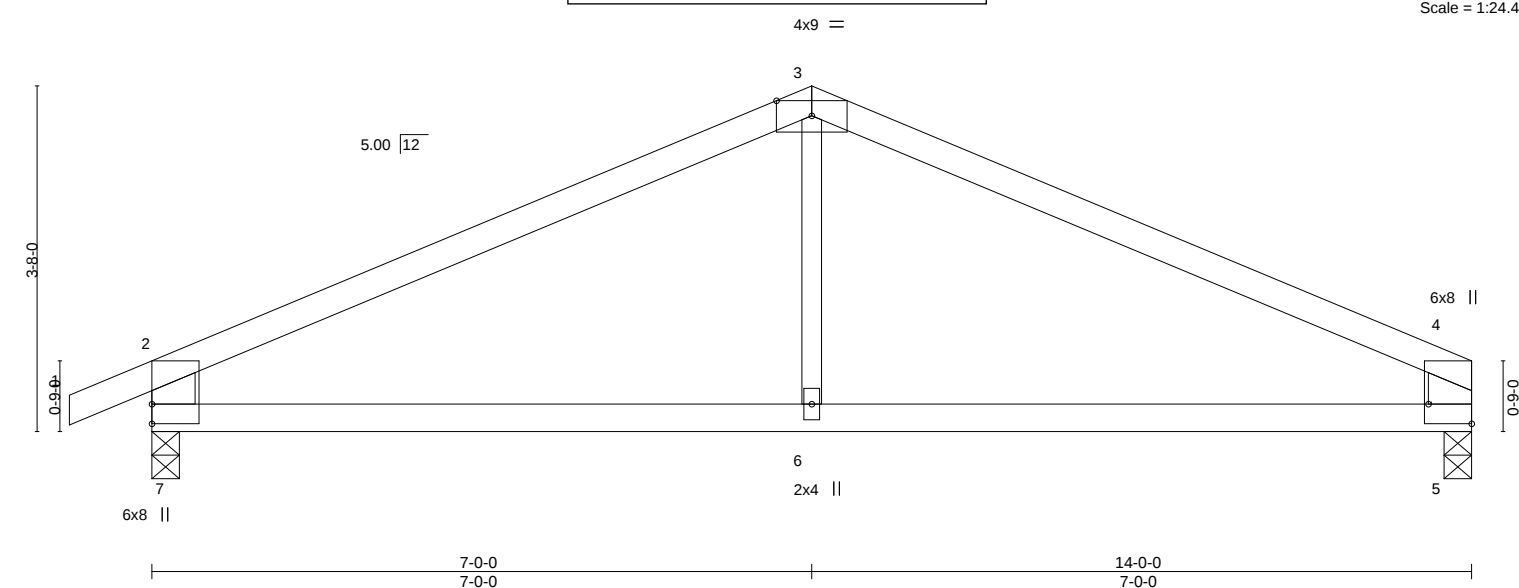


Plate Offsets (X,Y)-- [2:0-1-2,0-2-12], [4:Edge,0-5-8], [4:0-1-2,0-2-12], [5:0-0-0,0-2-12], [7:0-0-0,0-2-12]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.05 6-7 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.11 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-R		Wind(LL)	0.03 6-7 >999	240	Weight: 38 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 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*	
3-6: 2x3 SPF No.2	

REACTIONS.	(size) 7=0-3-8, 5=0-3-8
	Max Horz 7=47(LC 12)
	Max Uplift 7=-103(LC 8), 5=-77(LC 9)
	Max Grav 7=690(LC 1), 5=606(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-820/104, 3-4=-815/102, 2-7=-620/149, 4-5=-529/120
BOT CHORD	6-7=-38/662, 5-6=-38/662
WEBS	3-6=0/276

- 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) 5 except (jt=lb) 7=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.



May 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss E4	Truss Type Common Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020	Ply 2	Lot 15 HT I41303191
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:06 2020 Page 1 ID:bWuMDbN0tjF5cDvSpwhH1zCzbQ-BiDbVfcQgFoR9kE8DeD1kKWrlY1ldR8eTQEiWizGs6R			

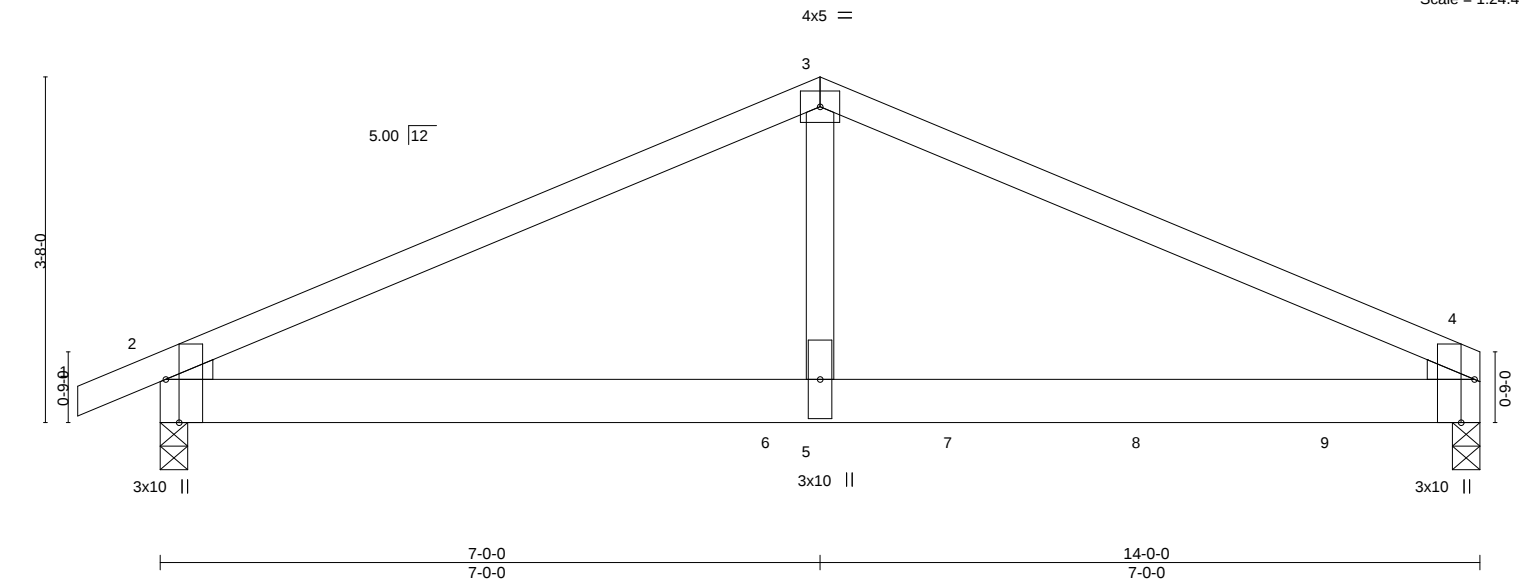


Plate Offsets (X,Y)--		[2:0-0-2,0-0-6], [2:0-0-5,0-4-11], [2:0-5-8,Edge], [4:0-0-2,0-0-6], [4:0-0-5,0-4-11], [4:0-5-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65
TCDL 10.0	Lumber DOL	1.15	BC 0.39
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.08 4-5 >999 360
		Vert(CT)	-0.13 4-5 >999 240
		Horz(CT)	0.01 4 n/a n/a
		Wind(LL)	0.04 4-5 >999 240
		PLATES	GRIP
		MT20	197/144
		Weight: 111 lb	FT = 10%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=58(LC 33)
 Max Uplift 2=-172(LC 8), 4=-192(LC 9)
 Max Grav 2=1542(LC 1), 4=2117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3009/271, 3-4=-2997/269
 BOT CHORD 2-5=-190/2615, 4-5=-190/2615
 WEBS 3-5=-77/2023

- 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.
 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) 2=172, 4=192.
 - This truss 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) 946 lb down and 103 lb up at 6-6-13, 489 lb down and 31 lb up at 8-6-0, and 453 lb down and 33 lb up at 10-6-0, and 465 lb down and 49 lb up at 12-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



May 14, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020		Ply	Lot 15 HT
400302	E4	Common Girder			2	I41303191
Wheeler Lumber, Waverly, KS 66871				Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:06 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwhH1zCzbQ-BiDbVfcQgFoR9kE8DeD1kKWrlY1ldR8eTQEiWizGs6R		

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, 2-4=-20
- Concentrated Loads (lb)
 - Vert: 6=-946(B) 7=-489(B) 8=-453(B) 9=-465(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
400302

Truss
G1

Truss Type
Hip Girder

Wheeler Lumber,
Waverly, KS 66871

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

06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:45:07 2020 Page 1

ID: bWuMdBNOtjF5cDvSpwH1zCzbQ-fvnzi_c3RZWlntpKmlkGHX26vMQbMxqni4zF28zGs6Q

0-10-8
0-10-8

1-6-12
1-6-12

5-6-12
4-0-0

7-1-8
1-6-12

8-0-0
0-10-8

Scale = 1:16.8

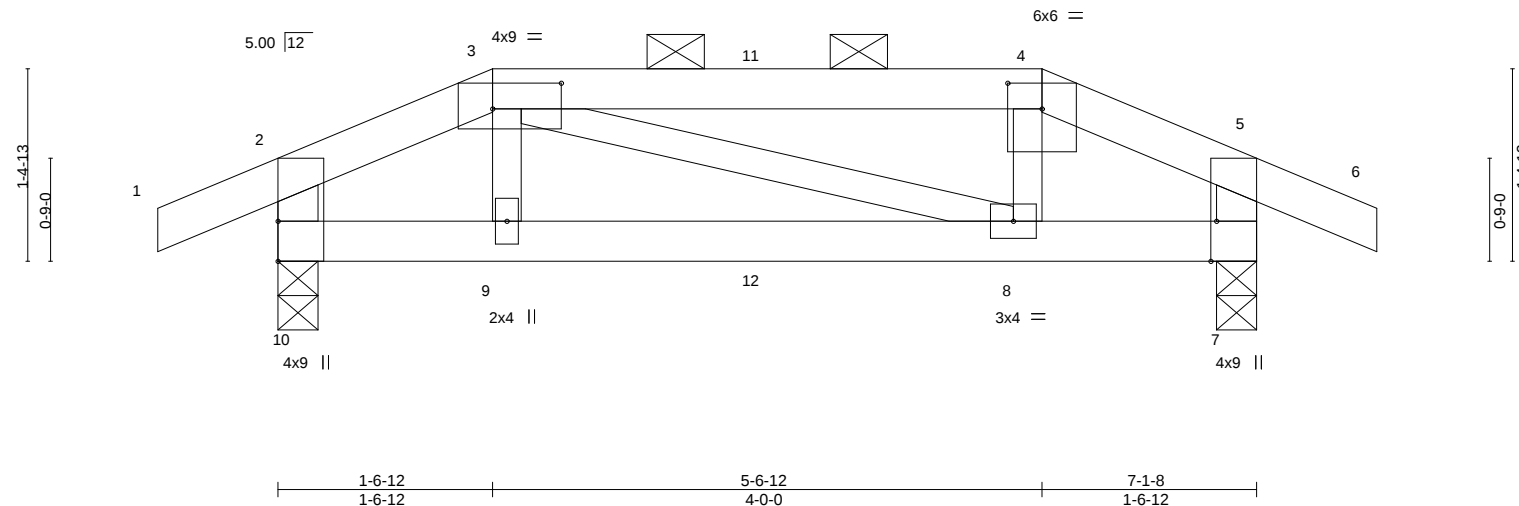


Plate Offsets (X,Y)--	[2:0-0-12,0-1-12], [3:0-6-0,0-2-4], [4:0-3-0,0-2-4], [5:0-0-12,0-1-12], [7:0-3-8,Edge], [7:0-0-0,0-1-12], [10:0-0-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code IRC2018/TPI2014	
	CSI.	
	TC 0.27	
	BC 0.22	
	WB 0.03	
	Matrix-S	
	DEFL.	
	in (loc) l/defl L/d	
	Vert(LL) -0.01 8-9 >999 360	
	Vert(CT) -0.03 8-9 >999 240	
	Horz(CT) 0.00 7 n/a n/a	
	Wind(LL) 0.01 8-9 >999 240	
	PLATES	GRIP
	MT20	197/144
	Weight: 24 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* 2-10,5-7: 2x4 SPF No.2	

REACTIONS.	(size) 10=0-3-8, 7=0-3-8
	Max Horz 10=-17(LC 27)
	Max Uplift 10=-74(LC 4), 7=-74(LC 5)
	Max Grav 10=375(LC 1), 7=375(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-368/60, 3-4=-299/56, 4-5=-368/59, 2-10=-308/66, 5-7=-308/65
BOT CHORD	9-10=-34/300, 8-9=-30/299, 7-8=-27/300

- 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) 10, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 64 lb up at 1-6-12, and 50 lb down and 23 lb up at 3-6-12, and 57 lb down and 64 lb up at 5-6-12 on top chord, and 7 lb down and 3 lb up at 1-6-12, and 3 lb down and 1 lb up at 3-6-12, and 7 lb down and 3 lb up at 5-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	
Vert:	1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20
Concentrated Loads (lb)	
Vert:	9=3(F) 8=3(F) 12=1(F)



May 14,2020

Job 400302	Truss G2	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020		Lot 15 HT I41303193 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:08 2020 Page 1 ID:bWuMdbN0tjF5cDvSpwhpH1zCzbQ-75LLwKdhCt29O1OWK3GVqlbldln95OwwwkjpbazGs6P
Wheeler Lumber, Waverly, KS 66871			240 s Mar 7-1-8 3-6-12		
-0-10-8 0-10-8			3-6-12 3-6-12		

Scale = 1:17.0

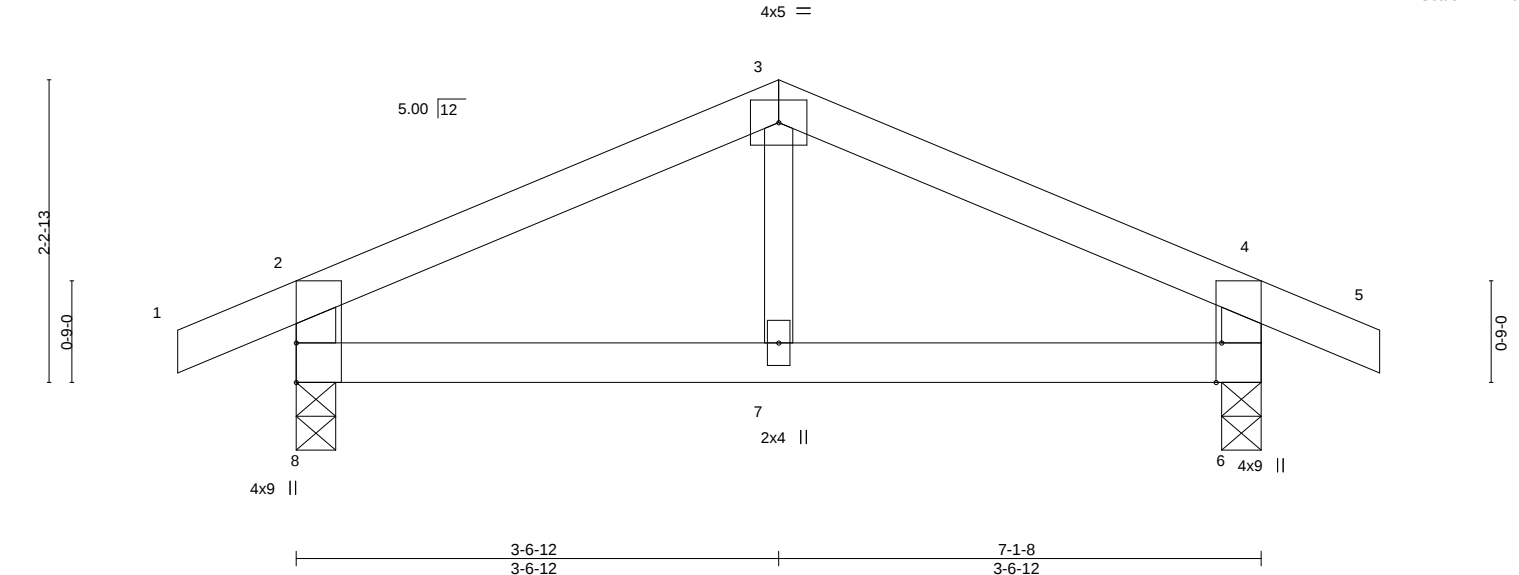


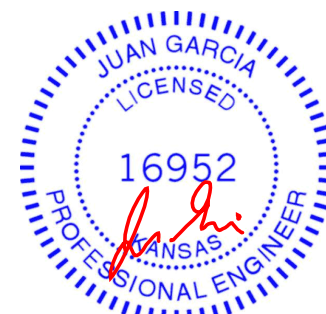
Plate Offsets (X,Y)--		[2:0-0-12,0-1-12], [4:0-0-12,0-1-12], [6:0-0-12,0-1-12], [8:0-0-12,0-1-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21
TCDL 10.0	Lumber DOL	1.15	BC 0.14
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 7 >999 360
			Vert(CT) -0.02 7 >999 240
			Horz(CT) 0.00 6 n/a n/a
			Wind(LL) 0.00 7 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 21 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 2x4 SPF No.2 *Except*	
3-7: 2x3 SPF No.2	

REACTIONS.	(size) 8=0-3-8, 6=0-3-8
	Max Horz 8=-15(LC 13)
	Max Uplift 8=-63(LC 8), 6=-63(LC 9)
	Max Grav 8=379(LC 1), 6=379(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-333/49, 3-4=-333/48, 2-8=-328/85, 4-6=-328/85
BOT CHORD	7-8=-4/254, 6-7=-4/254

- 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.



May 14, 2020

Job 400302	Truss H1	Truss Type Hip Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDbN0tjF5cDvSpwH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgUhZlZ5GDO2CvTzGs6N 06/11/2020		Lot 15 HT I41303194 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 1 PH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgUhZlZ5GDO2CvTzGs6N
Wheeler Lumber, Waverly, KS 66871			10-0-0 4-6-12	14-6-12 4-6-12	20-0-0 5-5-4

Scale = 1:35.1

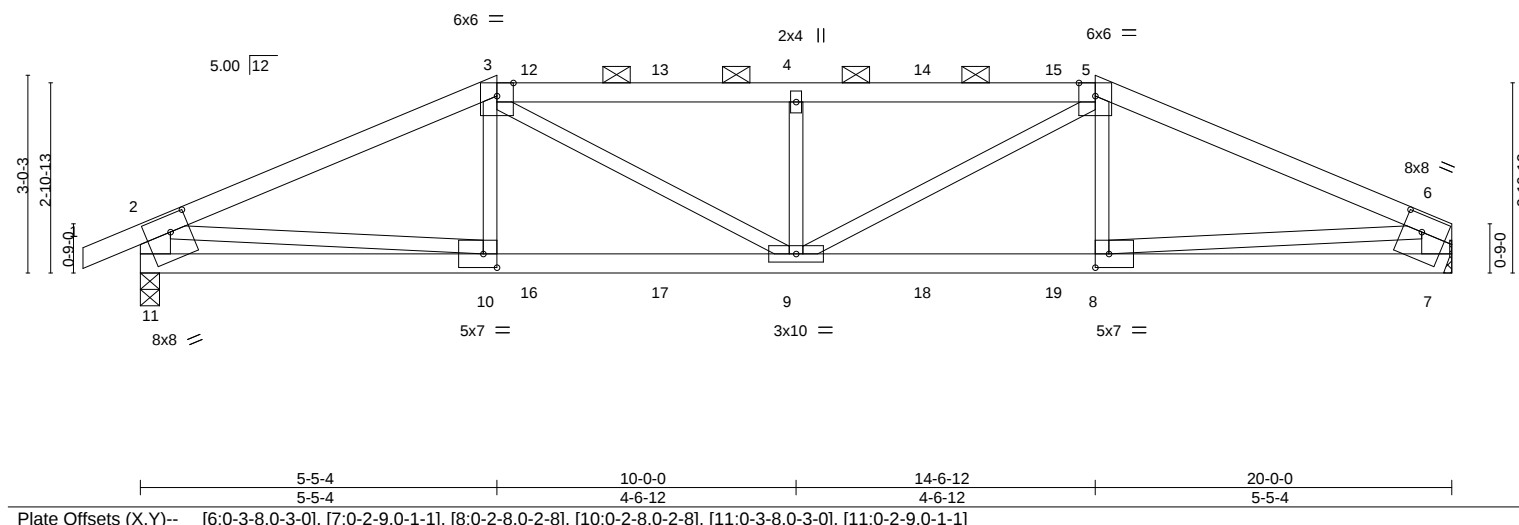


Plate Offsets (X,Y)--		[6:0-3-8,0-3-0], [7:0-2-9,0-1-1], [8:0-2-8,0-2-8], [10:0-2-8,0-2-8], [11:0-3-8,0-3-0], [11:0-2-9,0-1-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.88	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(LL) -0.16 9 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.82	Vert(CT) -0.28 8-9 >826 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.05 7 n/a n/a
			Wind(LL) 0.10 9 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 71 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-2 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* 2-11,6-7: 2x6 SPF No.2	

REACTIONS. (size) 11=0-3-8, 7=Mechanical
 Max Horz 11=24(LC 5)
 Max Uplift 11=-184(LC 4), 7=-168(LC 9)
 Max Grav 11=1753(LC 1), 7=1671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3138/360, 3-4=-3608/416, 4-5=-3608/416, 5-6=-3142/359, 2-11=-1687/207, 6-7=-1604/191
 BOT CHORD 10-11=-109/604, 9-10=-308/2819, 8-9=-307/2833, 7-8=-62/480
 WEBS 3-10=0/338, 3-9=-85/975, 4-9=-706/186, 5-9=-83/967, 5-8=0/329, 2-10=-246/2289, 6-8=-265/2374

- 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) except (jt=lb) 11=184, 7=168.
 - This truss 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) 121 lb down and 64 lb up at 5-5-4, 109 lb down and 64 lb up at 6-0-0, 98 lb down and 64 lb up at 8-0-0, 98 lb down and 64 lb up at 10-0-0, 98 lb down and 64 lb up at 12-0-0, and 109 lb down and 64 lb up at 14-0-0, and 121 lb down and 64 lb up at 14-6-12 on top chord, and 344 lb down and 99 lb up at 5-5-4, 60 lb down at 6-0-0, 60 lb down at 8-0-0, 60 lb down at 10-0-0, 60 lb down at 12-0-0, and 60 lb down at 14-0-0, and 344 lb down and 99 lb up at 14-6-0 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
 Continued on page 2



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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 06/11/2020			Lot 15 HT
400302	H1	Hip Girder		Ply	1	I41303194
Wheeler Lumber, Waverly, KS 66871			240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwfpH1zCzbQ-3UT5L0fxkUJteLXvSUIzvAgUhZlZ5GDO2CvTzGs6N			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, 3-5=-70, 5-6=-70, 7-11=-20
- Concentrated Loads (lb)
- Vert: 3=-98(F) 5=-98(F) 10=-344(F) 9=-43(F) 4=-98(F) 8=-344(F) 12=-98(F) 13=-98(F) 14=-98(F) 15=-98(F) 16=-43(F) 17=-43(F) 18=-43(F) 19=-43(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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



16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job
400302

Truss
H2

Truss Type
Hip

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

0-10-8 7-5-4

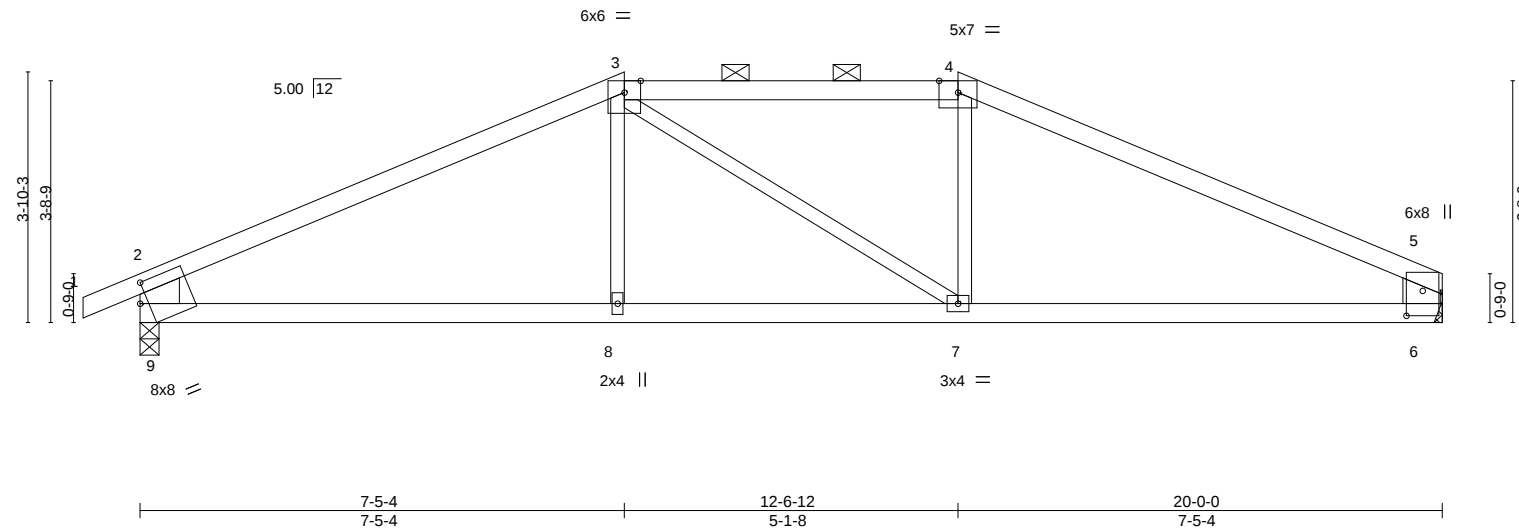
240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:10 2020 Page 1

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0-10-8 7-5-4

20-0-0 7-5-4

Scale = 1:35.4



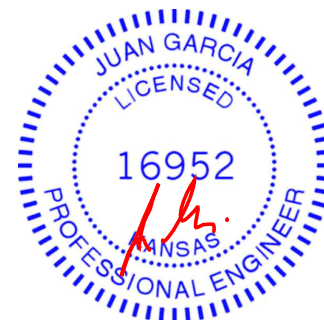
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.29				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.07	Weight: 61 lb		FT = 10%	

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

REACTIONS.	
(size)	9=0-3-8, 6=Mechanical
Max Horz	9=29(LC 10)
Max Uplift	9=-16(LC 4)
Max Grav	9=958(LC 1), 6=870(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1368/21, 3-4=-1147/35, 4-5=-1351/18, 2-9=-869/62, 5-6=-759/47
BOT CHORD	8-9=0/1156, 7-8=0/1153, 6-7=0/1149

- 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) 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.



