



01/05/2021

RE: W0 88
Lot 88 W0

MiTek USA, Inc.

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

Site Information:

Customer: Project Name: W0 88
Lot/Block:
Address:
City:

Model:
Subdivision:
State:

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

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

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

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I43840374	A1	12/3/2020	21	I43840394	E3	12/3/2020
2	I43840375	A2	12/3/2020	22	I43840395	E4	12/3/2020
3	I43840376	B1	12/3/2020	23	I43840396	E5	12/3/2020
4	I43840377	B2	12/3/2020	24	I43840397	E6	12/3/2020
5	I43840378	B3	12/3/2020	25	I43840398	E7	12/3/2020
6	I43840379	B4	12/3/2020	26	I43840399	E8	12/3/2020
7	I43840380	B5	12/3/2020	27	I43840400	E9	12/3/2020
8	I43840381	B6	12/3/2020	28	I43840401	G1	12/3/2020
9	I43840382	B7	12/3/2020	29	I43840402	G2	12/3/2020
10	I43840383	B8	12/3/2020	30	I43840403	G3	12/3/2020
11	I43840384	B9	12/3/2020	31	I43840404	G4	12/3/2020
12	I43840385	C1	12/3/2020	32	I43840405	G5	12/3/2020
13	I43840386	C2	12/3/2020	33	I43840406	J1	12/3/2020
14	I43840387	D1	12/3/2020	34	I43840407	J2	12/3/2020
15	I43840388	D2	12/3/2020	35	I43840408	J3	12/3/2020
16	I43840389	D3	12/3/2020	36	I43840409	J4A	12/3/2020
17	I43840390	D4	12/3/2020	37	I43840410	J5A	12/3/2020
18	I43840391	D5	12/3/2020	38	I43840411	J8	12/3/2020
19	I43840392	E1	12/3/2020	39	I43840412	J9	12/3/2020
20	I43840393	E2	12/3/2020	40	I43840413	J10	12/3/2020

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.



December 03, 2020



01/05/2021

RE: W0 88 - Lot 88 W0

MiTek USA, Inc.

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

Site Information:

Project Customer: Project Name: W0 88

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	I43840414	J11	12/3/2020
42	I43840415	J12	12/3/2020
43	I43840416	J13	12/3/2020
44	I43840417	J14	12/3/2020
45	I43840418	J14A	12/3/2020
46	I43840419	J15	12/3/2020
47	I43840420	J16	12/3/2020
48	I43840421	J17	12/3/2020
49	I43840422	J18	12/3/2020
50	I43840423	J19	12/3/2020
51	I43840424	J20	12/3/2020
52	I43840425	J21	12/3/2020
53	I43840426	J22	12/3/2020
54	I43840427	J23	12/3/2020
55	I43840428	J24	12/3/2020
56	I43840429	J25	12/3/2020
57	I43840430	J26	12/3/2020
58	I43840431	J27	12/3/2020
59	I43840432	LAY2	12/3/2020
60	I43840433	LAY3	12/3/2020
61	I43840434	LAY4	12/3/2020
62	I43840435	V1	12/3/2020
63	I43840436	V2	12/3/2020
64	I43840437	V3	12/3/2020



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

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

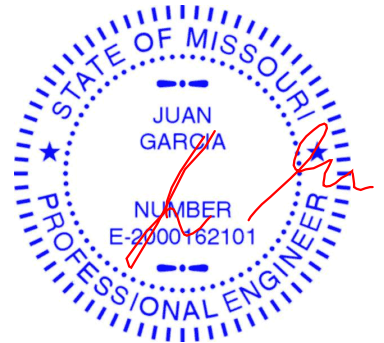
Design Program: MiTek 20/20 8.4
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

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16	I43840389	D3	12/3/2020	36	I43840409	J4A	12/3/2020
17	I43840390	D4	12/3/2020	37	I43840410	J5A	12/3/2020
18	I43840391	D5	12/3/2020	38	I43840411	J8	12/3/2020
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20	I43840393	E2	12/3/2020	40	I43840413	J10	12/3/2020

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 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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No.	Seal#	Truss Name	Date
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43	I43840416	J13	12/3/2020
44	I43840417	J14	12/3/2020
45	I43840418	J14A	12/3/2020
46	I43840419	J15	12/3/2020
47	I43840420	J16	12/3/2020
48	I43840421	J17	12/3/2020
49	I43840422	J18	12/3/2020
50	I43840423	J19	12/3/2020
51	I43840424	J20	12/3/2020
52	I43840425	J21	12/3/2020
53	I43840426	J22	12/3/2020
54	I43840427	J23	12/3/2020
55	I43840428	J24	12/3/2020
56	I43840429	J25	12/3/2020
57	I43840430	J26	12/3/2020
58	I43840431	J27	12/3/2020
59	I43840432	LAY2	12/3/2020
60	I43840433	LAY3	12/3/2020
61	I43840434	LAY4	12/3/2020
62	I43840435	V1	12/3/2020
63	I43840436	V2	12/3/2020
64	I43840437	V3	12/3/2020