May 14,2020

Job: 400302

Truss: H3

Truss Type: Hip

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Ply: 1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:45:11 2020 Page 1

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3-7-2

3-7-2

9-5-4

5-10-2

10-6-12

1-1-8

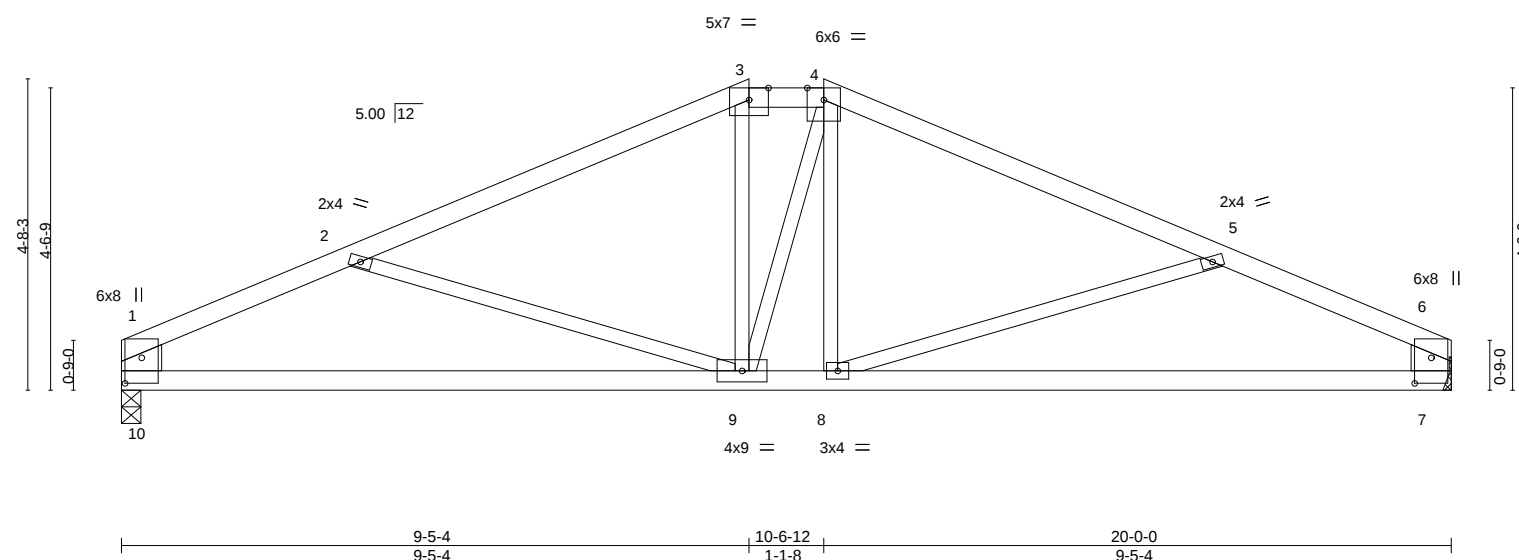
16-4-14

5-10-2

20-0-0

3-7-2

Scale = 1:34.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.17	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.34	Weight: 70 lb FT = 10%			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08				

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

REACTIONS. (size) 10=0-3-8, 7=Mechanical
 Max Horz 10=26(LC 10)
 Max Uplift 10=-10(LC 8), 7=-10(LC 9)
 Max Grav 10=873(LC 1), 7=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1414/77, 2-3=-1161/4, 3-4=-1021/26, 4-5=-1160/4, 5-6=-1414/77, 1-10=-763/57, 6-7=-762/57
 BOT CHORD 9-10=-75/1214, 8-9=0/1020, 7-8=-49/1214
 WEBS 2-9=-258/133, 3-9=-25/269, 5-8=-259/133

- 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) 10, 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.



May 14,2020



LUMBER	BRACING

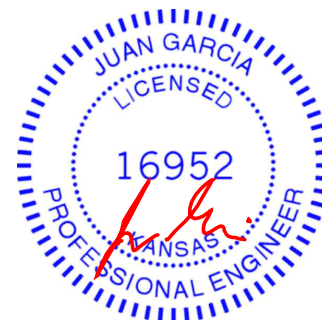
BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

TOP CHORD	1-2=-1414/76, 2-3=-1103/14, 3-4=-1103/14, 4-5=-1414/77, 1-8=-758/60, 5-6=-758/60
BOT CHORD	7-8=-72/1216, 6-7=-43/1216
WEBS	3-7=0/434, 4-7=-331/139, 2-7=-331/139

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); 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) 8, 6.
- 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.



May 14, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-U38Ez2hp1PhSVoGU7crgXol3GmMymYlg40QaGozGs6K 06/11/2020			Lot 15 HT	I41303198
400302	H5	Half Hip				Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			9-6-12	15-7-11	20-0-0	240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:13 2020 Page 1 CzQ-U38Ez2hp1PhSVoGU7crgXol3GmMymYlg40QaGozGs6K	
4-10-10		4-10-10	4-8-2	6-0-15	4-4-5		

Scale = 1:34.3

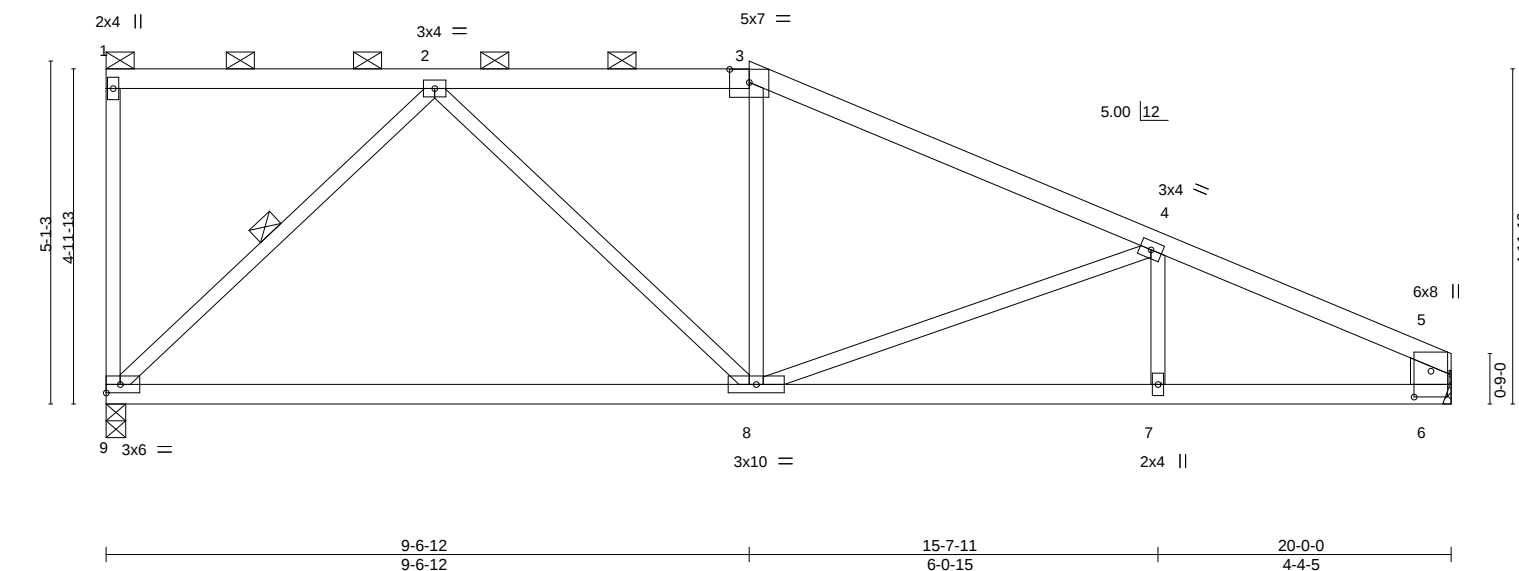


Plate Offsets (X,Y)-- [3:0-3-8,0-2-5], [5:0-4-10,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.20 8-9 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.41 8-9 >569	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02 6 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06 7-8 >999	240	Weight: 72 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
5-6: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-9 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9

REACTIONS.

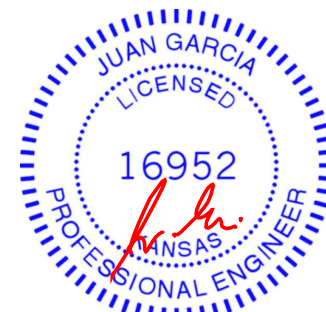
(size) 9=0-3-8, 6=Mechanical
Max Horz 9=-155(LC 6)
Max Uplift 9=-43(LC 4), 6=-12(LC 9)
Max Grav 9=882(LC 1), 6=882(LC 1)

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

TOP CHORD 2-3=-979/34, 3-4=-1135/23, 4-5=-1406/40, 5-6=-704/33
BOT CHORD 8-9=-2/687, 7-8=-13/1230, 6-7=-13/1230
WEBS 2-9=-944/90, 2-8=0/406, 4-8=-270/104

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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) 9, 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

- Dimensions:**
 - Vertical dimensions on the left: 5-11-3 and 5-9-9.
 - Vertical dimensions on the right: 5-9-9 and 0-9-0.
 - Horizontal dimensions at the bottom: 7-6-12 (7-6-12), 13-3-0 (5-8-3), and 20-0-0 (6-9-0).
- Member Labels:**
 - Top horizontal members: 3x4 || (left), 6x8 = (middle), 6x8 || (right).
 - Vertical members: 3x4 || (left), 3x4 = (middle), 2x4 || (right).
 - Diagonal members: 3x4 = (left), 3x4 = (middle), 3x4 || (right).
 - Bottom horizontal members: 3x6 = (left), 3x4 = (middle), 2x4 || (right).
- Other Labels:**
 - 5.00 | 12 (near the middle vertical member).
 - 8 (near the bottom left corner).
 - 9 (near the bottom middle-left corner).
 - 7 (near the bottom middle-right corner).
 - 6 (near the bottom right corner).
 - 5 (near the bottom right corner).
 - 4 (near the bottom right corner).
 - 3 (near the middle vertical member).
 - 2 (near the top middle-right corner).
 - 1 (near the top left corner).

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 1-2.
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 2-8
	4-5: 2x8 SP DSS		

REACTIONS. (size) 8=0-3-8, 5=Mechanical
 Max Horz 8=-182(LC 4)
 Max Uplift 8=-42(LC 4), 5=-18(LC 9)
 Max Grav 8=930(LC 2), 5=918(LC 2)

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

TOP CHORD	1-8=-251/62, 2-3=-973/40, 3-4=-1431/45, 4-5=-759/57
BOT CHORD	7-8=0/843, 6-7=0/1240, 5-6=0/1240
WEBS	2-8=-1020/36, 2-7=0/552, 3-7=-460/93

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=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
- 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) 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) 8, 5.
- 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.



May 14, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss J1	Truss Type Diagonal Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDBN0tjF5cDvSpwhp 06/11/2020		Lot 15 HT I41303200 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:15 2020 Page 1 H1zCzbQ-QRG_Ojj4Z0x9k6QsE1u8cDORra8YEFyXKvgKgZGs6l
Wheeler Lumber, Waverly, KS 66871		2-9-3 2-9-3 4-8-13 1-11-10 1-2-14 1-2-14 1-11-10			

Scale = 1:13.5

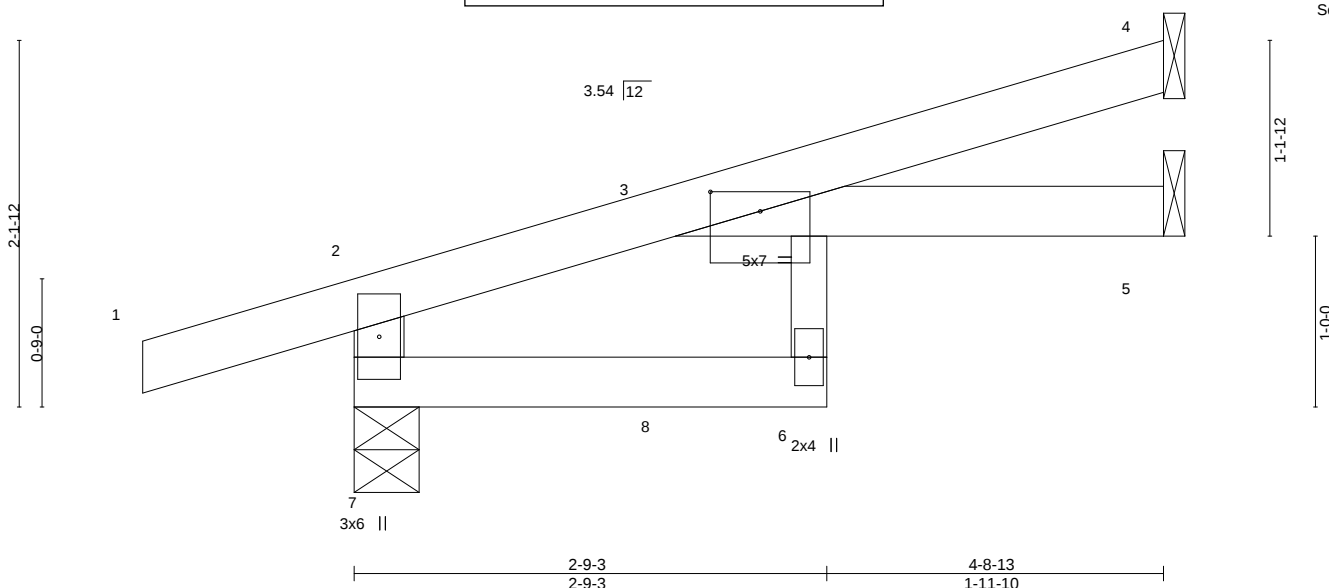


Plate Offsets (X,Y)--		[3:0-3-8,0-1-6]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0		Plate Grip DOL 1.15		TC 0.40		Vert(LL) -0.04	6	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.28		Vert(CT) -0.09	6	>604	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.00		Horz(CT) 0.04	5	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL) 0.05	6	>999	240	Weight: 14 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-6: 2x3 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-4-9, 4=Mechanical, 5=Mechanical
 Max Horz 7=68(LC 4)
 Max Uplift 7=-85(LC 4), 4=-45(LC 8)
 Max Grav 7=322(LC 1), 4=123(LC 1), 5=85(LC 3)

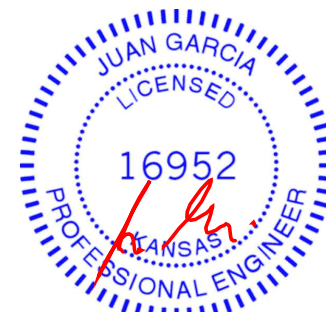
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-308/105

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) 7, 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) 66 lb down and 20 lb up at 1-11-15, and 66 lb down and 20 lb up at 1-11-15 on top chord, and 3 lb down and 2 lb up at 1-10-5, and 3 lb down and 2 lb up at 1-10-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 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, 6-7=-20, 3-5=-20
 Concentrated Loads (lb)
 Vert: 8=4(F=2, B=2)



May 14, 2020

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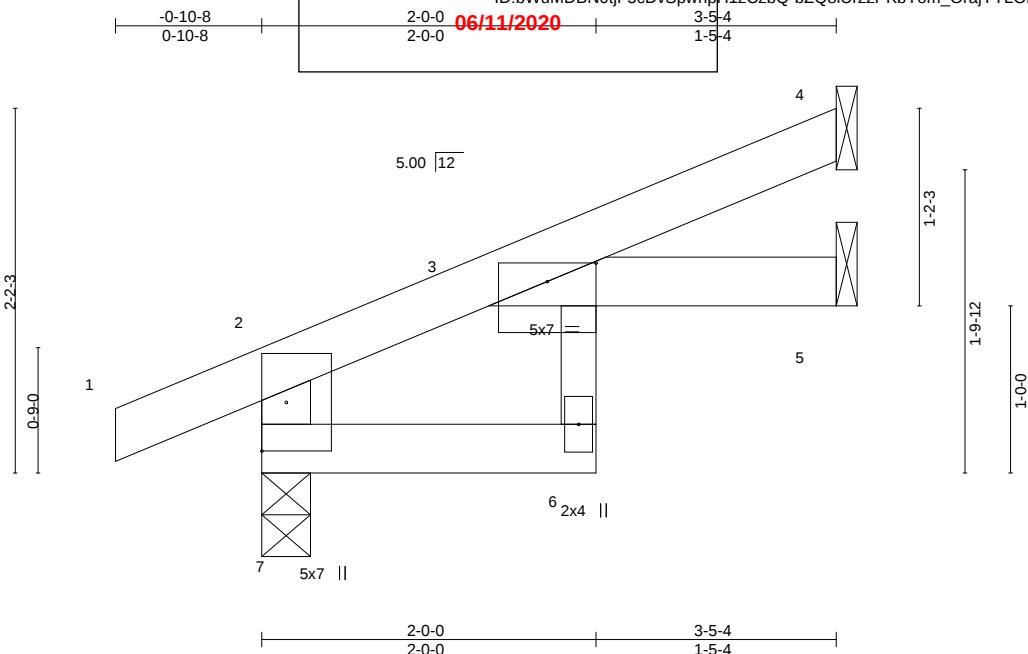


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-bZQ8iUrzzPKbYom_OrajYYL0n0xYJXza3X4mDXzGs67 06/11/2020			Lot 15 HT	I41303201
400302	J2	Jack-Open				1	

Wheeler Lumber, Waverly, KS 66871

240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:26 2020 Page 1
 H1zCzbQ-bZQ8iUrzzPKbYom_OrajYYL0n0xYJXza3X4mDXzGs67



Scale = 1:13.8

Plate Offsets (X,Y)--		[2:0-0-12,0-1-12], [3:0-3-8,0-1-5], [7:0-0-0,0-1-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(LL) -0.01 6 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.02 6 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.01 5 n/a n/a
			Wind(LL) 0.02 6 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 11 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-6: 2x3 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=63(LC 8)
 Max Uplift 7=30(LC 8), 4=38(LC 8), 5=3(LC 8)
 Max Grav 7=234(LC 1), 4=87(LC 1), 5=61(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) 7, 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.



May 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss J3	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 15 HT I41303202
Wheeler Lumber, Waverly, KS 66871			ID: bWuMDBN0tjF5cDvSpwH1zCzbQ-ngbJ?F_tNni2NV55xfHJVslHcSjwNVhCbEr5PzGs5y 06/11/2020			Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:37 2020 Page 1
			-0-10-8 0-10-8 1-4-3 1-4-3			

Scale = 1:9.4

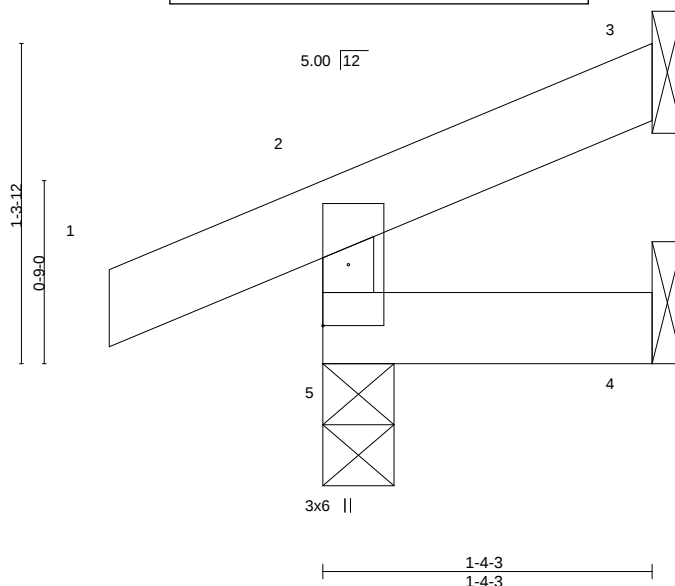


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	L/defl	L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.06		Vert(LL) -0.00	5	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.01		Vert(CT) -0.00	5	>999	240		
BCLL 0.0 *		Rep 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 1-4-3 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=33(LC 5)
Max Uplift 5=-34(LC 4), 3=-18(LC 8)
Max Grav 5=151(LC 1), 3=20(LC 1), 4=22(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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 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:bWuMdbN0tjF5cDvSpwH1zCzbQ-Fs9hDb_V85qu?egH5MoY14rGHrvW6rNLqP_OdrzGs5x 06/11/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 15 HT			I41303203
400302	J4	Diagonal Hip		1	Job Reference (optional)			
Wheeler Lumber, Waverly, KS 66871			240 s Mar			9 2020 MiTek Industries, Inc. Wed May 13 16:45:38 2020 Page 1		
-1-2-14 1-2-14 4-7-2 4-7-2			8-11-12 4-4-10					

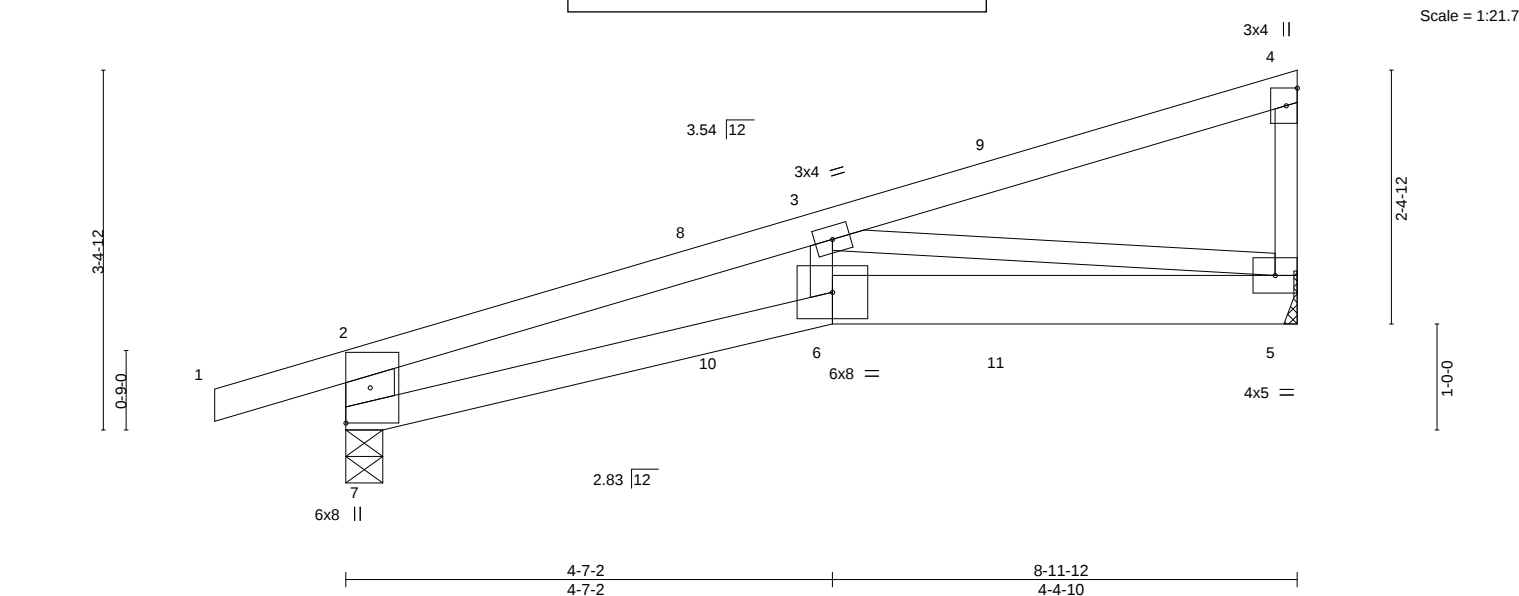


Plate Offsets (X,Y)-- [2:0-0-13,0-2-12], [7:0-0-10,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.12 6 >889 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.21 6 >503 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.06 5 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.11 6 >975 240	Weight: 32 lb	FT = 10%

LUMBER-	BRACING-	
TOP CHORD 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
5-6: 2x6 SPF No.2		
WEBS 2x3 SPF No.2 *Except*		
2-7: 2x6 SP DSS		

REACTIONS. (size) 7=0-4-3, 5=Mechanical
Max Horz 7=123(LC 5)
Max Uplift 7=-141(LC 4), 5=-112(LC 8)
Max Grav 7=533(LC 1), 5=454(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-650/210, 2-3=-1088/263
BOT CHORD 6-7=-295/994, 5-6=-282/1005
WEBS 3-6=0/289, 3-5=-959/280

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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=141, 5=112.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 44 lb up at 3-4-15, 72 lb down and 44 lb up at 3-4-15, and 103 lb down and 78 lb up at 6-2-14, and 103 lb down and 78 lb up at 6-2-14 on top chord, and 6 lb down at 3-4-15, 6 lb down at 3-4-15, and 28 lb down at 6-2-14, and 28 lb down at 6-2-14 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



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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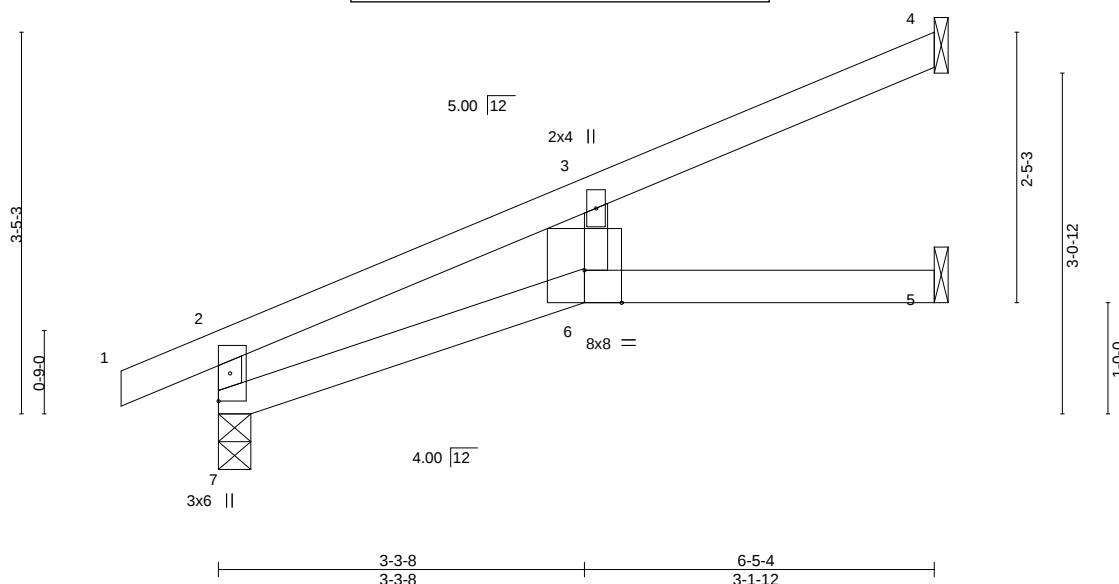
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020			Lot 15 HT
400302	J4	Diagonal Hip Girder				I41303203
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)
						9 2020 MiTek Industries, Inc. Wed May 13 16:45:38 2020 Page 2

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 9=-66(F=-33, B=-33) 10=-1(F=-1, B=-1) 11=-40(F=-20, B=-20)



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMdBNOtjF5cDvSpwH1zCzbQ-j3j3Qx?7vOylcoFUE3JnaHNYFHZrPxU33jyAHZGs5w			Lot 15 HT	I41303204
400302	J5	Jack-Open				Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			3-3-8	06/11/2020	6-5-4	9 2020 MiTek Industries, Inc. Wed May 13 16:45:39 2020 Page 1 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:39 2020 Page 1	
			0-10-8		3-1-12		



Scale = 1:20.7

Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [7:0-0-7,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.42	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(LL) -0.12 6 >654 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Vert(CT) -0.21 6 >362 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.07 5 n/a n/a
			Wind(LL) 0.09 6 >833 240
			PLATES MT20
			GRIP 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 6-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=79(LC 8)
 Max Uplift 7=-3(LC 8), 4=-37(LC 8)
 Max Grav 7=356(LC 1), 4=168(LC 1), 5=109(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); 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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.



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Job 400302	Truss J6	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Lot 15 HT I41303205
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:40 2020 Page 1 ID:bWuMDBN0tjF5cDvsPwphH1zCzbQ-BFHReH0lgi4cEyqgCnq07VwlfifiNasReHjTVijzGs5v		
-0-10-8 0-10-8			3-3-8 3-3-8		
			4-4-3 1-0-11		

Scale = 1:15.6

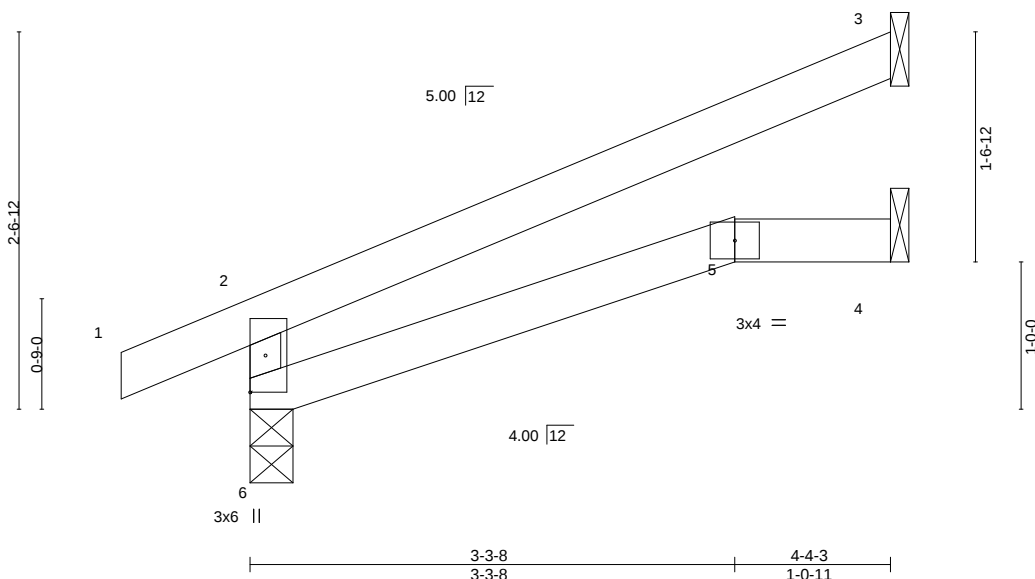


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [6:0-0-7,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(LL) -0.02 5-6 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.03 5-6 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.02 3 n/a n/a
			Wind(LL) 0.01 5-6 >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 4-4-3 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=78(LC 8)
Max Uplift 6=35(LC 8), 3=70(LC 8)
Max Grav 6=265(LC 1), 3=132(LC 1), 4=80(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) 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.



May 14, 2020

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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMDBN0tjF5cDvSpwph		Lot 15 HT
400302	J7	Jack-Open			I41303206

Wheeler Lumber, Waverly, KS 66871

-0-10-8
0-10-8

06/11/2020
2-4-3
2-4-3

240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:41 2020 Page 1
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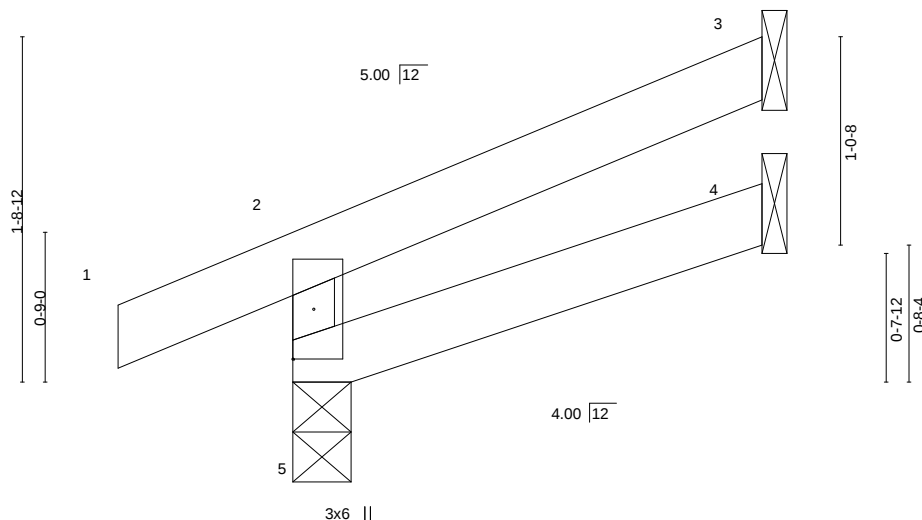


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-7,0-1-4]

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	4-5	>999	360	MT20	197/144
TCDL 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	4-5	>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 2-4-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

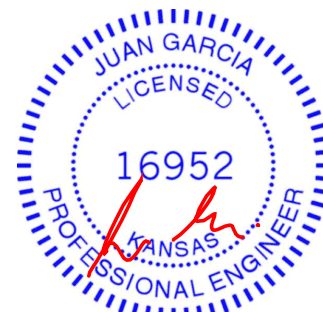
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=45(LC 5)
Max Uplift 5=-29(LC 4), 3=-37(LC 8)
Max Grav 5=182(LC 1), 3=61(LC 1), 4=41(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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Job 400302	Truss J8	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020	Ply 1	Lot 15 HT I41303207
Wheeler Lumber, Waverly, KS 66871					Job Reference (optional)

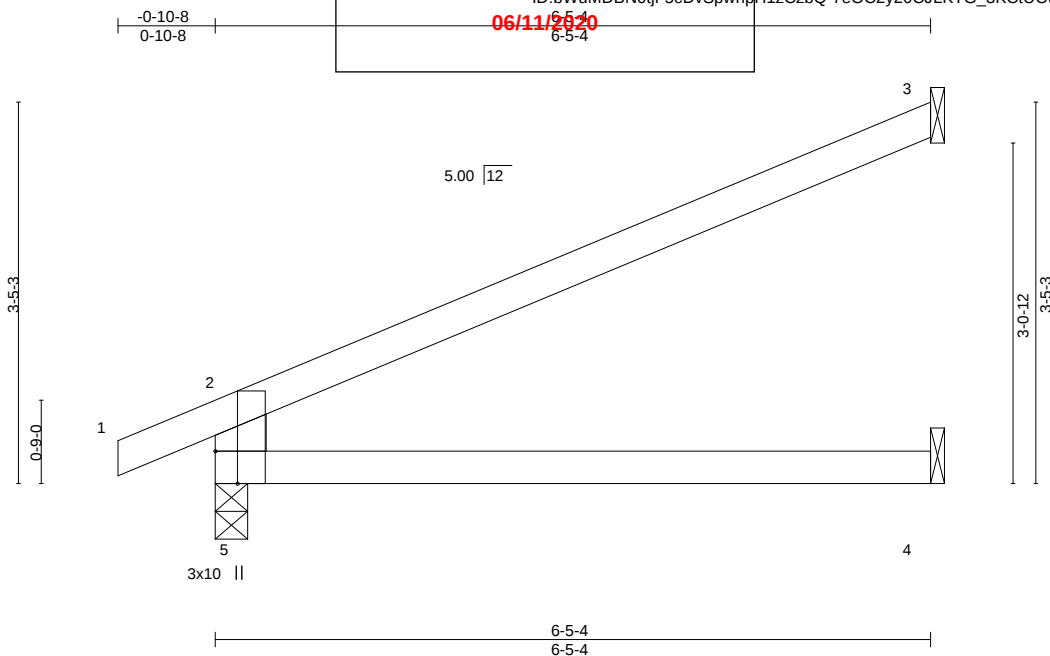


Plate Offsets (X,Y)-- [2:0-1-2,0-2-12], [5:0-3-8,Edge], [5:0-0-0,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.06 4-5 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.15 4-5 >505 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05 3 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.05 4-5 >999 240	Weight: 17 lb	FT = 10%

LUMBER-

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

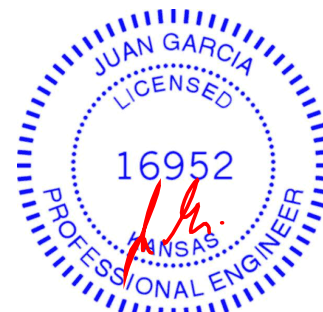
(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=79(LC 8)
Max Uplift 5=-4(LC 8), 3=-56(LC 8)
Max Grav 5=361(LC 1), 3=192(LC 1), 4=115(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-316/57

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) 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.



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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 15 HT
400302	J9	Jack-Closed	5		1	I41303208
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:42 2020 Page 1				
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		-0-10-8 0-10-8		5-6-0 5-6-0		6-5-4 0-11-4

Scale = 1:21.8

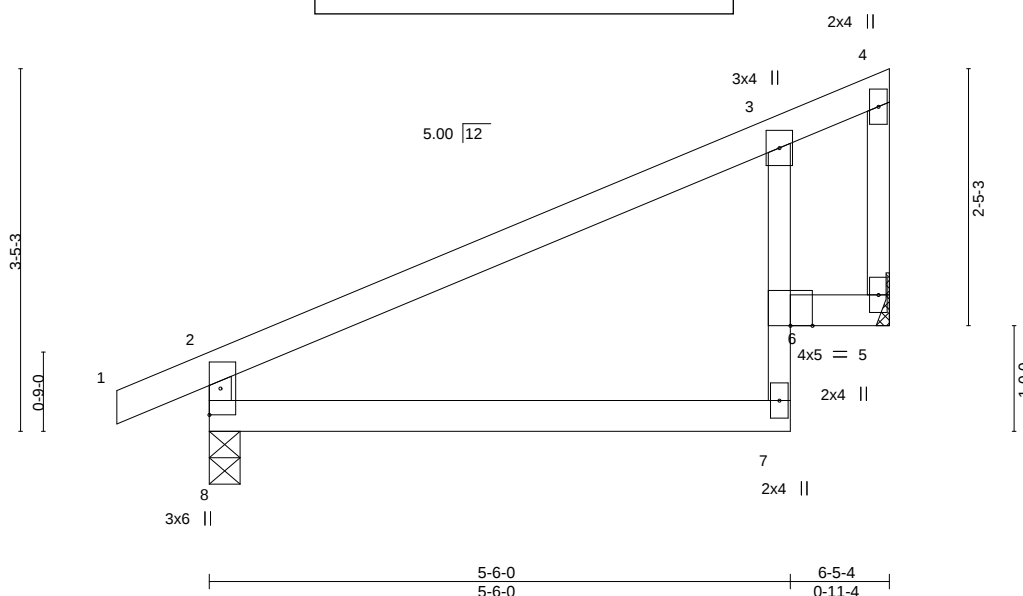


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [8:0-0-0,0-1-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 20 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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 5=Mechanical
 Max Horz 8=96(LC 5)
 Max Uplift 8=-14(LC 8), 5=-24(LC 8)
 Max Grav 8=354(LC 1), 5=275(LC 1)

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

TOP CHORD 2-8=-309/50

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) 8, 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.



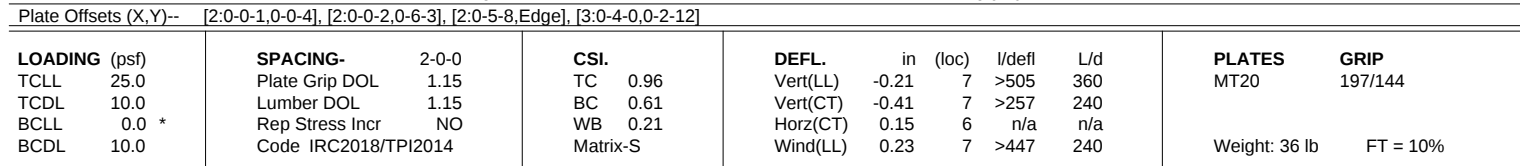
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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

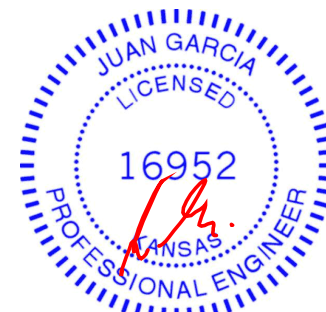
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	3-4=-786/255
BOT CHORD	3-6=-269/762
WEBS	4-6=-771/299

NOTES-

- 1) 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) 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) except (jt=lb) 6=136, 2=166.
- 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) 63 lb down and 25 lb up at 3-4-15, 63 lb down and 25 lb up at 3-4-15, and 97 lb down and 59 lb up at 6-2-14, and 97 lb down and 59 lb up at 6-2-14 on top chord, and 31 lb down and 29 lb up at 3-4-15, 31 lb down and 29 lb up at 3-4-15, and 45 lb down and 31 lb up at 6-2-14, and 45 lb down and 31 lb up at 6-2-14 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: 1-3=-70. 3-5=-70. 2-7=-20. 3-6=-20



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Girder		Ply	Lot 15 HT
400302	J10	Diagonal Hip			1	I41303209
Wheeler Lumber, Waverly, KS 66871			240 s Mar		Job Reference (optional)	
			ID:bWuMDbN0tjF5cDvSpwhpH1zCzbQ-MqOlPpKk4eBtzQaFMSwcheTfgOlwiPQF?eOnPZzGs6G		9 2020 MiTek Industries, Inc. Wed May 13 16:45:17 2020 Page 2	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-29(F=-14, B=-14) 10=-53(F=-27, B=-27) 11=-90(F=-45, B=-45)

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/11/2020

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 15 HT
400302	J11	Jack-Open		1		I41303210
Wheeler Lumber, Waverly, KS 66871			ID: bWuMDbN0tjF5cDvSpwH1zCzbQ-q0y70llyrxJkba8Rw9RrEs0wqn75RvkPD18Kx?zGs6F 06/11/2020			
			240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:18 2020 Page 1 0-10-8 2-3-8 6-5-4 4-1-12			

Scale = 1:20.7

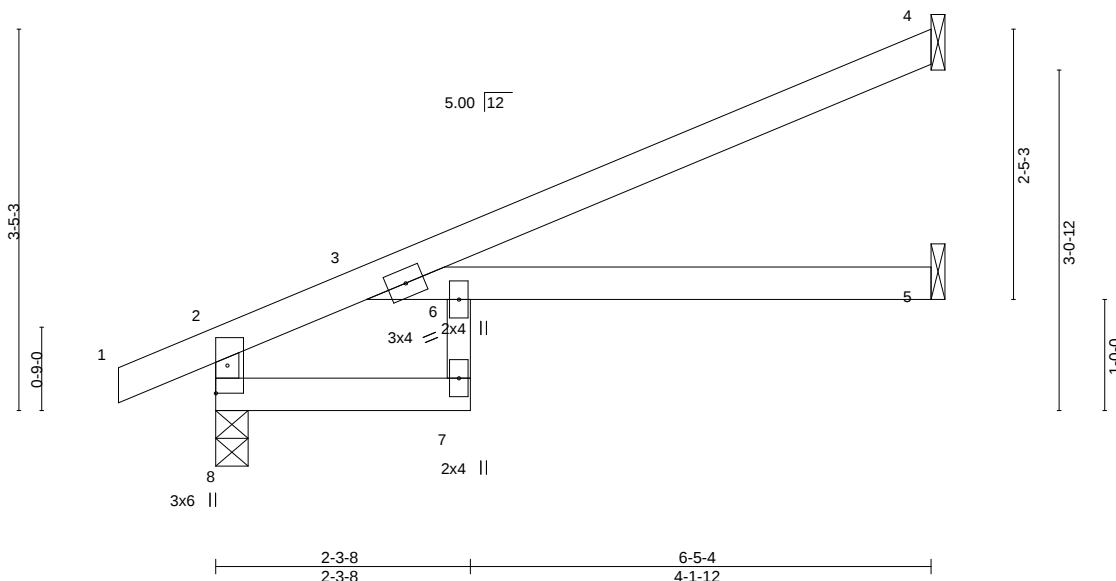


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [8:0-0-0,0-1-4]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.55		Vert(LL) -0.10 5-6 >732 360		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.48		Vert(CT) -0.21 5-6 >367 240			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.02		Horz(CT) 0.11 5 n/a n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.08 5-6 >918 240		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.