Job: W0 88

Truss: A1

Truss Type: Hip Girder

Qty: 1

Ply: 1

Lot 88 W0

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

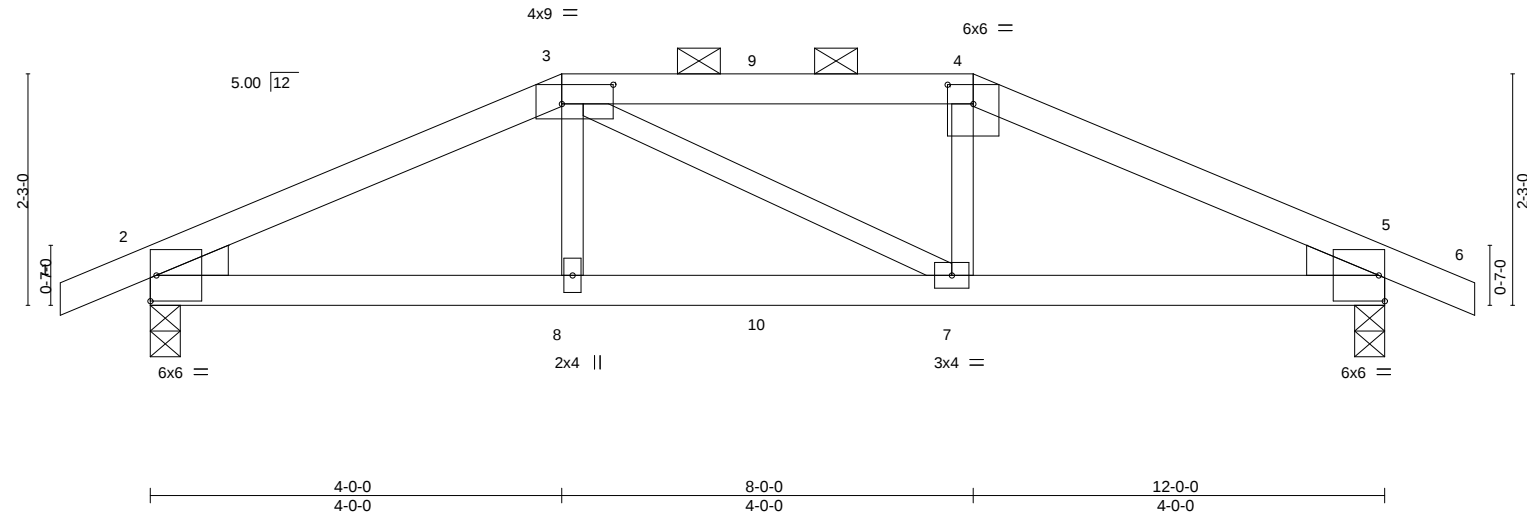
WEB SUMMIT MISSOURI

01/05/2021

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc.

ID: 2ncXplsXOfjIB6I7Q?gPMzrYWU-mpPCK1EYzXVE?8rlm9Jme8ZikOsMgTY1m53lyCxj6

Scale = 1:22.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.04	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.07				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.03				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03	Weight: 38 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

WEDGE

Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins, except 2-0-0 oc purlins (4-7-5 max.): 3-4.

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

REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=36(LC 29)

Max Uplift 2=-205(LC 8), 5=-205(LC 9)

Max Grav 2=899(LC 1), 5=899(LC 1)

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

TOP CHORD 2-3=-1527/360, 3-4=-1326/339, 4-5=-1528/359

BOT CHORD 2-8=-288/1309, 7-8=-288/1325, 5-7=-284/1310

WEBS 3-8=-2/316, 4-7=-11/327

- 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=205, 5=205.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 80 lb up at 4-0-0, and 85 lb down and 80 lb up at 6-0-0, and 80 lb down and 80 lb up at 8-0-0 on top chord, and 212 lb down and 72 lb up at 4-0-0, and 36 lb down at 6-0-0, and 212 lb down and 72 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	A1	Hip Girder	1	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjIB6i7Q?gPMzrYWU-mpPCK1EyZxXVE?8rlm9Jme8ZikOsMgTY1m53lyCxj6

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEBB COUNTY, MISSOURI
01/05/2021

143840374

LOAD CASE(S) Standard

Uniform Loads (plf)

 Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Concentrated Loads (lb)

 Vert: 3=-53(F) 4=-53(F) 8=-212(F) 7=-212(F) 9=-53(F) 10=-18(F)



Job

W0 88

Truss

A2

Truss Type

Common

Qty

3

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsXOfbjIB6i7Q?gPMzrYWU-mpPCK1EyZxXVE?8rm9IJme8YinpsM1TY1m53lyCxj6

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEBB COUNTY, MISSOURI

01/05/2021

0-10-8

0-10-8

6-0-0

6-0-0

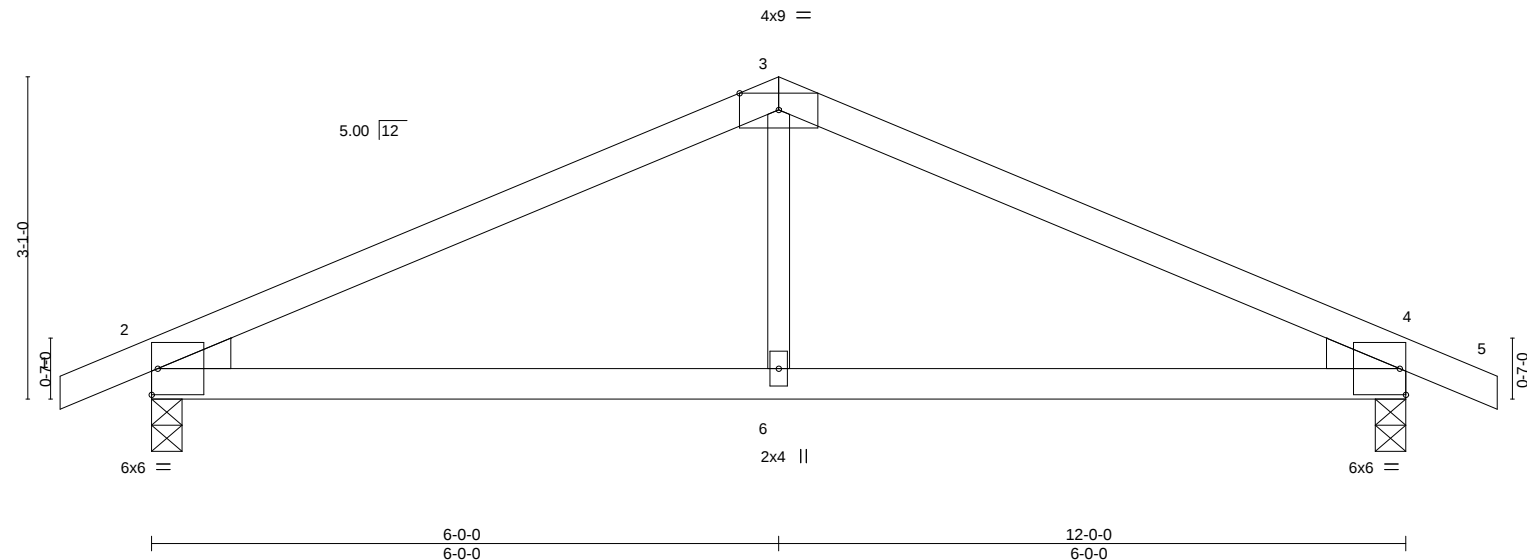
12-0-0

6-0-0

12-10-8

0-10-8

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.03	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03	Weight: 35 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