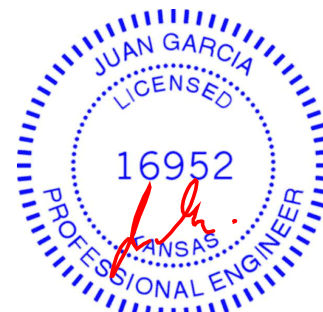
(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=80(LC 8)
 Max Uplift 4=48(LC 8)
 Max Grav 8=368(LC 1), 4=187(LC 1), 5=119(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-364/21

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) 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.



May 14, 2020

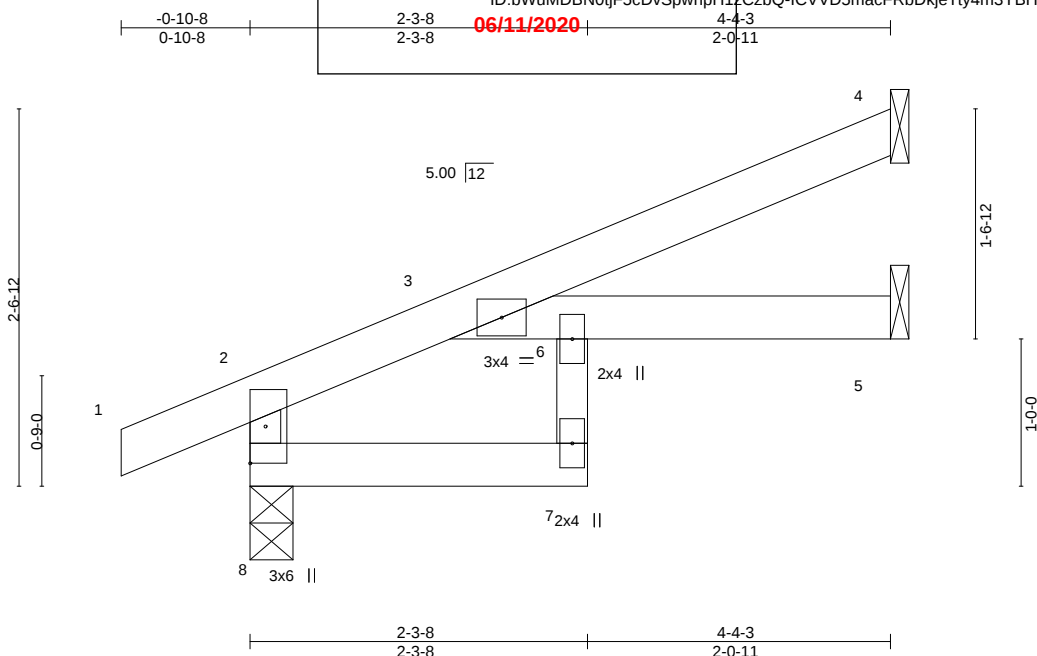
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss J12	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMdbN0tjF5cDvSpwhpH1zCzbQ-ICVVD5macFRbDKjeTy4m3YBHBWVAMEYSyUURzGs6E 06/11/2020		Lot 15 HT Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:19 2020 Page 1 240 s Mar 12 2020 MiTek Industries, Inc. Wed May 13 16:45:19 2020 Page 1
Wheeler Lumber, Waverly, KS 66871					



Scale = 1:15.6

Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [8:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18
TCDL 10.0	Lumber DOL	1.15	BC 0.22
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.02 7 >999 360
			Vert(CT) -0.04 6 >999 240
			Horz(CT) 0.02 5 n/a n/a
			Wind(LL) 0.02 7 >999 240
			PLATES MT20 GRIP 197/144
			Weight: 13 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-7: 2x3 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-3 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=78(LC 8)
 Max Uplift 8=-31(LC 8), 4=-50(LC 8), 5=-2(LC 8)
 Max Grav 8=275(LC 1), 4=113(LC 1), 5=87(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-259/55

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.



May 14, 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 15 HT
400302	J13	Jack-Open	2-4-3 2-4-3		1	I41303212
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-mP3tRRmCNZZSqtIq1aTJJH5NvbvcvpUhhcdR0uzGs6D						
		-0-10-8 0-10-8				

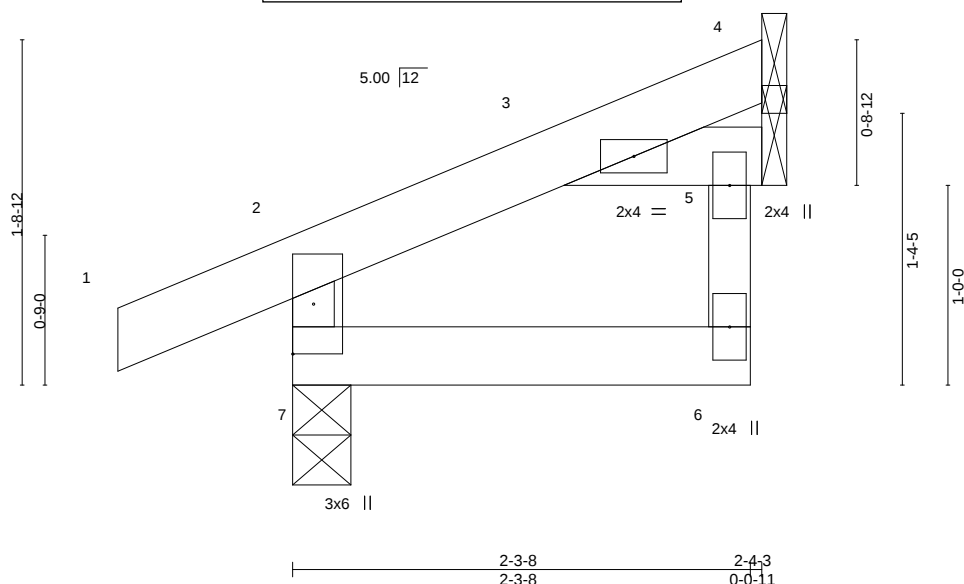


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [7:0-0-0,0-1-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	3	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00	3	>999	240	Weight: 9 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 5-6: 2x3 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

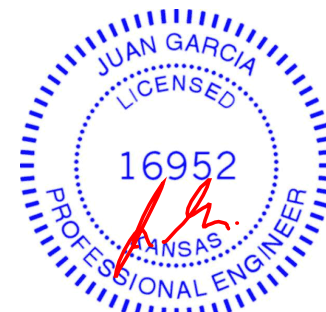
TOP CHORD Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=44(LC 8)
 Max Uplift 7=-28(LC 4), 4=-18(LC 8), 5=-6(LC 8)
 Max Grav 7=183(LC 1), 4=41(LC 1), 5=71(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) 7, 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.



May 14, 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: bWuMdbN0tjF5cDvSpwphH1zCzbQ-FbdGennr8shJS1t0bH?YrUdVo?DPeGkrwGM?YKzGs6C 06/11/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 15 HT			I41303213
400302	J15	Diagonal Hip		1	Job Reference (optional)			
Wheeler Lumber,		Waverly, KS 66871		240 s Mar		9 2020 MiTek Industries, Inc. Wed May 13 16:45:21 2020 Page 1		
		-1-2-14 1-2-14		4-8-13 4-8-13		1zCzbQ-FbdGennr8shJS1t0bH?YrUdVo?DPeGkrwGM?YKzGs6C		

Scale = 1:13.5

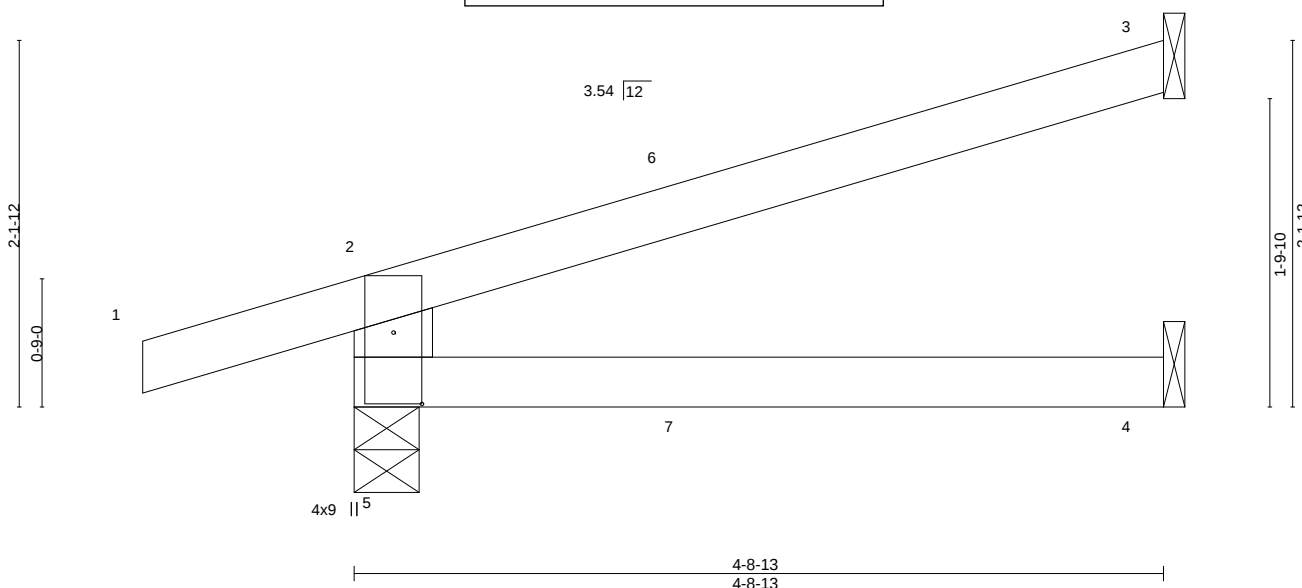


Plate Offsets (X,Y)--		[5:0-5-0,0-2-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.02 4-5	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.04 4-5	>999	240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01 3	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240
				PLATES	GRIP		
				MT20	197/144		
				Weight: 13 lb	FT = 10%		

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-13 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=68(LC 4)
 Max Uplift 5=-94(LC 4), 3=-60(LC 8)
 Max Grav 5=317(LC 1), 3=133(LC 1), 4=82(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-281/132

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 20 lb up at 1-11-15, and 66 lb down and 20 lb up at 1-11-15 on top chord, and 3 lb down and 2 lb up at 1-11-15, and 3 lb down and 2 lb up at 1-11-15 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=4(F=2, B=2)



May 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss J16	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMDbN0tjF5cDvSpwhp 06/11/2020	Ply 1	Lot 15 HT I41303214 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:21 2020 Page 1 H1zCzbQ-FbdGennr8shJS1t0bH?YrUdXK?EseGkrwGM?YKzGs6C
Wheeler Lumber, Waverly, KS 66871			-0-10-8 0-10-8 5 3-5-4 3-5-4		

Scale = 1:13.8

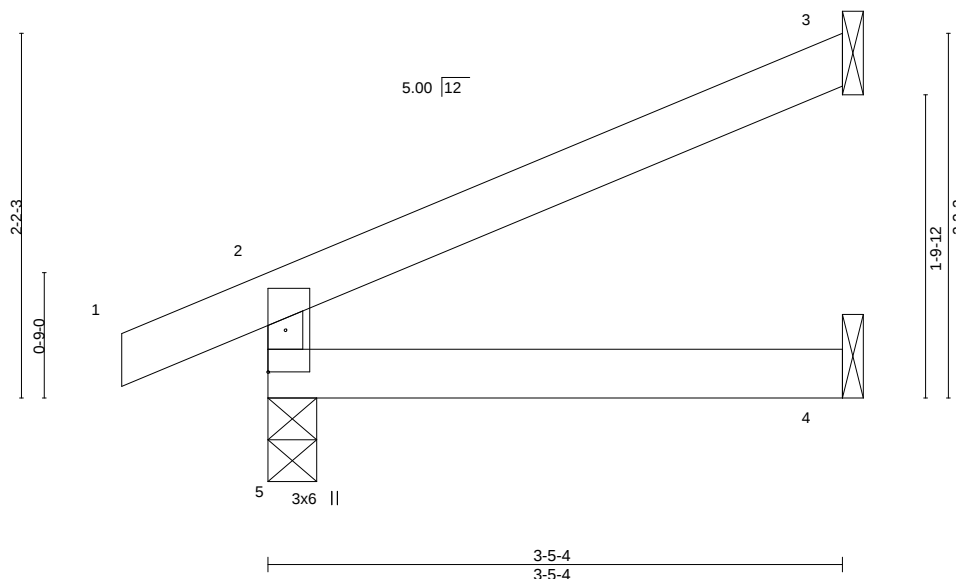


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01 4-5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01 4-5 >999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01 3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 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 3-5-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

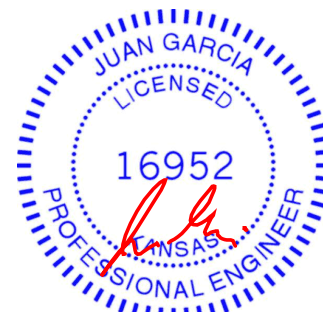
(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=63(LC 8)
 Max Uplift 5=-33(LC 8), 3=-54(LC 8)
 Max Grav 5=226(LC 1), 3=101(LC 1), 4=62(LC 3)

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.



May 14, 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 06/11/2020					
Job	Truss	Truss Type	Girder	Ply	Lot 15 HT			
400302	J17	Diagonal Hip		1	I41303215			
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)						
		9 2020 MiTek Industries, Inc. Wed May 13 16:45:23 2020 Page 1						
		ID:bWuMDbN0tjF5cDvSpwH1zCzbQ-B_I03Tp5gUx1hL1Pii10wvjidoph6AD8Nar5dDzGs6A						

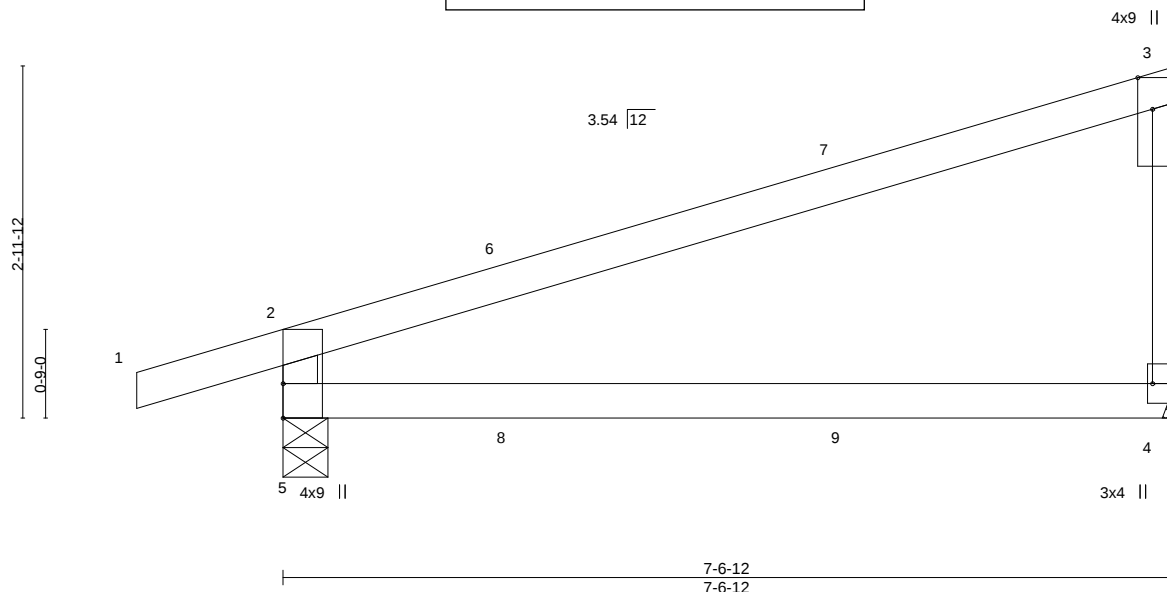


Plate Offsets (X,Y)--	[2:0-0-8,0-1-12], [3:0-3-3,Edge], [4:Edge,0-2-8], [5:0-0-0,0-1-12]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL) -0.11	4-5 >765 360
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT) -0.25	4-5 >355 240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT) 0.00	4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL) 0.05	4-5 >999 240
				Weight: 21 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=0-4-9, 4=Mechanical
Max Horz 5=122(LC 5)
Max Uplift 5=-124(LC 4), 4=-82(LC 8)
Max Grav 5=438(LC 1), 4=329(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-383/182

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=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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 20 lb up at 1-11-15, 66 lb down and 20 lb up at 1-11-15, and 87 lb down and 62 lb up at 4-9-14, and 87 lb down and 62 lb up at 4-9-14 on top chord, and 3 lb down and 2 lb up at 1-11-15, 3 lb down and 2 lb up at 1-11-15, and 17 lb down at 4-9-14, and 17 lb down at 4-9-14 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=-3(F=-1, B=-1) 8=4(F=2, B=2) 9=-13(F=-7, B=-7)



May 14, 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 ID:bWuMDBN0tjF5cDvSpwhH1zCzbQ-fAJOHoqjRn3uJVcbGQYFT7F_xCDurdTHcDbf9fzGs69 06/11/2020	Ply	Lot 15 HT
400302	J18	Jack-Open		1	I41303216
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)			

9 2020 MiTek Industries, Inc. Wed May 13 16:45:24 2020 Page 1

0-10-8

0-10-8

5-5-4

5-5-4

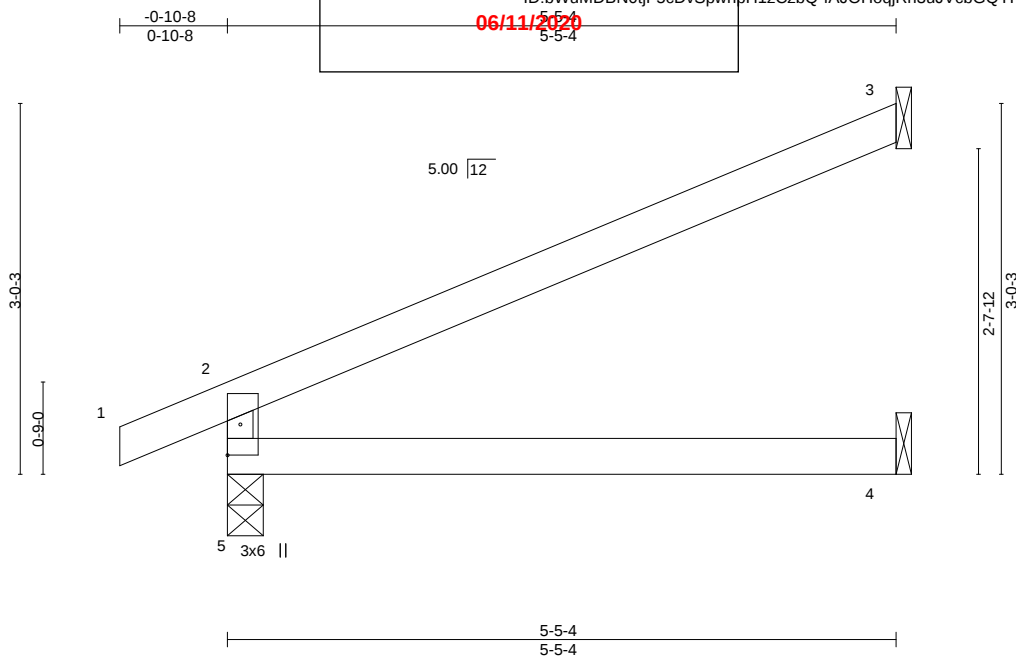


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.04 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.08 4-5 >769 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02 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 5-5-4 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=68(LC 8)
 Max Uplift 5=-4(LC 8), 3=-50(LC 8)
 Max Grav 5=312(LC 1), 3=168(LC 1), 4=100(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-270/46

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) 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.



May 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss J19	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020	Ply 1	Lot 15 HT I41303217
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:25 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwH1zCzbQ-7MtmU8qLC5BlxIBnq73U0KoDTcbua4jRqtKCh5zGs68			
		-0-10-8 0-10-8			

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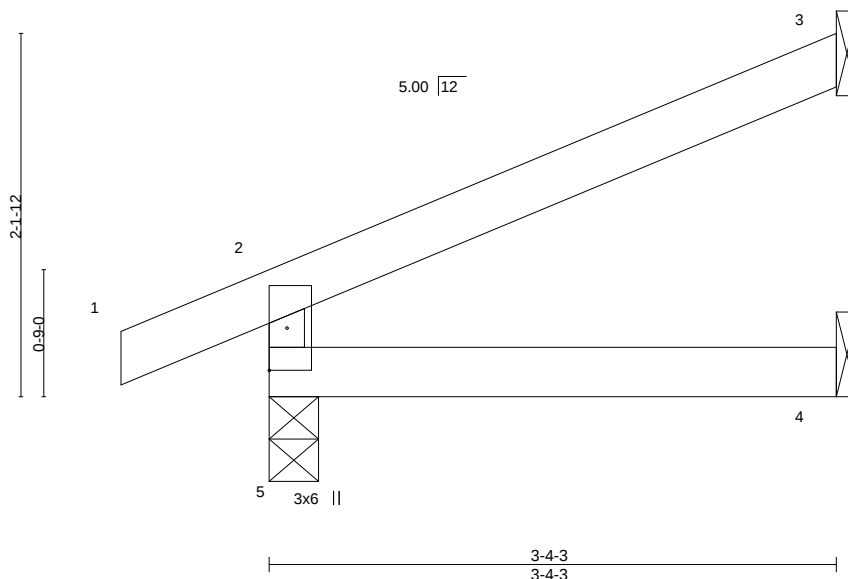


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01 4-5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01 4-5 >999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01 3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 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 3-4-3 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=61(LC 8)
Max Uplift 5=-32(LC 8), 3=-53(LC 8)
Max Grav 5=222(LC 1), 3=98(LC 1), 4=60(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.



May 14, 2020

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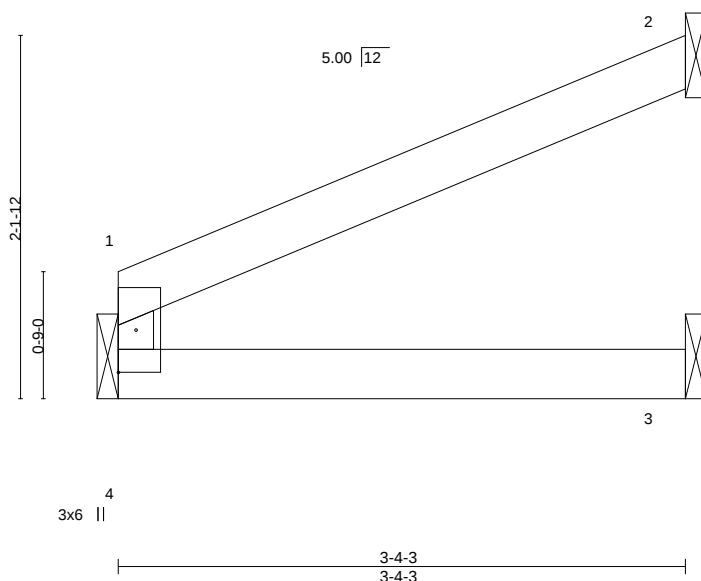


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020			Lot 15 HT	I41303218
400302	J20	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:27 2020 Page 1
ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-3l_XvqsbkiSSAyLaxY5z5ltZeQHJ2zDjlBpJm_zGs66



Scale = 1:13.6

Plate Offsets (X,Y)-- [1:0-0-8,0-1-4], [4:0-0-0,0-1-4]												
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	0.16	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00	3-4	>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 3-4-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=47(LC 8)
Max Uplift 4=-8(LC 8), 2=-55(LC 8)
Max Grav 4=143(LC 1), 2=105(LC 1), 3=61(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.



May 14, 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:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-XxYv6AtEV0aJo6vMVGdCdZQlmpednQTtXrZslQzGs65 06/11/2020			Lot 15 HT	I41303219
400302	J21	Diagonal Hip Girder				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:28 2020 Page 1 1-2-14 1-2-14 2-1-0 2-1-0			

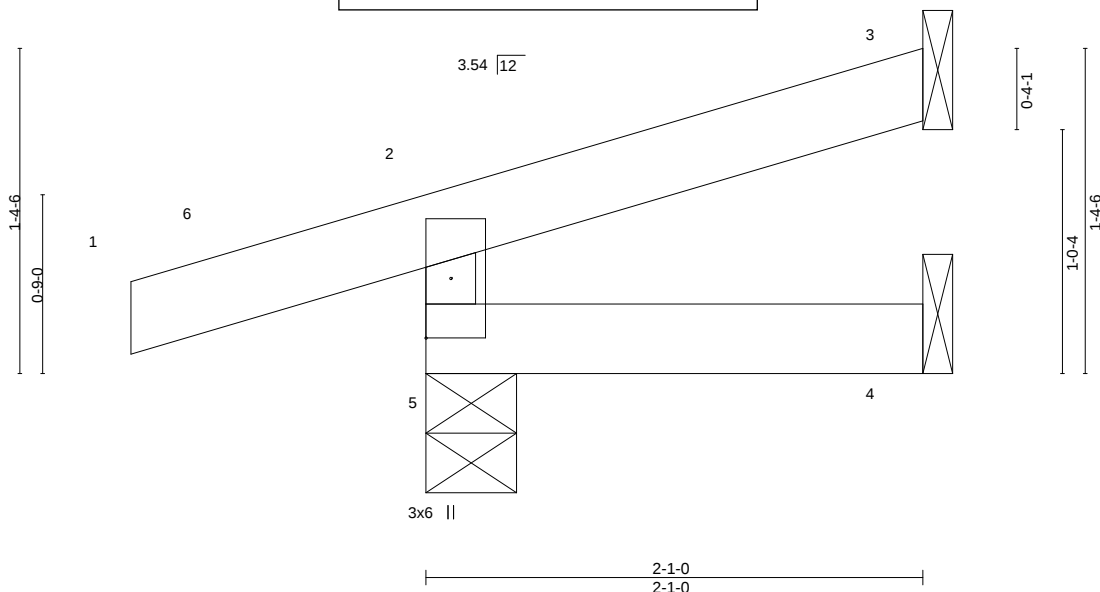


Plate Offsets (X,Y)--		[2:0-0-6,0-1-4], [5:0-0-0,0-1-4]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.07		Vert(LL) -0.00 5 >999 360		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.02		Vert(CT) -0.00 5 >999 240			
BCLL 0.0 *		Rep 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 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 2-1-0 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=97(LC 6), 3=-24(LC 12)
 Max Grav 5=83(LC 1), 3=22(LC 1), 4=27(LC 3)

FORCES.

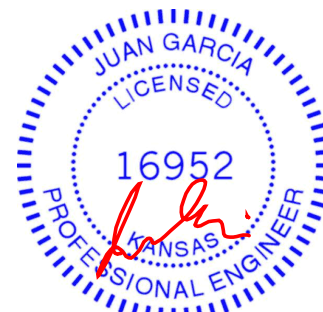
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.
- This truss 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) 14 lb down and 5 lb up at -1-2-14, and 14 lb down and 5 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=-21(F=-11, B=-11)
 Trapezoidal Loads (plf)
 Vert: 1=0(F=35, B=35)-to-6=-18(F=26, B=26), 6=0(F=35, B=35)-to-2=-15(F=27, B=27), 2=-15(F=27, B=27)-to-3=-50(F=10, B=10), 5=-4(F=8, B=8)-to-4=-14(F=3, B=3)



May 14, 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: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-086HKWtsGKiAPGUZ3z8RAAzwdD_zWti0lVlQqsZGs64 06/11/2020			Lot 15 HT	I41303220
400302	J22	Jack-Open				Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

9 2020 MiTek Industries, Inc. Wed May 13 16:45:29 2020 Page 1
H1zCzbQ-086HKWtsGKiAPGUZ3z8RAAzwdD_zWti0lVlQqsZGs64

-0-10-8 0-10-8 1-6-12 1-6-12

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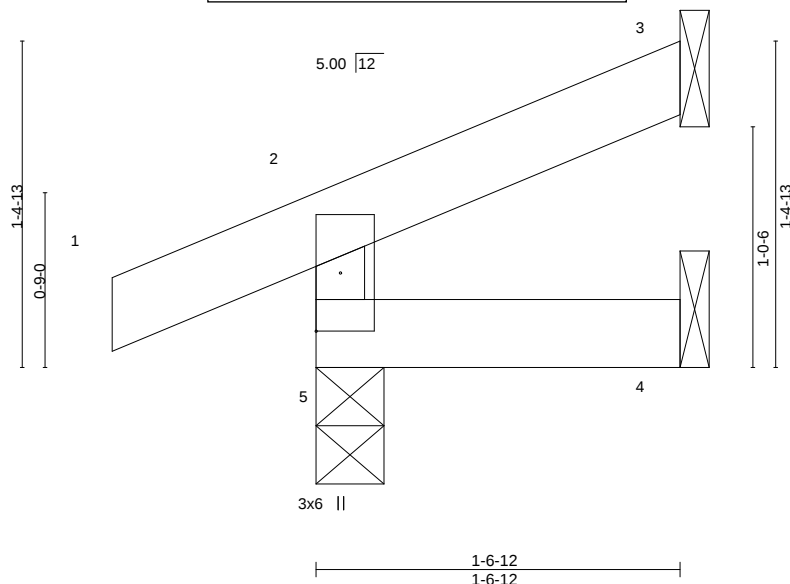


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.06		Vert(LL) -0.00	5	>999	360	MT20 197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.02		Vert(CT) -0.00	5	>999	240	
BCLL 0.0 *		Rep Stress 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: 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 1-6-12 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=35(LC 5)
Max Uplift 5=-33(LC 4), 3=-23(LC 8)
Max Grav 5=157(LC 1), 3=31(LC 1), 4=27(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.



May 14, 2020

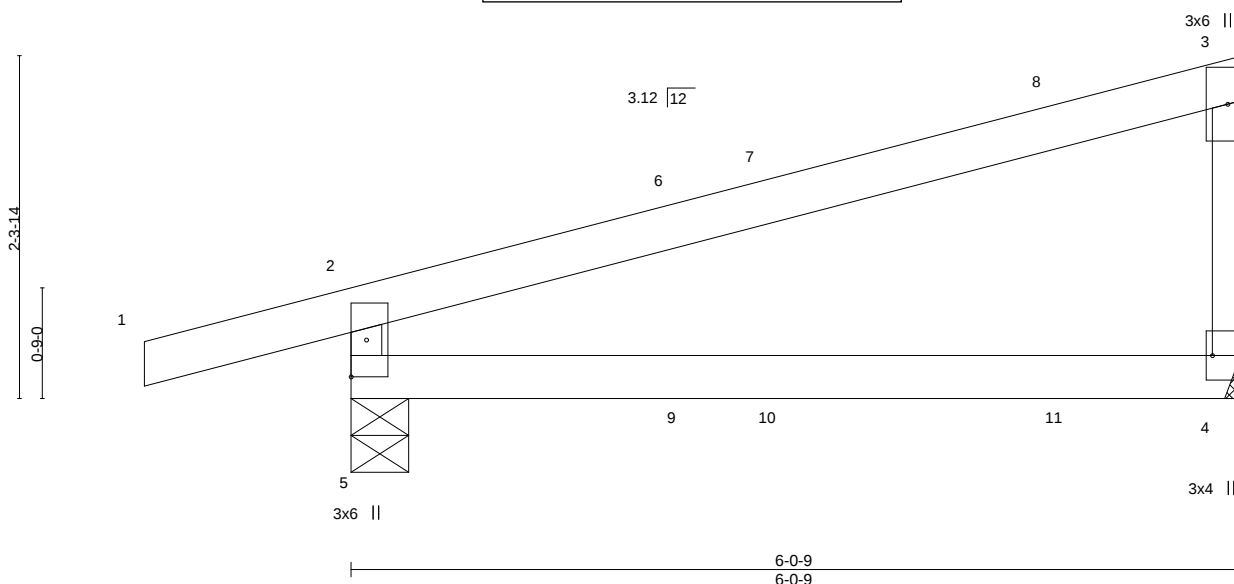
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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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:bWuMDBN0tjF5cDvSpwhp 06/11/2020			Lot 15 HT	I41303221
400302	J23	Diagonal Hip Girder	Ply	1		Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:31 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yWE1Cv6nxyufaexAOAvFb29H1bm_nCJDpnWvlzGs62					
-1-4-13 1-4-13		6-0-9 6-0-9					



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.10	4-5	>714	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: 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=0-4-11, 4=Mechanical
 Max Horz 5=92(LC 7)
 Max Uplift 5=-117(LC 4), 4=-61(LC 8)
 Max Grav 5=383(LC 1), 4=258(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-335/158

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=117.
- This truss 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 21 lb up at 2-3-15, and 77 lb down and 42 lb up at 2-11-5, and 75 lb down and 54 lb up at 4-10-10 on top chord, and 3 lb down and 2 lb up at 2-3-15, and 5 lb down at 2-11-5, and 16 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: 8=-4(B) 9=2(B) 10=-1(F) 11=-7(B)



May 14, 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 06/11/2020			Lot 15 HT	I41303222
400302	J24	Jack-Open	240 s Mar	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-QjoQyXwkYF4IGjD8k5h8opbQFR_rjESTSTX4RBzGs61					
		-0-10-8 0-10-8		3-0-1 3-0-1			

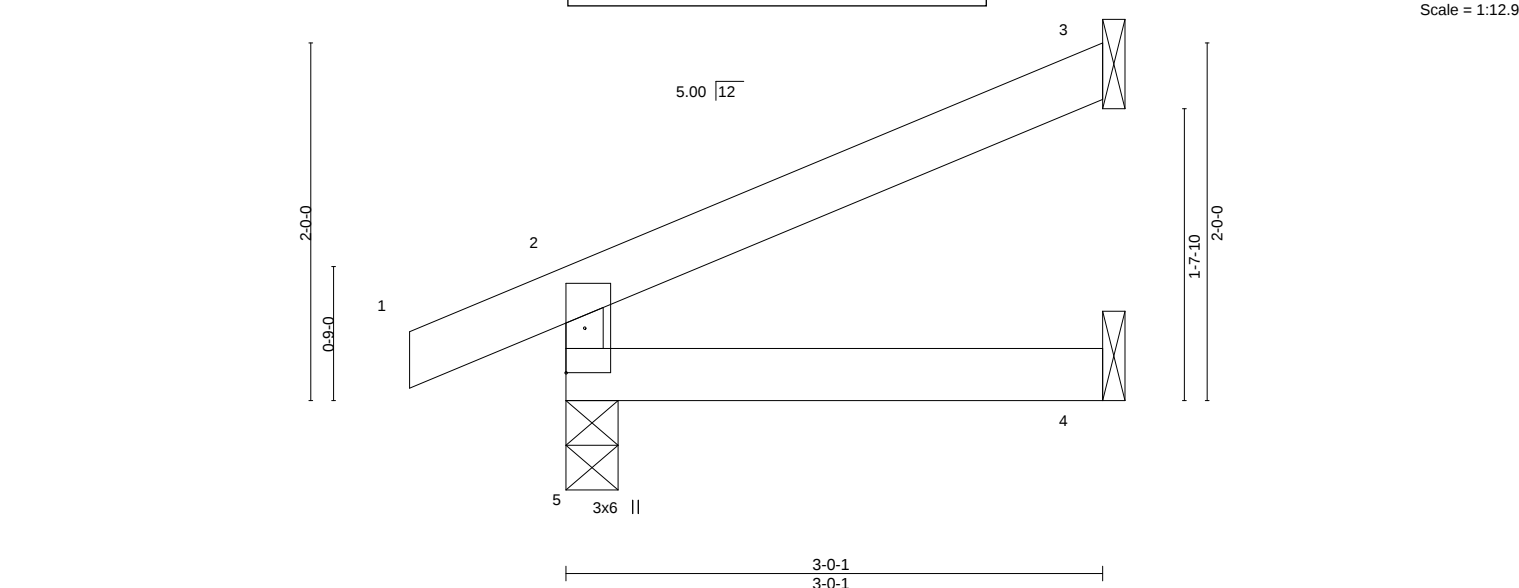


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00 4-5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01 4-5 >999	240	
BCLL	0.0 *	Rep Stress 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 4-5 >999	240	Weight: 9 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS.	(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
	Max Horz 5=56(LC 8)
	Max Uplift 5=-31(LC 8), 3=-47(LC 8)
	Max Grav 5=208(LC 1), 3=85(LC 1), 4=54(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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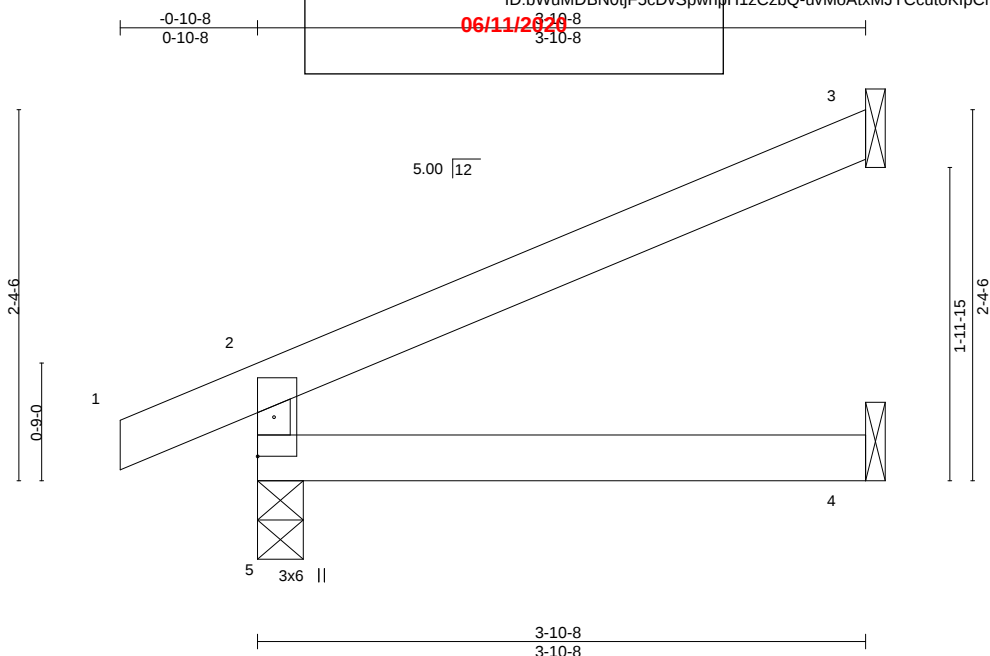
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.	 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 15 HT
400302	J25	Jack-Open	06/11/2020	1	1	I41303223
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)				
ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-uvMoAtxMJYCcutoklpCNK07ZVqKDShicg7GdzdzGs60 9 2020 MiTek Industries, Inc. Wed May 13 16:45:33 2020 Page 1						



Scale = 1:14.7

Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01 4-5	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02 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: 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 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

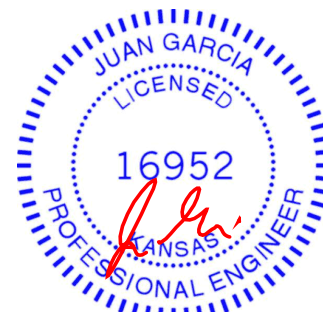
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=70(LC 8)
Max Uplift 5=-34(LC 8), 3=-61(LC 8)
Max Grav 5=244(LC 1), 3=116(LC 1), 4=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.



May 14, 2020

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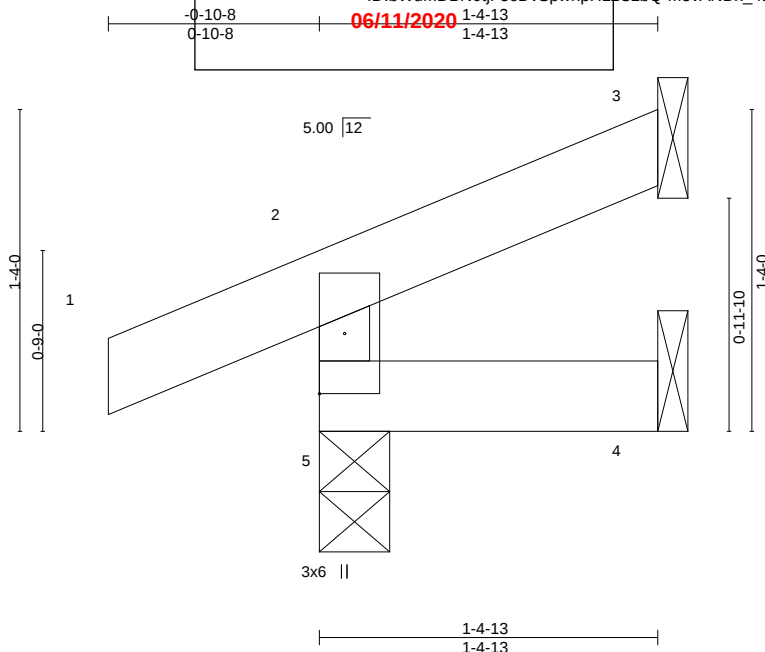


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Release for Construction AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 15 HT
400302	J26	Jack-Open	06/11/2020	1	I41303224

Wheeler Lumber, Waverly, KS 66871

240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:34 2020 Page 1
ID:bWuMdbN0tjF5cDvSpwhpH1zCzbQ-M5vANDx_4sKTW1NWsWjctEgmMEhCB8ylvn0BV4zGs6?



Scale = 1:9.6

Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
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	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 1-4-13 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=34(LC 5)
Max Uplift 5=-34(LC 4), 3=-19(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.



May 14, 2020

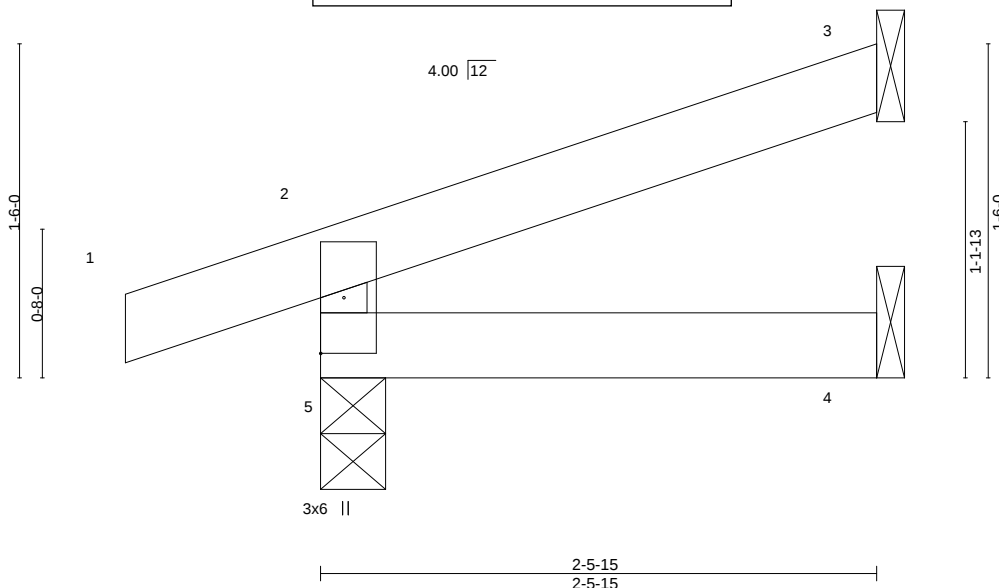
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss J27	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020	Ply 1	Lot 15 HT I41303225
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:36 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwphH1zCzbQ-IU1wovzFcTaBILXvxm4yfl7t2NAe2R2M5VHZyzGs5z			Job Reference (optional)
		-0-10-8 0-10-8 2-5-15 2-5-15			



Scale = 1:10.3

Plate Offsets (X,Y)-- [2:0-0-7,0-1-4], [5:0-0-0,0-1-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00 4-5	>999	360
TCDL 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 2-5-15 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=43(LC 4)
Max Uplift 5=58(LC 4), 3=34(LC 8)
Max Grav 5=188(LC 1), 3=67(LC 1), 4=44(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.