WEDGE

Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-2 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=50(LC 12)

Max Uplift 2=-91(LC 8), 4=-91(LC 9)

Max Grav 2=598(LC 1), 4=598(LC 1)

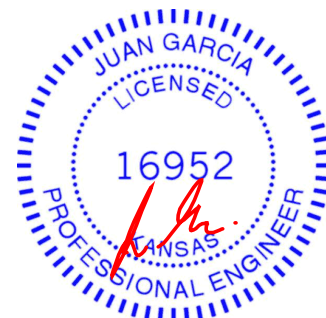
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-782/88, 3-4=-782/87

BOT CHORD 2-6=-33/629, 4-6=-33/629

WEBS 3-6=0/283

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 2, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	B1	GABLE	1	1	

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Job Reference (optional)

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

143840376

09/05/2021

Scale = 1:46.2

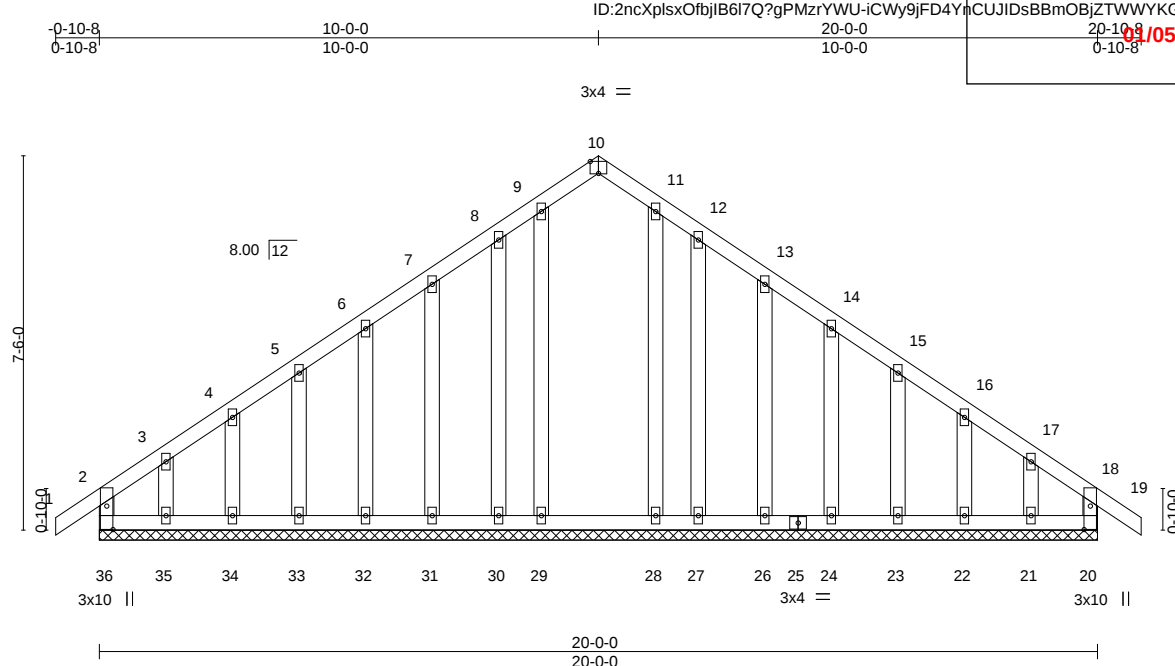


Plate Offsets (X,Y)--		[10:0-2-0,Edge], [20:0-5-10,0-1-8], [36:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08
TCDL 10.0	Lumber DOL	1.15	BC 0.08
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 19 n/r 120
			Vert(CT) -0.00 19 n/r 120
			Horz(CT) 0.00 20 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 115 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 2x4 SPF No.2	

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 36=213(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 36, 20, 34, 33, 32, 31, 30, 27, 26, 24, 23, 22 except 35=-155(LC 8), 21=-145(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 36, 20, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 20, 34, 33, 32, 31, 30, 27, 26, 24, 23, 22 except (jt=lb) 35=155, 21=145.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 12/05/2021
WO 88	B2	Common	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. 143840377