May 14, 2020

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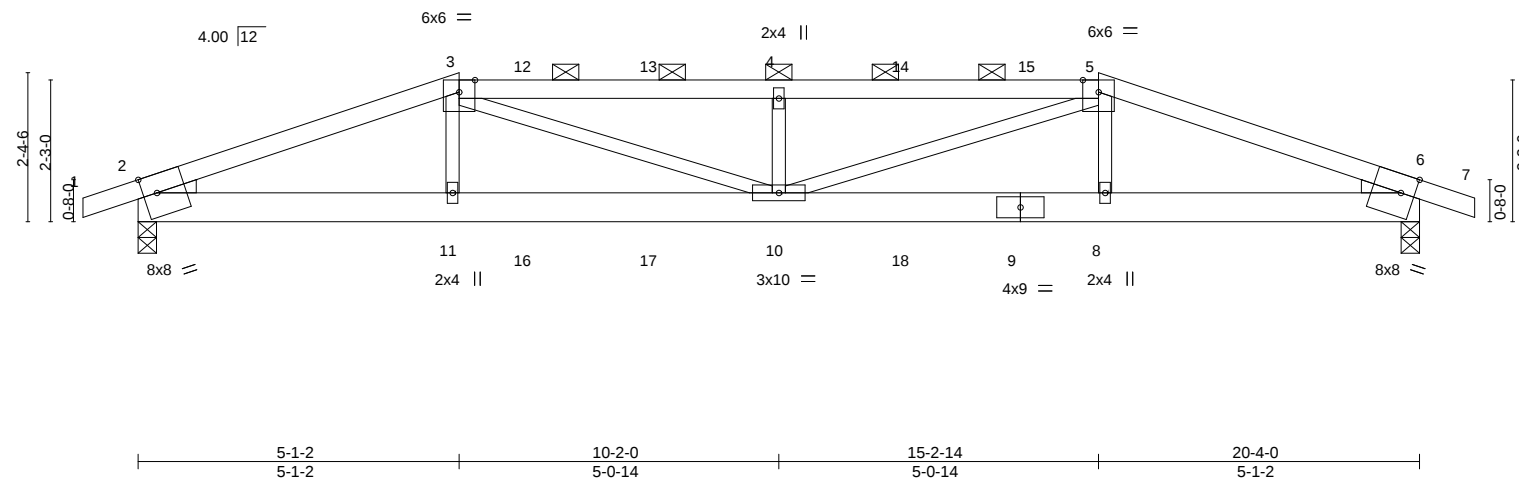
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Lot 15 HT	I41303226
400302	K1	Hip Girder	ID: bWuMdbN0tjF5cDvSpwhpH1zCzbQ-40WyTe3Gjxb2jZ8RRdvyHL4H4Gu6WbaECLRjrVzGs5r		1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:44 2020 Page 1					
0-10-8	5-1-2	10-2-0	15-2-14	20-4-0	21-2-8		
0-10-8	5-1-2	5-0-14	5-0-14	5-1-2	0-10-8		

Scale = 1:36.6



LOADING (psf)		SPACING	CSI	DEFL.	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	TC 0.95	in (loc)	MT20	197/144
TCDL	10.0	Lumber DOL	BC 0.87	l/defl		
BCLL	0.0 *	Rep Stress Incr	WB 0.37	L/d		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	Weight: 76 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-4 oc purlins, except
BOT CHORD	2x6 SPF No.2		2-0-0 oc purlins (2-2-12 max.): 3-5.
WEBS	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 9-2-14 oc bracing.
WEDGE			
Left: 2x3 SPF No.2, Right: 2x3 SPF No.2			

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=34(LC 33)
	Max Uplift 2=340(LC 4), 6=340(LC 5)
	Max Grav 2=1369(LC 1), 6=1369(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3066/704, 3-4=-3699/879, 4-5=-3699/879, 5-6=-3066/705
BOT CHORD	2-11=-630/2796, 10-11=-629/2775, 8-10=-604/2774, 6-8=-605/2796
WEBS	3-11=-20/400, 3-10=-262/1090, 4-10=-599/277, 5-10=-262/1090, 5-8=-21/400

- 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) 2=340, 6=340.
 - This truss 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) 83 lb down and 70 lb up at 6-2-0, 83 lb down and 70 lb up at 8-2-0, 83 lb down and 70 lb up at 10-2-0, and 83 lb down and 70 lb up at 12-2-0, and 83 lb down and 70 lb up at 14-2-0 on top chord, and 226 lb down and 93 lb up at 5-1-2, 31 lb down at 6-2-0, 31 lb down at 8-2-0, 31 lb down at 10-2-0, 31 lb down at 12-2-0, and 31 lb down at 14-2-0, and 226 lb down and 93 lb up at 15-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
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May 14, 2020

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020			Lot 15 HT
400302	K1	Hip Girder		1		I41303226
Wheeler Lumber, Waverly, KS 66871			ID:bWuMdbN0tjF5cDvSpwhpH1zCzbQ-40WyTe3Gjxb2jZ8RRdvyHL4H4Gu6WbaECLRjrVzGs5r			

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-22(B) 11=-226(B) 10=-22(B) 4=-46(B) 8=-226(B) 12=-46(B) 13=-46(B) 14=-46(B) 15=-46(B) 16=-22(B) 17=-22(B) 18=-22(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

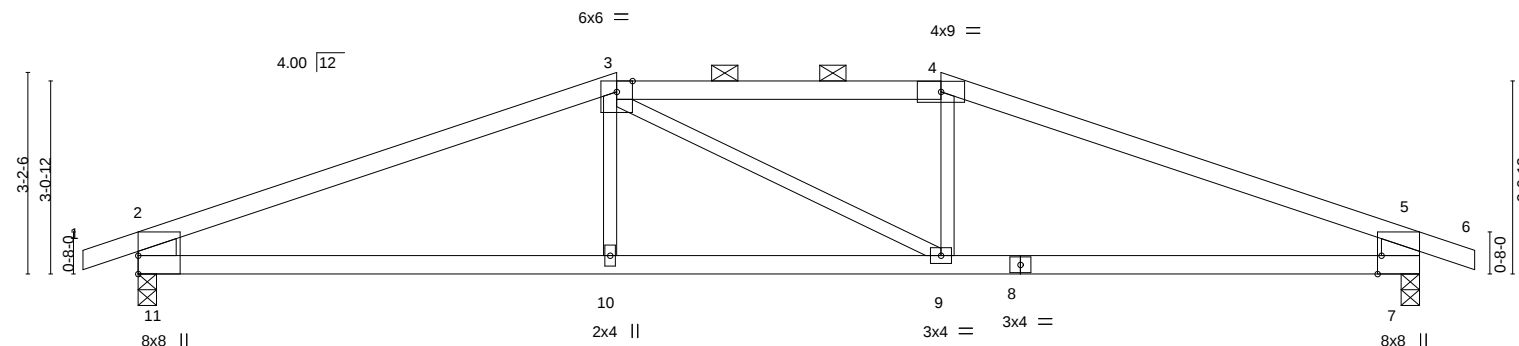
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400302	Truss K2	Truss Type Hip	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/13/2020		Lot 15 HT I41303227 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:45 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhp1zCzbQ-YD4Kh_4uUEjvKjld?KQBqYdWOglgF44NR?AGNxzGs5q
Wheeler Lumber, Waverly, KS 66871			12-8-14 5-1-12 20-4-0 7-7-2 21-2-8 0-10-8		

Scale = 1:36.6



	7-7-2	12-8-14	20-4-0
	7-7-2	5-1-12	7-7-2
Plate Offsets (X,Y)--	[2:0-1-3,0-3-10], [5:0-1-3,0-3-10], [7:0-0-0,0-3-10], [7:0-3-8,Edge], [11:0-0-0,0-3-10]		

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)	-0.12	9-10	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.24	9-10	>990	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08	9-10	>999	240	Weight: 60 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*	TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 3-4.
3-4: 2x4 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*	
2-11,5-7: 2x8 SP DSS	

REACTIONS.	(size) 11=0-3-8, 7=0-3-8
	Max Horz 11=33(LC 8)
	Max Uplift 11=-197(LC 4), 7=-197(LC 5)
	Max Grav 11=970(LC 1), 7=970(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1639/256, 3-4=-1460/278, 4-5=-1639/255, 2-11=-881/241, 5-7=-882/241
BOT CHORD	10-11=-190/1464, 9-10=-193/1460, 7-9=-164/1464

- 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) 11=197, 7=197.
 - This truss 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 06/11/2020			Ply	Lot 15 HT	I41303228
400302	K3	Common	1			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:46 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhpH1zCzbQ-0PeiuK5WfYrmytHqZ2xQMmAf4eL_Y5WgfwpwNzGs5p					
0-10-8	4-0-3	10-2-0	16-3-13			20-4-0	21-2-8	
0-10-8	4-0-3	6-1-13	6-1-13			4-0-3	0-10-8	

Scale = 1:35.4

Scale = 1:35.4

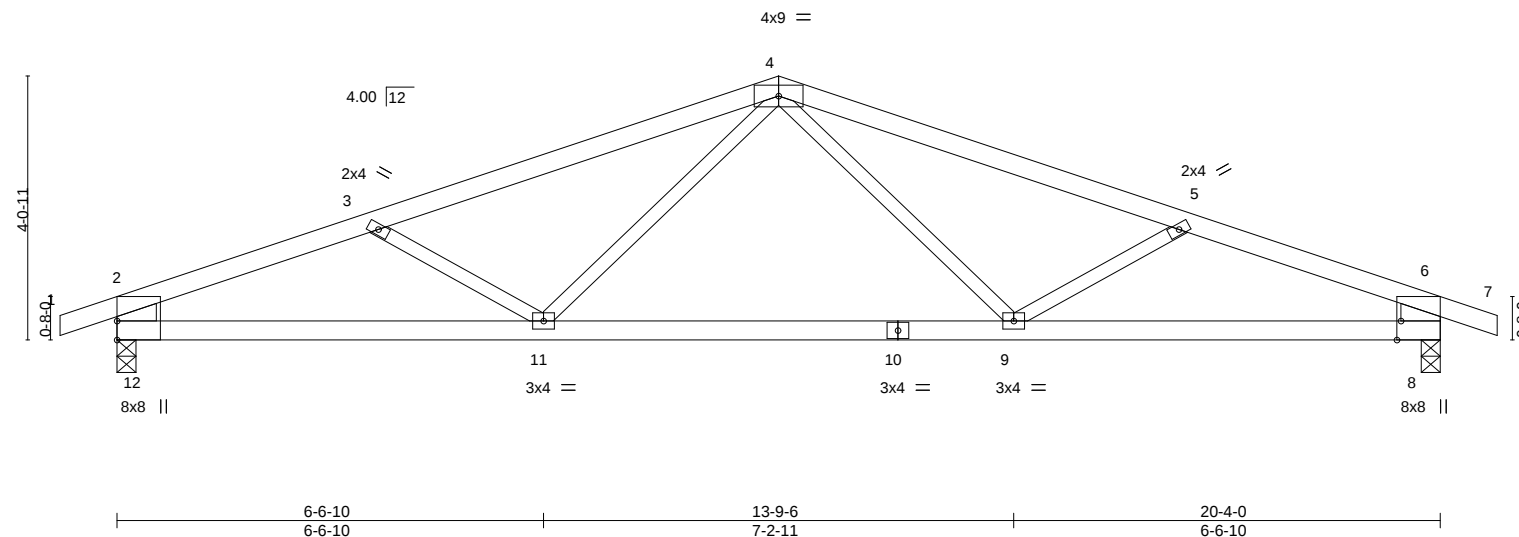


Plate Offsets (X,Y)-- [2:0-1-3,0-3-10], [6:0-1-3,0-3-10], [8:0-0-0,0-3-10], [8:0-3-8,Edge], [12:0-0-0,0-3-10]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.32	9-11	>730	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12	9-11	>999	240	Weight: 65 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-12,6-8: 2x8 SP 2400F 2.0E	

REACTIONS.	(size) 12=0-3-8, 8=0-3-8
	Max Horz 12=49(LC 8)
	Max Uplift 12=-180(LC 4), 8=-180(LC 5)
	Max Grav 12=970(LC 1), 8=970(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1713/290, 3-4=-1502/196, 4-5=-1502/196, 5-6=-1713/290, 2-12=-888/206, 6-8=-888/206
BOT CHORD	11-12=-263/1537, 9-11=-105/1179, 8-9=-226/1537
WEBS	4-9=-12/348, 5-9=-255/195, 4-11=-11/348, 3-11=-255/195

- 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 (it=lb) 12=180, 8=180.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



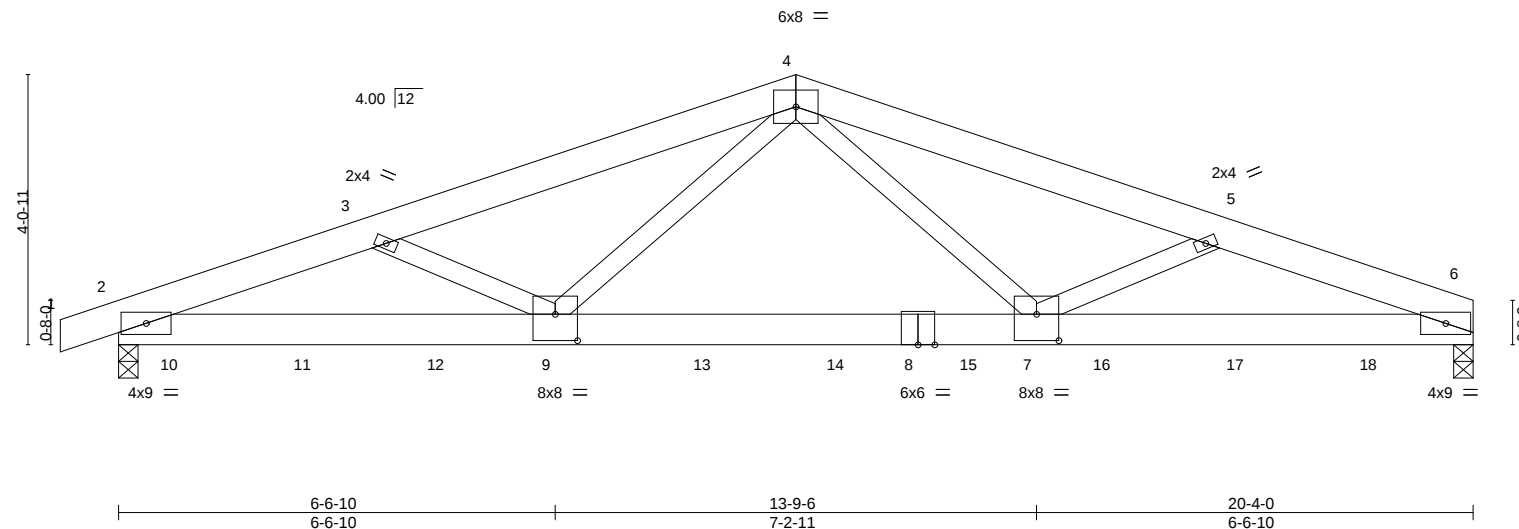
16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/11/2020

Job 400302	Truss K4	Truss Type Common Girder	Ply 2	Lot 15 HT I41303229
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)		

ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-UbC56g580sda1s06lSfvzisvUwJjt?gulfNsqzGs5o
 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:47 2020 Page 1
 0-10-8 4-0-3 10-2-0 16-3-13 20-4-0
 0-10-8 4-0-3 6-1-13 6-1-13 4-0-3

Scale = 1:34.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.20	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.35				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.07				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.10	Weight: 211 lb		FT = 10%	

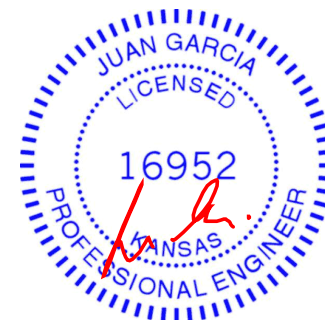
LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-1-8 oc purlins.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	6=0-3-8 (req. 0-3-15), 2=0-3-8 (req. 0-4-5)
Max Horz	2=67(LC 33)
Max Uplift	6=-192(LC 5), 2=-264(LC 4)
Max Grav	6=4994(LC 1), 2=5496(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-10646/477, 3-4=-10820/354, 4-5=-11181/234, 5-6=-10961/376
BOT CHORD	2-9=-459/9872, 7-9=-171/7192, 6-7=-323/10155
WEBS	4-7=0/4792, 5-7=-183/795, 4-9=-141/4308, 3-9=-197/719

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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.
 - WARNING: Required bearing size at joint(s) 6, 2 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=192, 2=264.
 - This truss 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) 901 lb down and 35 lb up at 0-10-0, 862 lb down and 32 lb up at 2-10-0, 853 lb down and 32 lb up at 4-10-0, 853 lb down and 32 lb up at 6-10-0, 853 lb down and 32 lb up at 8-10-0, 853 lb down and 32 lb up at 10-10-0, 853 lb down and 30 lb up at 12-10-0, 850 lb down at 14-10-0, and 1651 lb down and 188 lb up at 16-10-0, and 123 lb down and 28 lb up at 18-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
Continued on page 2



May 14, 2020

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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 06/11/2020		Ply	Lot 15 HT
400302	K4	Common Girder			2	I41303229
Wheeler Lumber, Waverly, KS 66871				240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:47 2020 Page 2 ID:bWuMDBN0tjF5cDvSpwH1zCzbQ-UbC56g580szda1s06lSfvzsvUwJjt?gulfNSqzGs5o		

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, 2-6=-20
- Concentrated Loads (lb)
 - Vert: 9=-853(F) 10=-865(F) 11=-862(F) 12=-853(F) 13=-853(F) 14=-853(F) 15=-853(F) 16=-850(F) 17=-1651(F) 18=-123(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job
400302

Truss
LAY1

Truss Type
GABLE

Wheeler Lumber,
Waverly, KS 66871

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

ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-yomTJ06mn95UBBRCgS_uRBF9qtTCSTup7yPw_GzGs5n

06/11/2020

Ply
1

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:45:48 2020 Page 1

4-3-13

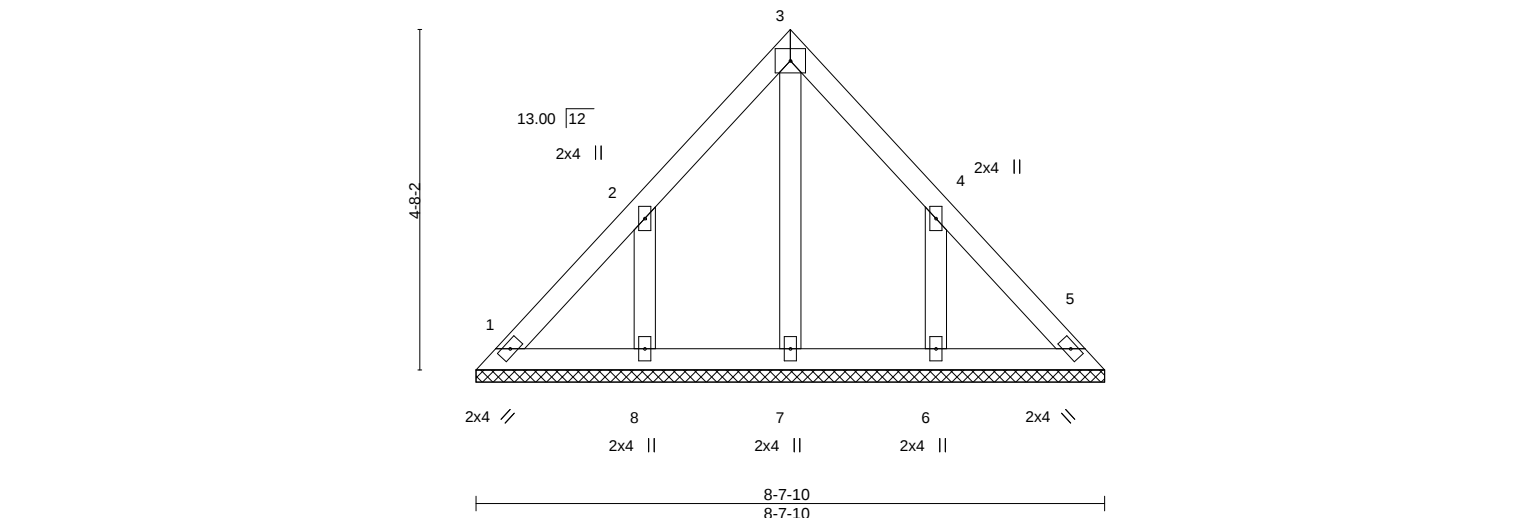
4-3-13

8-7-10

4-3-13

4x5 =

Scale = 1:31.7



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 0.06	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 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 32 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 8-7-10.
 (lb) - Max Horz 1=115(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-161(LC 8), 6=-161(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=161, 6=161.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14,2020

Job
400302

Truss
LAY2

Truss Type
GABLE

Wheeler Lumber,
Waverly, KS 66871

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

ID: bWuMDbN0tjF5cDvSpwH1zCzbQ-Q_JrWM7PYTDLPLOPEAV7_OoLqHpVBwEzMc8TWizGs5m

06/11/2020

Ply
1

Lot 15 HT
I41303231

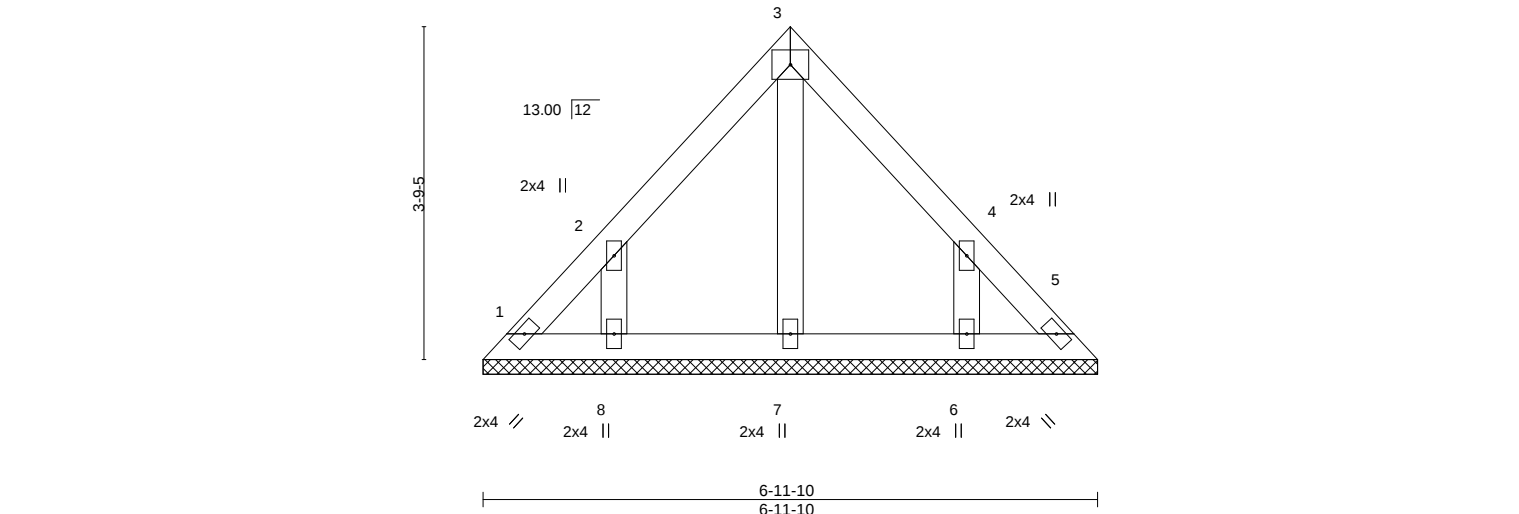
Job Reference (optional)
240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:49 2020 Page 1

3-5-13
3-5-13

6-11-10
3-5-13

4x5 =

Scale = 1:26.1



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 0.05	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 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 25 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 6-11-10.
 (lb) - Max Horz 1=91(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-137(LC 8), 6=-137(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

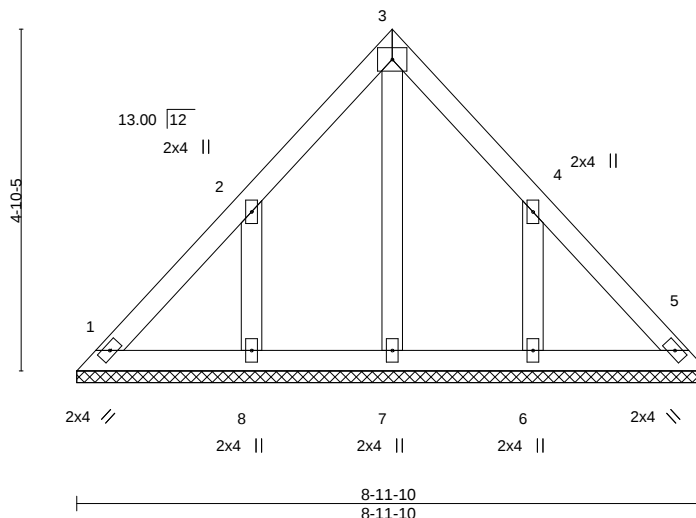
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=137, 6=137.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14,2020

Job 400302	Truss LAY3	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMdbN0tjF5cDvSpwH1zCzbQ-uAtDkh81JnLCRubb0t0MXcKVEh9dwNN6aGu138zGs5l 06/11/2020		Lot 15 HT I41303232 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:50 2020 Page 1
Wheeler Lumber, Waverly, KS 66871		4-5-13 4-5-13 8-11-10 4-5-13 4x5 =			

Scale = 1:32.8



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	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 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 34 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.

REACTIONS.