0-10-8 5-2-0 10-0-0 14-9-15 20-0-0 20-0-0 0-10-8

0-10-8 5-2-0 4-9-15 4-10-0 5-2-1 0-10-8

4x5 =

Scale = 1.45:3

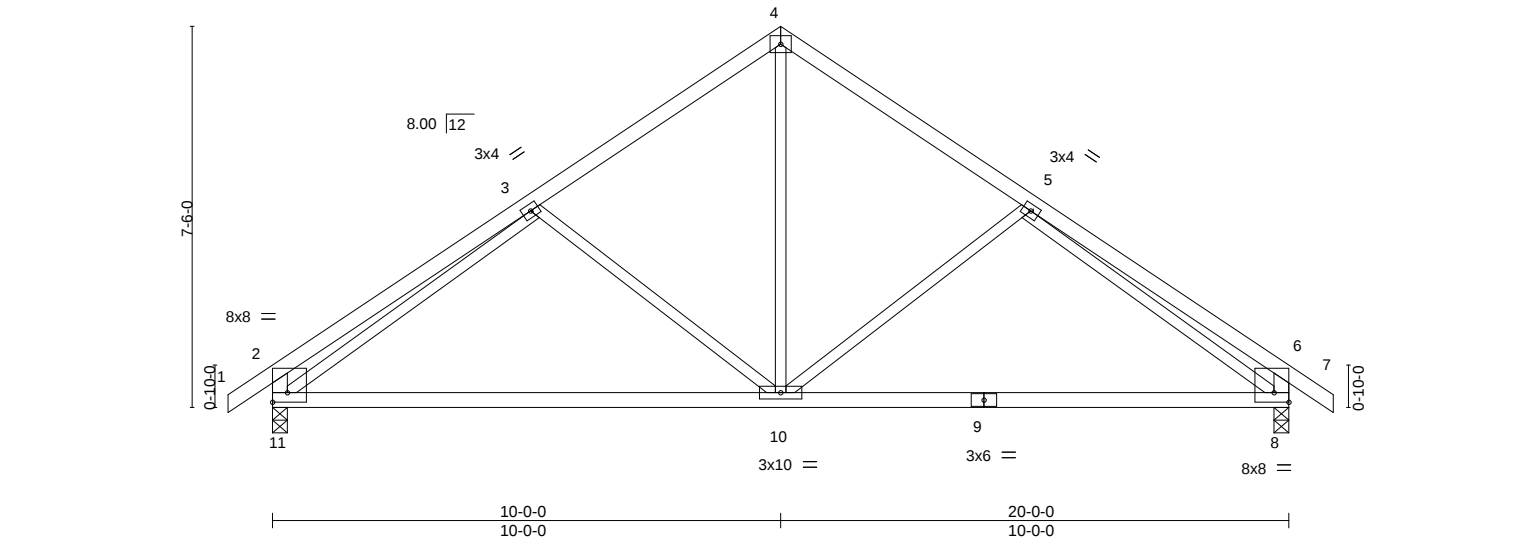


Plate Offsets (X,Y)--		[2:Edge,0-2-4], [8:Edge,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28
TCDL 10.0	Lumber DOL	1.15	BC 0.81
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
DEFL.	in	(loc)	l/defl
Vert(LL)	-0.18	8-10	>999
Vert(CT)	-0.37	8-10	>633
Horz(CT)	0.03	8	n/a
Wind(LL)	0.02	10	>999
PLATES	GRIP		
MT20	197/144		
Weight: 79 lb		FT = 10%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-3 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* 2-11,6-8: 2x4 SPF No.2	

REACTIONS.	(size) 11=0-3-8, 8=0-3-8
	Max Horz 11=213(LC 7)
	Max Uplift 11=-123(LC 8), 8=-123(LC 9)
	Max Grav 11=958(LC 1), 8=958(LC 1)

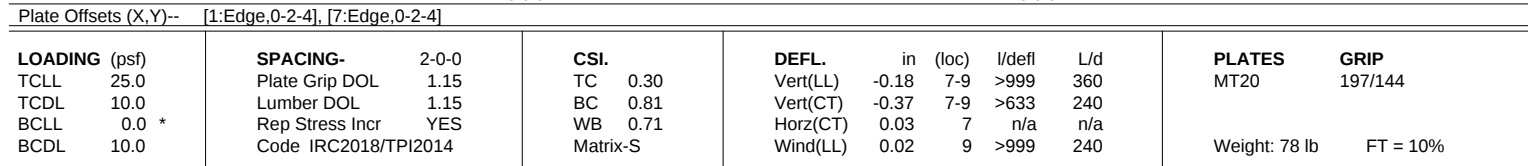
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-485/125, 3-4=-875/159, 4-5=-875/158, 5-6=-485/124, 2-11=-460/148, 6-8=-460/148
BOT CHORD	10-11=-153/869, 8-10=-48/843
WEBS	4-10=-55/534, 5-10=-292/220, 3-10=-292/220, 3-11=-662/94, 5-8=-662/94

- 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) 11=123, 8=123.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3,2020

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
123840373



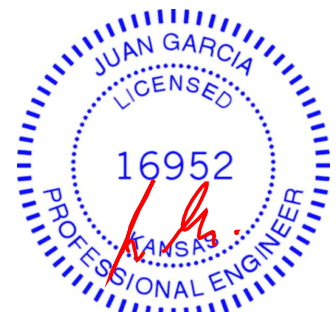
BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

TOP CHORD	1-2=-431/79, 2-3=-879/159, 3-4=-877/159, 4-5=-485/124, 1-10=-348/94, 5-7=-460/148
BOT CHORD	9-10=-156/879, 7-9=-48/846
WEBS	3-9=-57/541, 4-9=-292/220, 2-9=-302/224, 2-10=-724/125, 4-7=-665/94

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=123.
- 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.