All bearings 8-11-10.
 (lb) - Max Horz 1=-120(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-168(LC 8), 6=-168(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=261(LC 15), 6=261(LC 16)

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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=168, 6=168.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 06-11-2020			Lot 15 HT	I41303233
400302	LAY4	GABLE	240 s Mar 9 2020	MiTek Industries, Inc.	Wed May 13 16:45:51 2020	Page 1	
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID:bWuMDbN0tjF5cDvSpwhH1zCzbQ-MMRbx18f44T22eAnLbXb3pth85UnfpRFpwdabbzGs5k					
7-11-3 7-11-3		31-11-10 7-11-3					

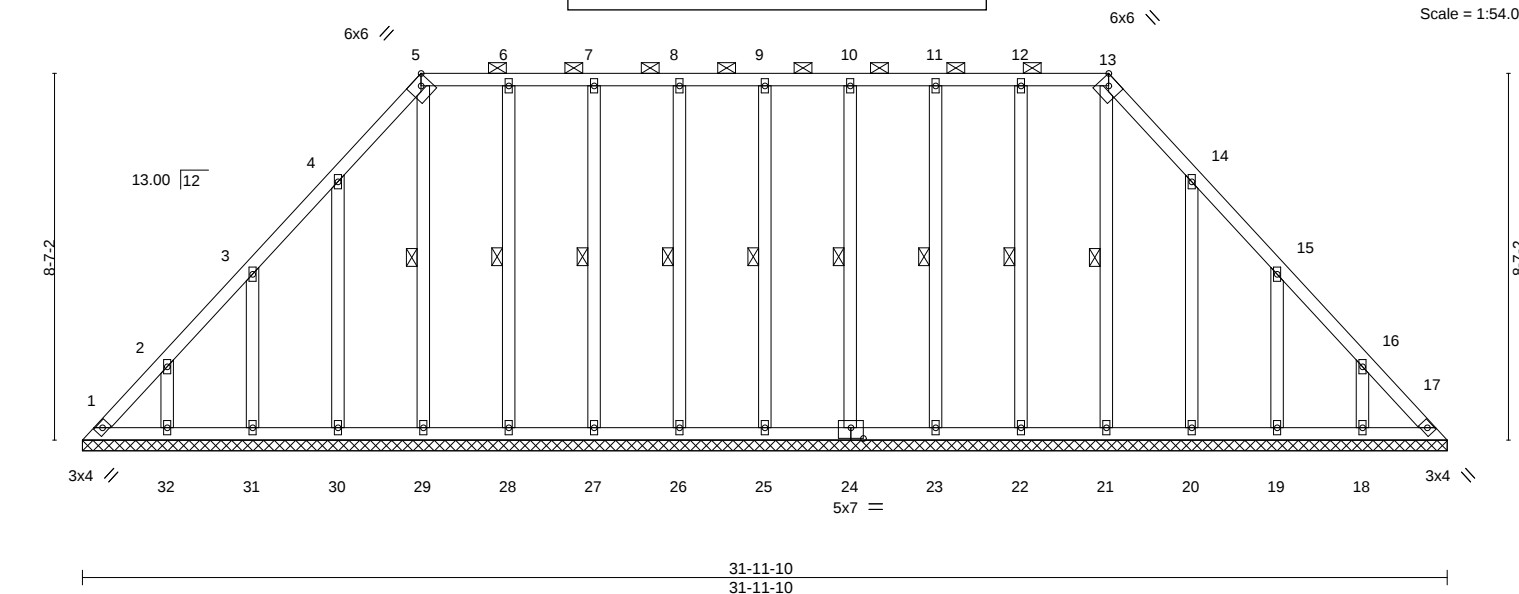


Plate Offsets (X,Y)--		[5:0-2-9,Edge], [13:0-2-9,Edge], [24:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.06	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 17 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 188 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 2-0-0 oc purlins (6-0-0 max.): 5-13.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 9-25, 8-26, 7-27, 6-28, 5-29, 10-24, 11-23, 12-22, 13-21
REACTIONS.	
All bearings 31-11-10.	
(lb) - Max Horz 1=221(LC 5)	
Max Uplift All uplift 100 lb or less at joint(s) 17, 25, 26, 27, 28, 29, 24, 23, 22 except 1=114(LC 6).	
30=135(LC 8), 31=130(LC 8), 32=131(LC 8), 20=134(LC 9), 19=130(LC 9), 18=131(LC 9)	
Max Grav All reactions 250 lb or less at joint(s) 1, 17, 25, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=284/215

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) 17, 25, 26, 27, 28, 29, 24, 23, 22 except (jt=lb) 1=114, 30=135, 31=130, 32=131, 20=134, 19=130, 18=131.
- This truss 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

400302

Truss

LAY5

Truss Type

GABLE

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/14/2020

4x5

Ply

1

Lot 15 HT

I41303234

Wheeler Lumber,

Waverly, KS 66871

240 s Mar

9 2020 MiTek Industries, Inc.

Wed May 13 16:45:53 2020

Page 1

ID: bWuMDBN0tjF5cDvSpwhpH1zCzbQ-JlZMMjAvcijmlyKAT0Z38Ey1huAB7jvYHE6hfTzGs5i

7-11-3

7-11-3

8-0-7

0-1-5

15-11-10

7-11-3

Scale = 1:50.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 79 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	WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 15-11-10.
 (lb) - Max Horz 1=-222(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-132(LC 8), 15=-131(LC 8), 16=-131(LC 8), 12=-130(LC 9), 11=-132(LC 9), 10=-131(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-295/189, 8-9=-262/140

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, 9 except (jt=lb) 14=132, 15=131, 16=131, 12=130, 11=132, 10=131.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

May 14,2020

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/11/2020	Ply	Lot 15 HT
400302	LAY6	GABLE		1	I41303235
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)			
ID:bWuMDBN0tjF5cDvSpwph1zCzbQ-nx7ka3BXN?rdv6vM1j4lhSV9RIVesA9IVusECwzGsSh					
7-11-3		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:54 2020 Page 1			
7-11-3		24-0-7 16-1-5 25-5-1 1-4-10			

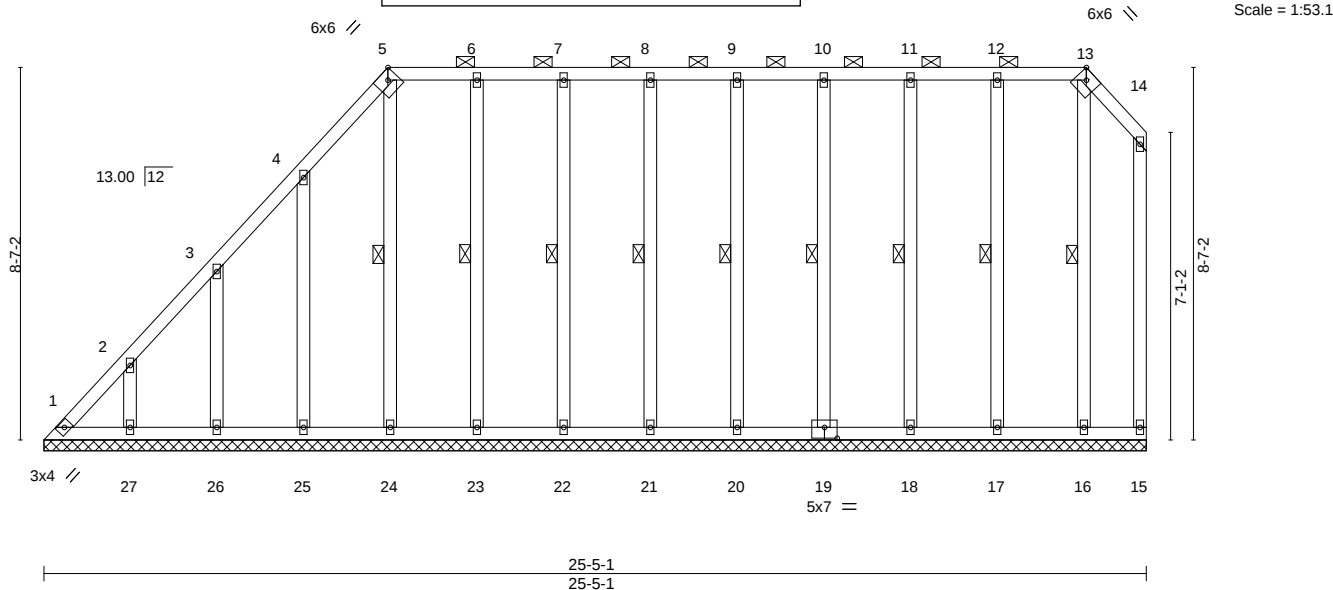


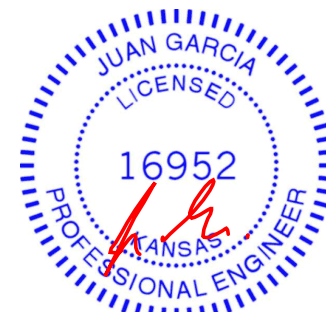
Plate Offsets (X,Y)--		[5:0-2-9,Edge], [13:0-2-9,Edge], [19:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.25	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) -0.00 15 n/a n/a
		PLATES MT20	
		GRIP 197/144	
		Weight: 166 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.): 5-13.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SPF No.2	6-0-0 oc bracing: 18-19,17-18,16-17.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 5-24, 6-23, 7-22, 8-21, 9-20, 10-19, 11-18, 12-17, 13-16

REACTIONS. All bearings 25-5-1.
 (lb) - Max Horz 1=311(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 23, 22, 21, 20, 19, 18, 17, 16 except 1=144(LC 6), 27=-131(LC 8), 26=-129(LC 8), 25=-136(LC 8), 24=-100(LC 5)
 Max Grav All reactions 250 lb or less at joint(s) 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16 except 1=256(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-351/256, 2-3=-282/208

- 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) 15, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 1=144, 27=131, 26=129, 25=136, 24=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.



May 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss LAY7	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMdBNOtjF5cDvSpwhpH1zCzbQ-F8h6nPC98JzUXGUYaQcXDf2NKisxbeorkYbokMzGs5g 06/11/2020		Lot 15 HT I41303236 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:55 2020 Page 1 H1zCzbQ-F8h6nPC98JzUXGUYaQcXDf2NKisxbeorkYbokMzGs5g
Wheeler Lumber, Waverly, KS 66871			6-11-2 6-11-2 9-5-9 2-6-7		

Scale = 1:17.6

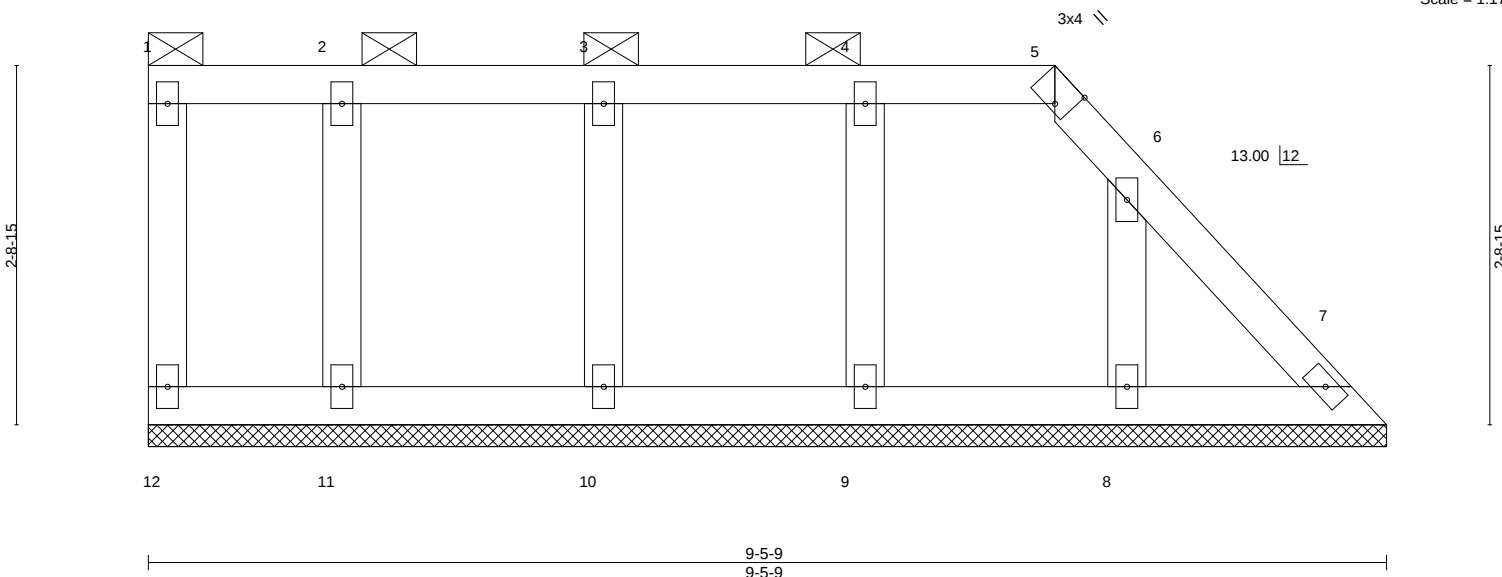


Plate Offsets (X,Y)--		[5:0-1-7,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	0.00	7	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 34 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.): 1-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

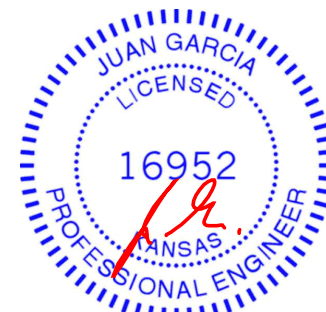
REACTIONS.

All bearings 9-5-9.
 (lb) - Max Horz 12=-98(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 11, 10, 9, 8
 Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 11, 10, 9, 8.
- 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

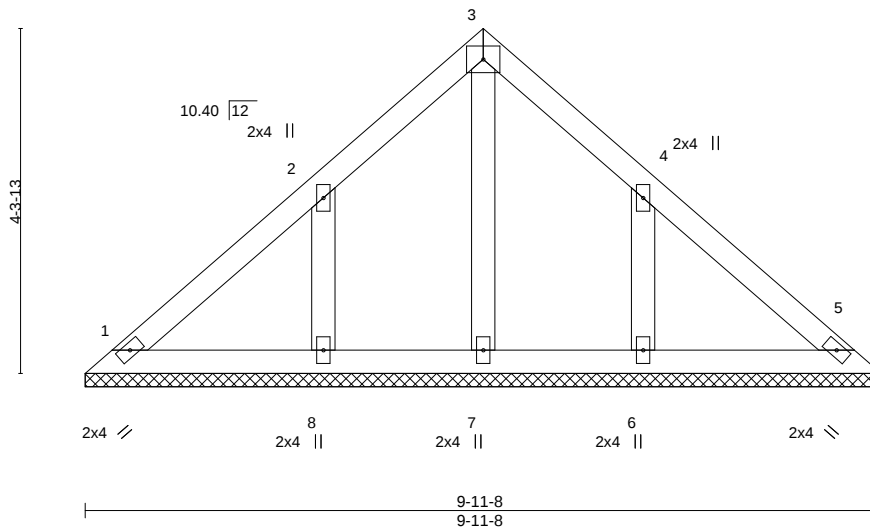
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss LAY8	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMdbN0tjF5cDvSpwH1zCzbQ-jKFU_ICovd5L9P2i887mmtaXe6CsK5y?zCLLGozGs5f		Lot 15 HT I41303237
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:56 2020 Page 1 4-11-12 06/11/2020 9-11-8 4-11-12 4x5 =			

Scale = 1:28.8



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 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 34 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.

REACTIONS.

All bearings 9-11-8.
 (lb) - Max Horz 1=-104(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-134(LC 8), 6=-134(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=274(LC 15), 6=274(LC 16)

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 100 lb uplift at joint(s) 1 except (jt=lb) 8=134, 6=134.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

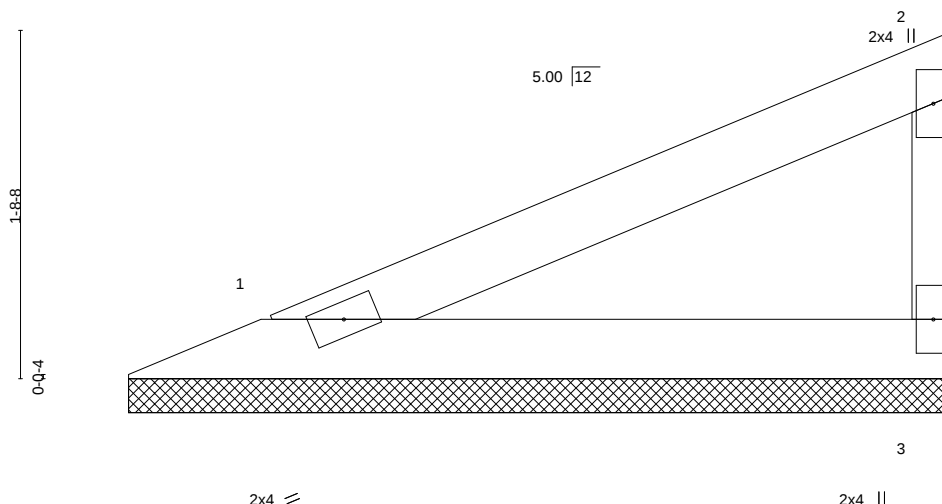
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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:bWuMdBNOtjF5cDvSpwhpH1zCzbQ-BWotC5DQgwDCmZdxire?J47hdWWA3Ye8Bs4voEzGs5e 06/11/2020			Lot 15 HT	I41303238
400302	V1	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871	240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:57 2020 Page 1 4-1-4 4-1-4				

Scale = 1:11.3



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 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	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: 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 4-1-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-10, 3=4-0-10
 Max Horz 1=60(LC 5)
 Max Uplift 1=-21(LC 8), 3=-33(LC 8)
 Max Grav 1=146(LC 1), 3=146(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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

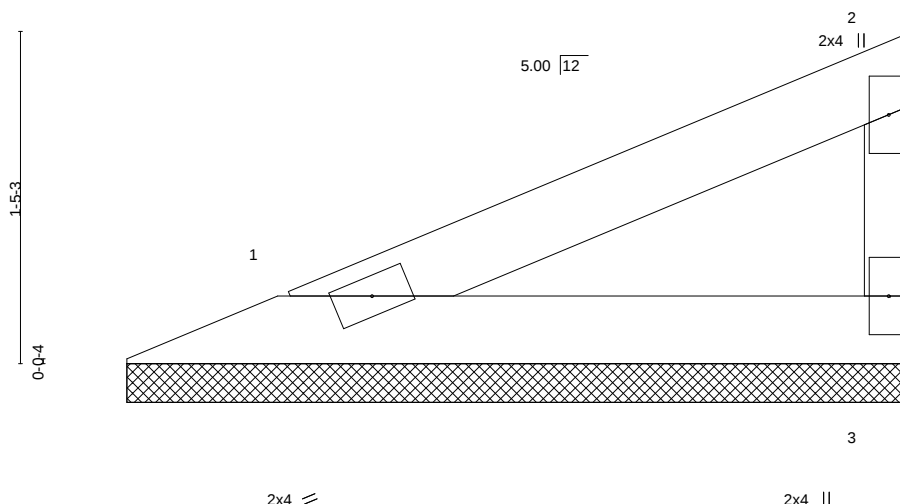
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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:bWuMdbN0tjF5cDvSpwhpH1zCzbQ-fjMFPQE2QEM3OjC7GZ9ErIgtXvt0o?uHQWqSLhzGs5d 06/11/2020			Lot 15 HT	I41303239
400302	V2	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:58 2020 Page 1 3-5-4 3-5-4			

Scale = 1:9.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 lb	FT = 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 3-5-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-4-10, 3=3-4-10
 Max Horz 1=47(LC 5)
 Max Uplift 1=-17(LC 8), 3=-26(LC 8)
 Max Grav 1=116(LC 1), 3=116(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.



May 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job: 400302

Truss: V3

Truss Type: Valley

Wheeler Lumber, Waverly, KS 66871

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

06/11/2020

Lot 15 HT

Job Reference (optional)

9 2020 MiTek Industries, Inc. Wed May 13 16:45:59 2020 Page 1

ID: bWuMdbN0tjF5cDvSpwhp

-0-10-8

0-10-8

3-6-12

3-6-12

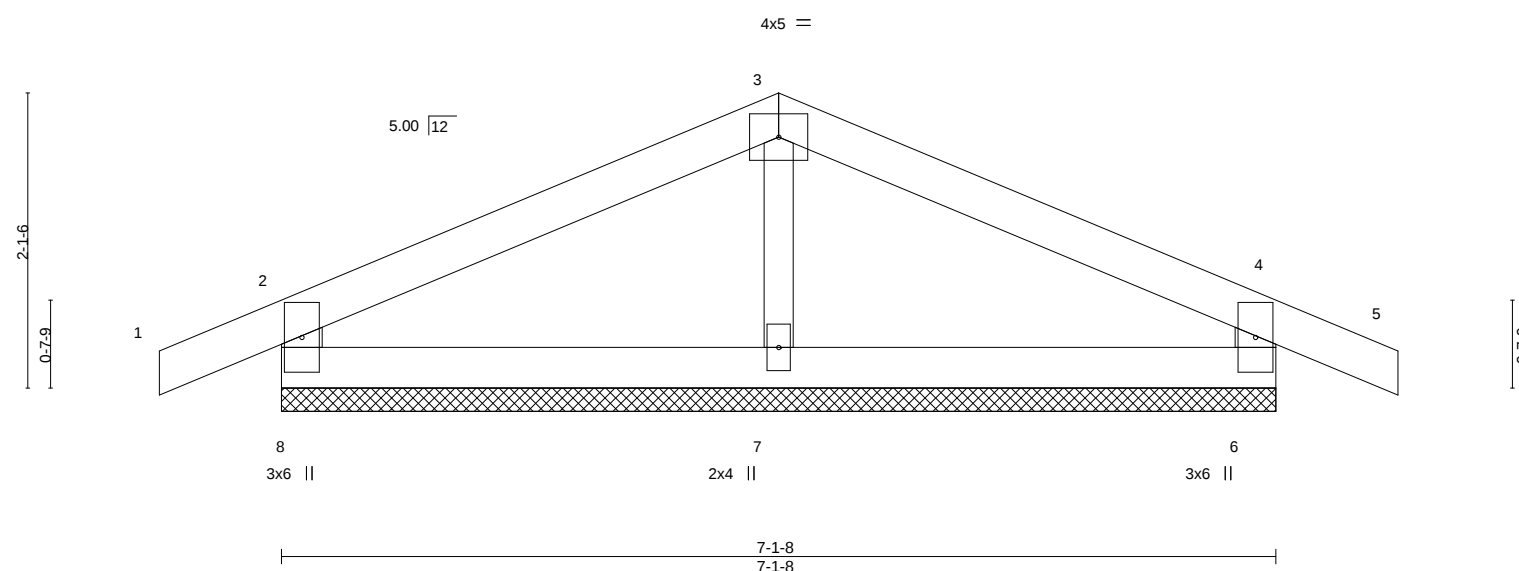
7-1-8

3-6-12

8-0-0

0-10-8

Scale = 1:16.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							
								Weight: 21 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	2x4 SPF No.2		
OTHERS	2x3 SPF No.2		

REACTIONS. (size) 8=7-1-8, 6=7-1-8, 7=7-1-8
Max Horz 8=-19(LC 13)
Max Uplift 8=-74(LC 8), 6=-76(LC 9)
Max Grav 8=265(LC 1), 6=265(LC 1), 7=227(LC 1)

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

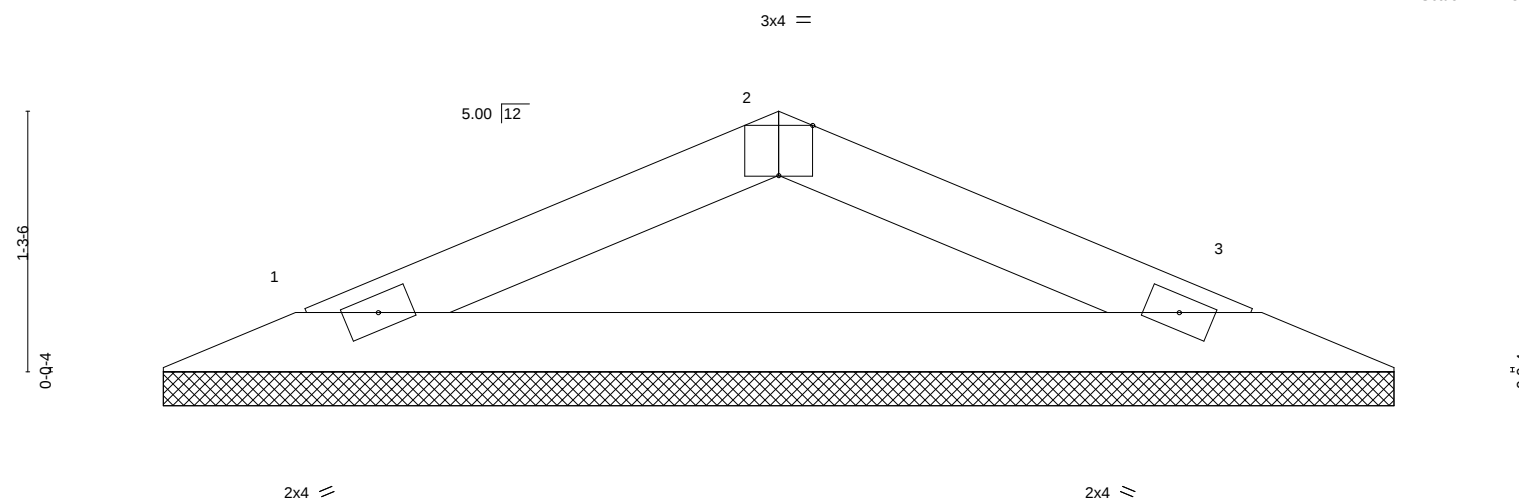
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 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.