December 3, 2020

Job

W0 88

Truss

B4

Truss Type

ROOF SPECIAL GIRDER

Qty

1

Ply

2

Lot 88 W0

Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

0-10-8 2-3-0 7-3-0 12-3-0 20-0-0 25-10-11 30-0-0

0-10-8 2-3-0 5-0-0 5-0-0 7-9-0 5-10-11 4-1-5

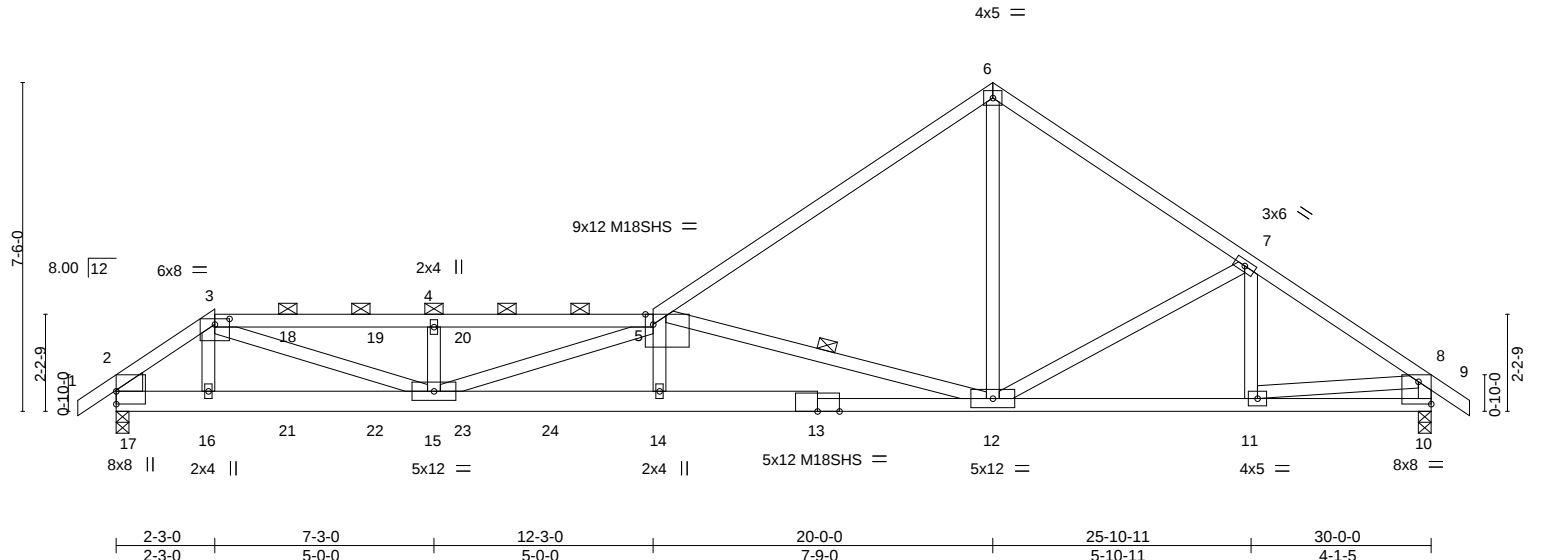
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

143840379

WEB SUBMIT MISSOURI

01/09/2021

Scale = 1:52.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.39 14-15 >907 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.69 14-15 >511 240	M18SHS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.08 10 n/a n/a	Weight: 273 lb FT = 10%			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.30 14-15 >999 240				

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF 1650F 1.4E *Except* 10-13: 2x4 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except* 2-17: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-2 max.): 3-5.

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

WEBS 1 Row at midpt 5-12

REACTIONS. (size) 17=0-3-8, 10=0-3-8
Max Horz 17=213(LC 7)
Max Uplift 17=-516(LC 8), 10=-234(LC 9)
Max Grav 17=2628(LC 1), 10=1826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2927/546, 3-4=-7731/1381, 4-5=-7731/1381, 5-6=-2347/346, 6-7=-2302/404, 7-8=-2425/318, 2-17=-1824/353, 8-10=-1779/251
BOT CHORD 16-17=-511/2360, 15-16=-525/2405, 14-15=-1490/8859, 12-14=-1490/8908, 11-12=-200/1957
WEBS 3-16=-592/174, 3-15=-954/5688, 4-15=-722/331, 5-15=-1209/233, 5-14=-12/647, 5-12=-7305/1335, 6-12=-237/1943, 7-12=-293/222, 8-11=-176/1782

- 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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 17=516, 10=234.
 - This truss 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 143840379 01/05/2021
W0 88	B4	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,						

8.430 s Nov 30 2020 MiTek Industries, Inc. Web's Summit Missouri
ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-6nC5nII5NTAnLn0oYJkT0pLtgiKAXR4CiJUskzyCxj1

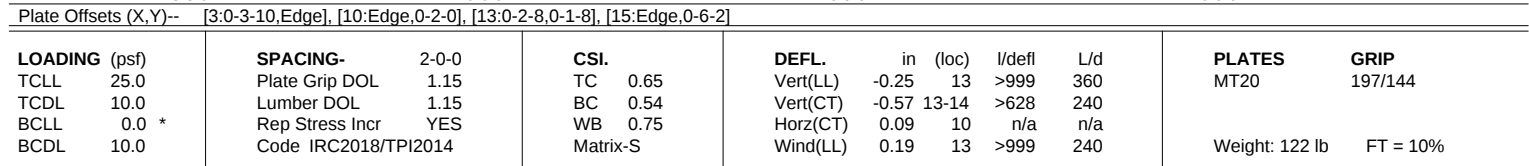
NOTES-
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 98 lb up at 3-11-4, and 158 lb down and 98 lb up at 5-11-4, and 158 lb down and 98 lb up at 7-11-4 on top chord, and 199 lb down and 86 lb up at 2-3-0, 66 lb down at 3-11-4, 66 lb down at 5-11-4, and 66 lb down at 7-11-4, and 1017 lb down and 175 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 10-17=-20
Concentrated Loads (lb)
Vert: 16=-199(F) 18=-108(F) 19=-108(F) 20=-108(F) 21=-33(F) 22=-33(F) 23=-33(F) 24=-1017(F)

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

10-9-8
7-2-1



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-5-14 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-14, 5-11, 7-10

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

TOP CHORD 2-3=-1817/241, 3-4=-1442/232, 4-5=-3826/524, 5-6=-1609/209, 6-7=-1612/267,
7-8=-624/121, 2-15=-1421/212, 8-10=-546/147

BOT CHORD 13-14=-538/3028, 11-13=-538/3836, 10-11=-128/1402

WEBS 3-14=-22/724, 4-14=-1787/334, 4-13=-22/897, 5-13=-257/110, 5-11=-2762/498,
6-11=-114/1256, 2-14=-80/1380, 7-10=-1235/190

STATE OF MISSOURI

JUAN GARCIA

NUMBER E-2000162101

PROFESSIONAL ENGINEER

A circular blue seal for a Professional Engineer. The outer ring contains the text "JUAN GARCIA" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside this ring, the word "LICENSED" is at the top and "KANSAS" is at the bottom. In the center, the license number "16952" is displayed in a large blue font, with a red signature written over it.

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

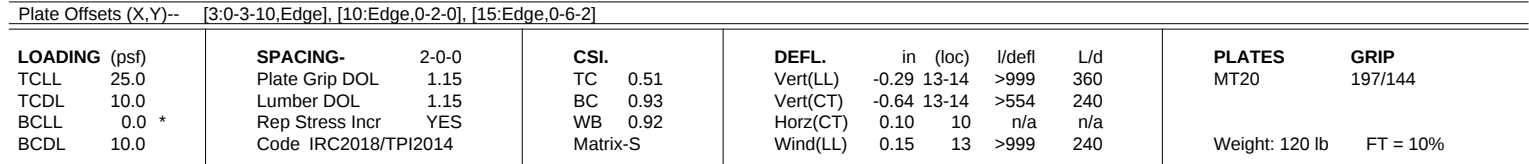
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

143840381

(onal) **RECEIVED SUBMITTAL OFFICE**
tries, Inc. Lv4QVa4ABfkknx5ERKTxOS?KqV9dzdzyCxi?
Lv4QVa4ABfkknx5ERKTxOS?KqV9dzdzyCxi?

30-10-8
30-10-8
30-10-8

30-10-8
30-10-8
30-10-8



REACTIONS. (size) 15=0-3-8, 10=0-3-8
 Max Horz 15=-213(LC 6)
 Max Uplift 15=-230(LC 8), 10=-142(LC 9)
 Max Grav 15=1408(LC 1), 10=1408(LC 1)

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

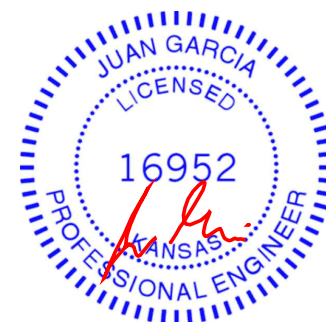
TOP CHORD 2-3=-1858/260, 3-4=-1460/256, 4-5=-3080/432, 5-6=-1612/221, 6-7=-1610/267,
7-8=-620/116, 2-15=-1399/229, 8-10=-544/145

BOT CHORD 14-15=-218/325, 13-14=-448/2585, 11-13=-418/3085, 10-11=-129/1401

WEBS 3-14=-207/11, 4-14=-1344/250, 4-13=-18/590, 5-11=-2102/397, 6-11=-140/1291,
2-14=-37/1301, 7-10=-1238/198

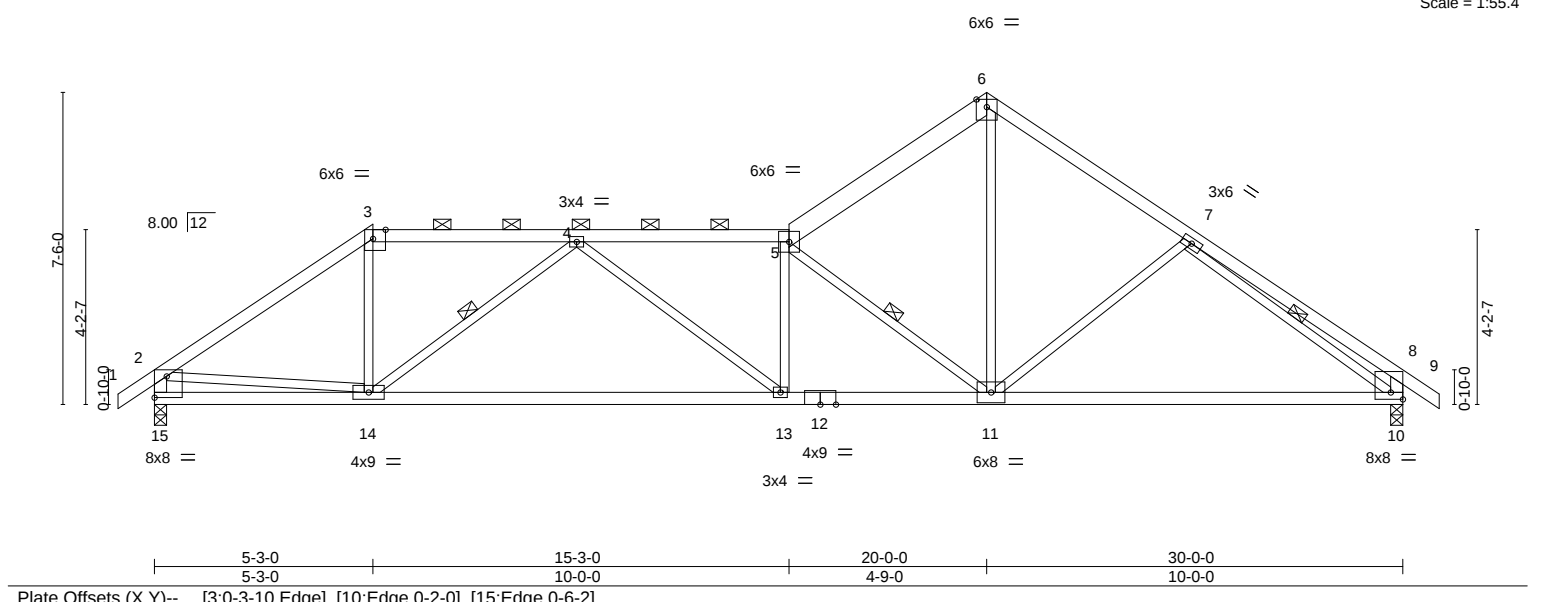
The seal of the State of Missouri is located in the bottom right corner. It is a circular emblem with a blue border. Inside the border, the words "STATE OF MISSOURI" are written in a circular path. In the center of the seal, there is a smaller circle containing the name "JUAN GARCIA" in blue capital letters. Above the name, there is a small blue graphic element resembling a stylized "M" or a bridge.