May 14,2020

Job 400302	Truss V4	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:bWuMDBN0tjF5cDvSpwhp1 06/11/2020		Lot 15 HT I41303241 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:45:59 2020 Page 1 ID:bWuMDBN0tjF5cDvSpwhp1ZCzbQ-7vddmFgBYUw0tnKpGgTOVC2dJAaXS8RfAZ?t7zGs5c
Wheeler Lumber, Waverly, KS 66871				6-1-13 3-0-14	

Scale = 1:11.3



0-0-10 0-0-10		6-1-13 6-1-3	
Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09
TCDL 10.0	Lumber DOL	1.15	BC 0.23
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P
			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 3 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 13 lb FT = 10%

LUMBER-

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

BRACING-

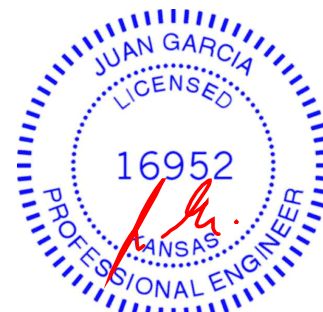
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-0-10, 3=6-0-10
Max Horz 1=17(LC 8)
Max Uplift 1=27(LC 8), 3=27(LC 9)
Max Grav 1=209(LC 1), 3=209(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 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 2020

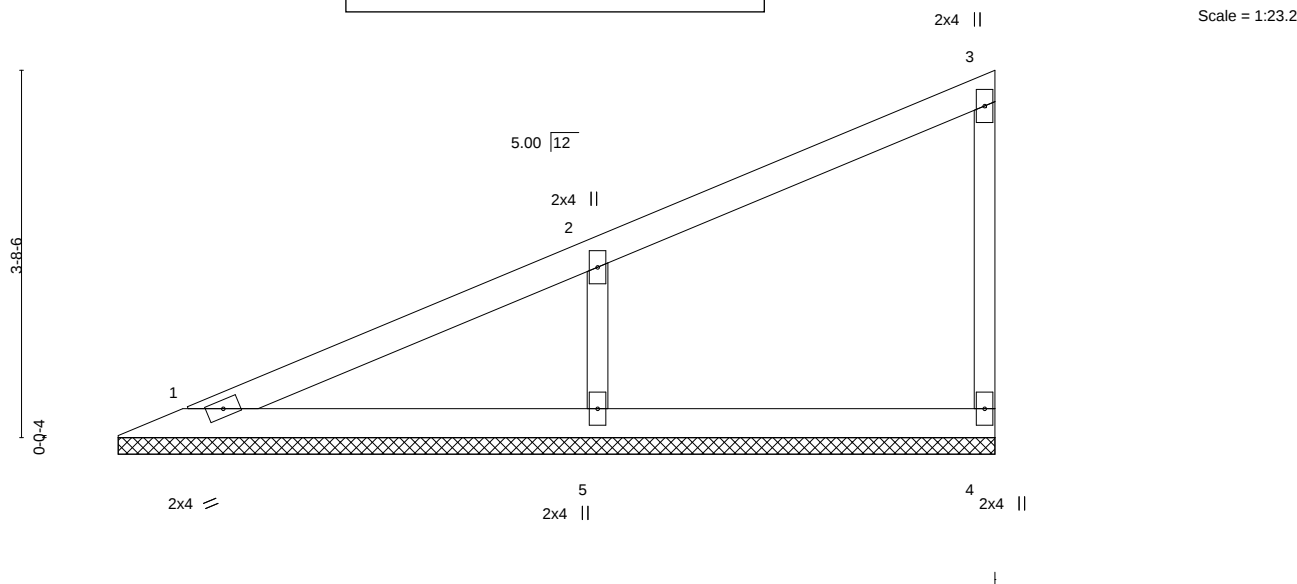
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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: bWuMDBN0tjF5cDvSpwH1zCzbQ-c5U?q6F1yrcnd1MWN_BiwlAnjXMGuMauqJZPZzGs5b 06/13/2020			Lot 15 HT	I41303242
400302	V5	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:00 2020 Page 1 8-10-8 8-10-8			



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 0.26	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 24 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=8-9-14, 4=8-9-14, 5=8-9-14
 Max Horz 1=146(LC 5)
 Max Uplift 4=-23(LC 5), 5=-120(LC 8)
 Max Grav 1=142(LC 1), 4=129(LC 1), 5=451(LC 1)

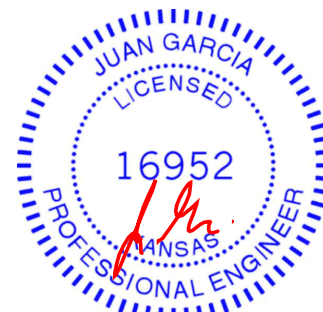
FORCES.

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

WEBS 2-5=-351/180

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) 4 except (jt=lb) 5=120.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 14, 2020

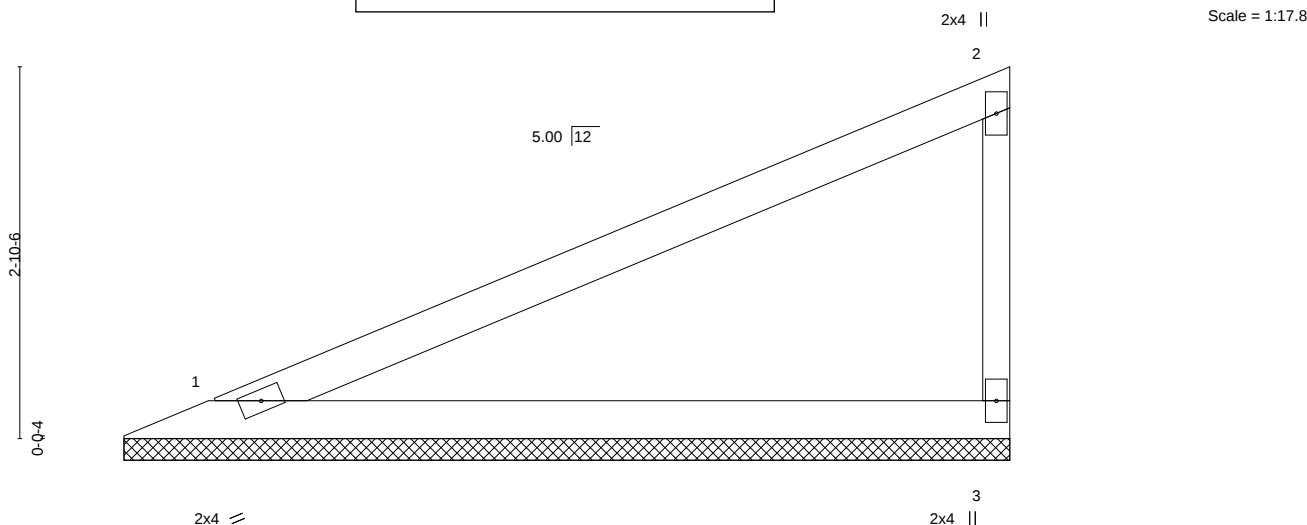
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI			Lot 15 HT	I41303243
400302	V6	Valley	ID: bWuMdBNOtjF5cDvSpwPH1zCzbQ-4i2N2SGwj9keFBxixhixTwHEK7pc?Mdk6U26y0zGs5a			Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:01 2020 Page 1					
		6-10-8 6-10-8					



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 0.72	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.39	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 6-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-9-14, 3=6-9-14
 Max Horz 1=110(LC 5)
 Max Uplift 1=-40(LC 8), 3=-62(LC 8)
 Max Grav 1=271(LC 1), 3=271(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.



May 14, 2020

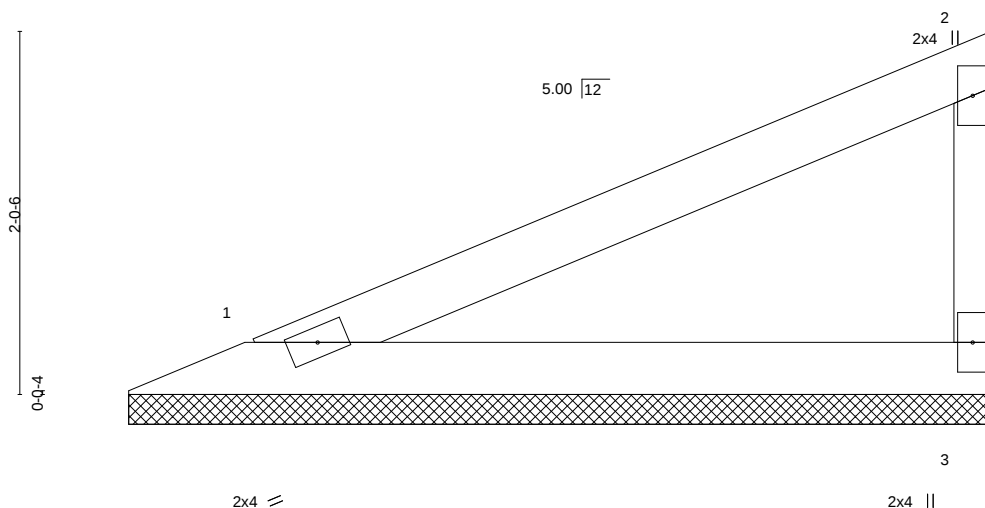
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss V7	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMdBNOtjF5cDvSpwphH1zCzbQ-4I2N2SGWj9keFBxixhixTwHLt7t9?Mdk6U26y0zGs5a 06/13/2020 4-10-8 4-10-8		Lot 15 HT I41303244 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:01 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 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	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-

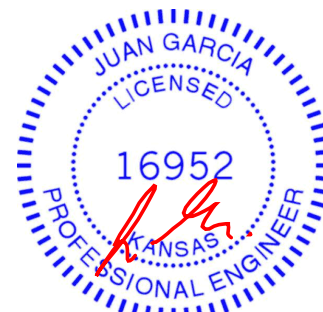
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-14, 3=4-9-14
 Max Horz 1=74(LC 5)
 Max Uplift 1=-26(LC 8), 3=-41(LC 8)
 Max Grav 1=181(LC 1), 3=181(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.



May 14, 2020

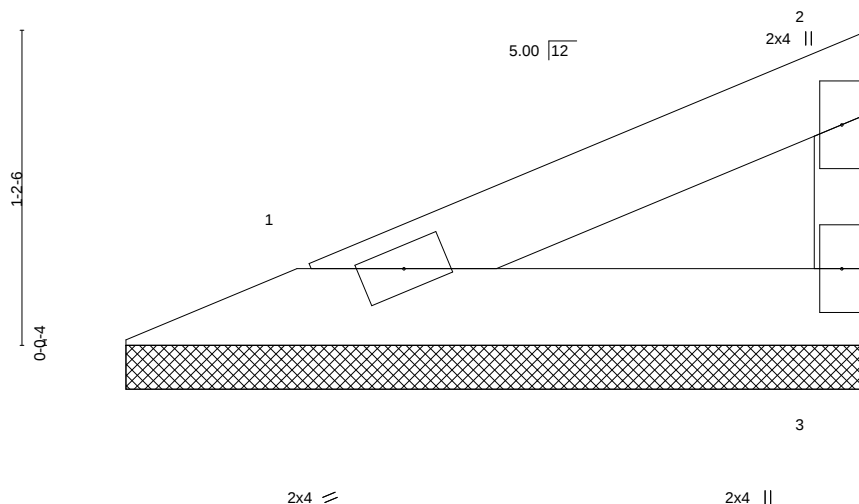
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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:bWuMdbN0tjF5cDvSpwhp 06/11/2020			Lot 15 HT	I41303245
400302	V8	Valley				Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:02 2020 Page 1 H1zCzbQ-YUclFoHYUSsVtKWvVPEA08qZFxFMkpttL8ofUSzGs5Z			



Scale = 1:8.8

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	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	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: 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 2-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

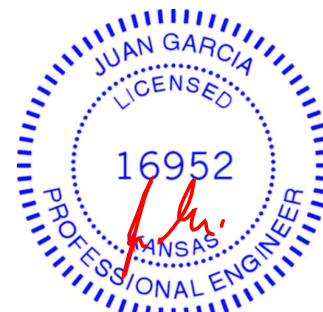
REACTIONS.

(size) 1=2-9-14, 3=2-9-14
 Max Horz 1=37(LC 5)
 Max Uplift 1=-13(LC 8), 3=-21(LC 8)
 Max Grav 1=91(LC 1), 3=91(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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

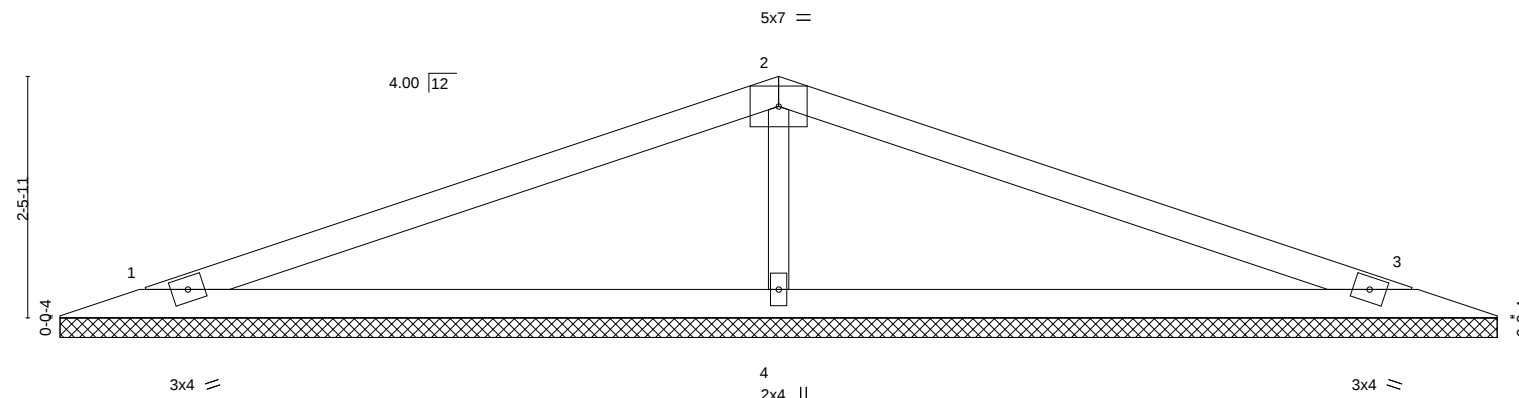
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 400302	Truss V9	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDbN0tjF5cDvSpwph 06/11/2020		Lot 15 HT I41303246 Job Reference (optional) 240 s Mar 9 2020 MiTek Industries, Inc. Wed May 13 16:46:03 2020 Page 1 H1zCzbQ-0gA8S8IBFm_LUU5526IPYLNbWwVITFf1aoXD0uzGs5Y
Wheeler Lumber, Waverly, KS 66871		7-5-0 7-5-0 14-10-0 7-5-0			

Scale = 1:23.6



0-0-12				14-10-0							
0-0-12				14-9-4							
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	0.61	Vert(LL)	n/a - n/a 999	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a - n/a 999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00 3 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S				Weight: 34 lb	FT = 10%		

LUMBER-

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

BRACING-

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

REACTIONS.

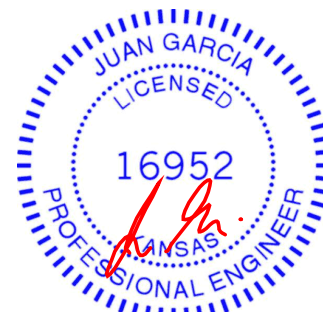
(size) 1=14-8-8, 3=14-8-8, 4=14-8-8
 Max Horz 1=38(LC 8)
 Max Uplift 1=-55(LC 4), 3=-60(LC 9), 4=-60(LC 4)
 Max Grav 1=261(LC 21), 3=261(LC 22), 4=660(LC 1)

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

WEBS 2-4=-465/138

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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, 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.



May 14, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

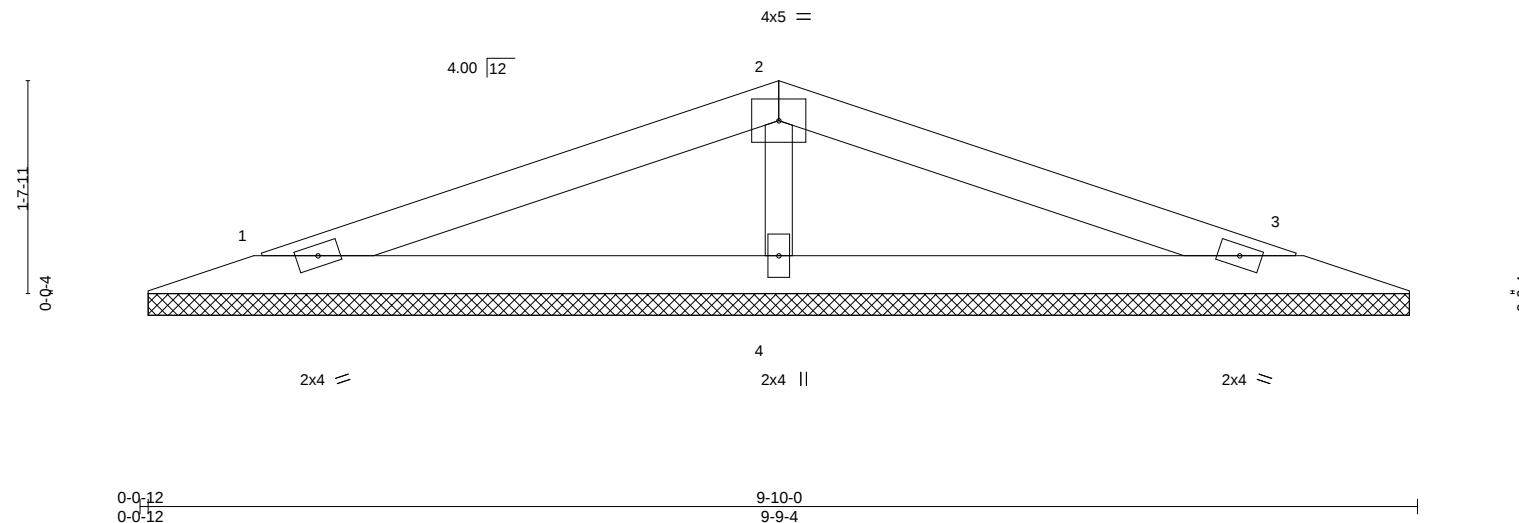
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 Chesterfield, MO 63017

Job 400302	Truss V10	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID: bWuMDbN0tjF5cdvSpwph 06/11/2020		Lot 15 HT I41303247 Job Reference (optional) 9 2020 MiTek Industries, Inc. Wed May 13 16:45:57 2020 Page 1 H1zCzbQ-BWotC5DQgwDCmZdxire?J47gFWVj3Yr8Bs4voEzGs5e
Wheeler Lumber, Waverly, KS 66871			4-11-0 4-11-0 9-10-0 4-11-0		

Scale = 1:17.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 21 lb		FT = 10%	

LUMBER-

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

BRACING-

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

REACTIONS.

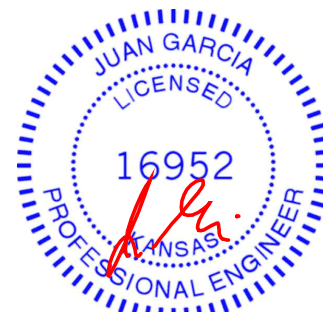
(size) 1=9-8-8, 3=9-8-8, 4=9-8-8
 Max Horz 1=24(LC 8)
 Max Uplift 1=34(LC 4), 3=37(LC 9), 4=37(LC 4)
 Max Grav 1=160(LC 21), 3=160(LC 22), 4=405(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-285/84

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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, 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.



May 14, 2020

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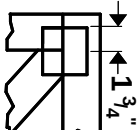
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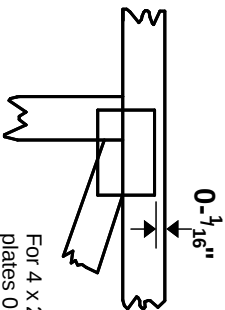
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

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- $\frac{1}{16}$ " from outside edge of truss.



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

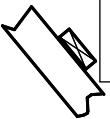
Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE



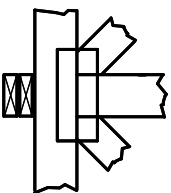
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



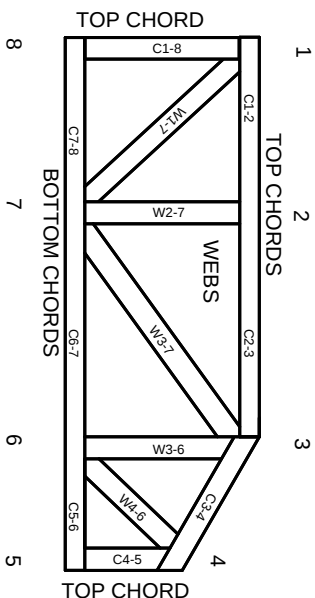
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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