- 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) 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) except (jt=lb) 15=230, 10=142.
- 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.



December 3, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT, MISSOURI 01/05/2021 Scale = 1:55.4
W0 88	B7	Roof Special	1	1		
Job Reference (optional)						
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. 143840382						
ID:2ncXplsOfbjB6l7Q?gPMzrYWU-XMUeqmKzgOYMCEINDRIAqSzWUwNmKrhOHlWLyCxI						
-Q-10-8 0-10-8	5-3-0	10-1-12	15-3-0	20-0-0	24-10-0	30-0-0
	5-3-0	4-10-12	5-1-4	4-9-0	4-10-0	5-2-1



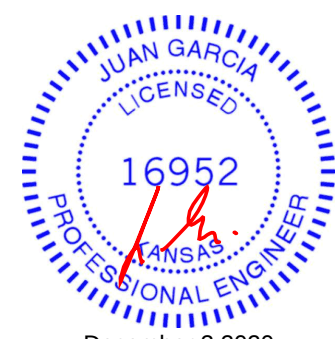
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.28 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.61 13-14	>585	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12 13	>999	240	Weight: 121 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-8 max.): 3-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-15,8-10: 2x4 SPF No.2	WEBS 1 Row at midpt 4-14, 5-11, 7-10

REACTIONS.	(size) 15=0-3-8, 10=0-3-8
	Max Horz 15=-213(LC 6)
	Max Uplift 15=-230(LC 8), 10=-142(LC 9)
	Max Grav 15=1408(LC 1), 10=1408(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1868/270, 3-4=-1452/274, 4-5=-2564/373, 5-6=-1590/232, 6-7=-1608/267, 7-8=-620/115, 2-15=-1381/241, 8-10=-543/144
BOT CHORD	14-15=-252/439, 13-14=-379/2269, 11-13=-330/2566, 10-11=-129/1402
WEBS	3-14=-10/675, 4-14=-1039/191, 4-13=-16/384, 5-11=-1699/335, 6-11=-164/1327, 2-14=-56/1169, 7-10=-1237/201

- 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) 15=230, 10=142.
 - This truss 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.



December 3,2020

Job

W0 88

Truss

B8

Truss Type

Roof Special

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SUMMIT, MISSOURI

01/05/2021

143840383

0-10-8

0-10-8

6-3-0

6-3-0

11-1-12

4-10-12

16-3-0

5-1-4

20-0-0

3-9-0

24-10-0

4-10-0

29-8-0

9-8-0

Scale = 1:52.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.26 11-13 >999	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.57 11-13 >619				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09 11-13 >999			Weight: 120 lb	FT = 10%

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

REACTIONS.	
(size)	14=0-3-8, 9=Mechanical
Max Horz	14=208(LC 5)
Max Uplift	14=-228(LC 8), 9=-121(LC 8)
Max Grav	14=1395(LC 1), 9=1321(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1839/273, 3-4=-1413/286, 4-5=-2131/326, 5-6=-1522/240, 6-7=-1561/263, 7-8=-370/53, 2-14=-1352/251, 8-9=-310/76
BOT CHORD	13-14=-325/566, 11-13=-331/1992, 10-11=-268/2131, 9-10=-133/1318
WEBS	3-13=0/612, 4-13=-788/168, 5-10=-1442/296, 6-10=-185/1313, 2-13=-96/990, 7-9=-1417/227

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=228, 9=121.
- This truss 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.

December 3,2020

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

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

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

W0 88

Truss

B9

Truss Type

Half Hip

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-?YRcd6LcRigDpOKZn9pAFWd1KrdTPZocxS4skyCxiz

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

143840384

WEB SUBMIT MISSOURI

01/05/2021

Wheeler Lumber,

Waverly, KS - 66871,

6x10 M18SHS =

Scale = 1:30.5

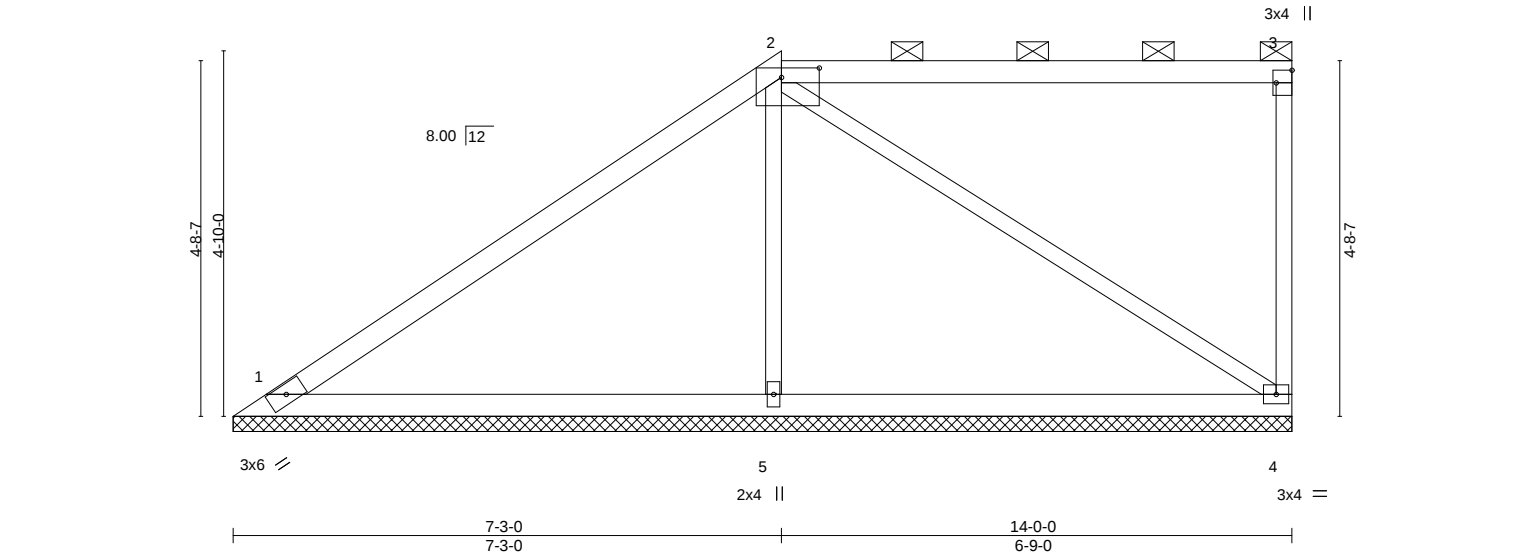


Plate Offsets (X,Y)--		[2:0-6-0,0-1-8], [3:Edge,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.70
TCDL 10.0	Lumber DOL	1.15	BC 0.37
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
DEFL.	in	(loc)	l/defl
Vert(LL)	n/a	-	n/a
Vert(CT)	n/a	-	n/a
Horz(CT)	-0.00	4	n/a
PLATES	GRIP		
MT20	197/144		
M18SHS	197/144		
Weight: 46 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.): 2-3.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS.	(size)	1=14-0-0, 4=14-0-0, 5=14-0-0
Max Horz	1=175(LC 5)	
Max Uplift	1=-52(LC 8), 4=-85(LC 5), 5=-54(LC 5)	
Max Grav	1=310(LC 1), 4=314(LC 1), 5=583(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-5=-402/148

- 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.
 - The Fabrication Tolerance at joint 2 = 6%
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 1/31/2021 01/05/2021
W0 88	C1	GABLE	1	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	
8.430 s Nov 30 2020 MiTek Industries, Inc. 12-2-8 0-10-8						

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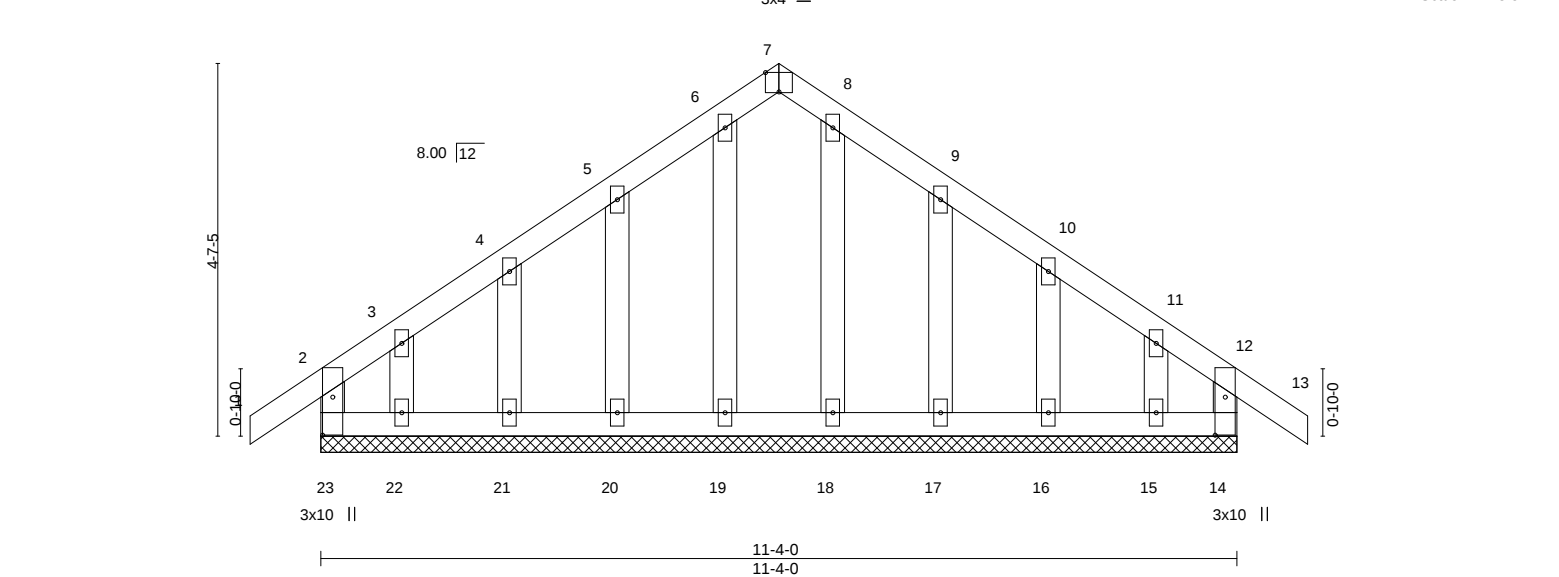


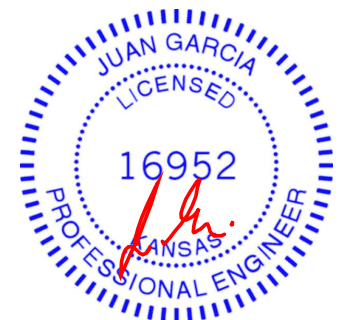
Plate Offsets (X,Y)--		[7:0-2-0,Edge], [14:0-5-10,0-1-8], [23:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.00 13	n/r	120
Vert(CT)	-0.00 13	n/r	120
Horz(CT)	0.00 14	n/a	n/a
PLATES		GRIP	
MT20		197/144	
Weight: 53 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 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 11-4-0.
 (lb) - Max Horz 23=-137(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 23, 14, 22, 21, 20, 17, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 23, 14, 22, 21, 20, 19, 18, 17, 16, 15

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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 22, 21, 20, 17, 16, 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.



December 3,2020

Job

W0 88

Truss

C2

Truss Type

Common Girder

Qty

1

Ply

2

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-xxZM2oMsZJwx3iUyuartF4b?v8VsxFi54FxBwcyCxix

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

143840386

WEB SUMMIT, MISSOURI

01/05/2021

Scale = 1:28.9

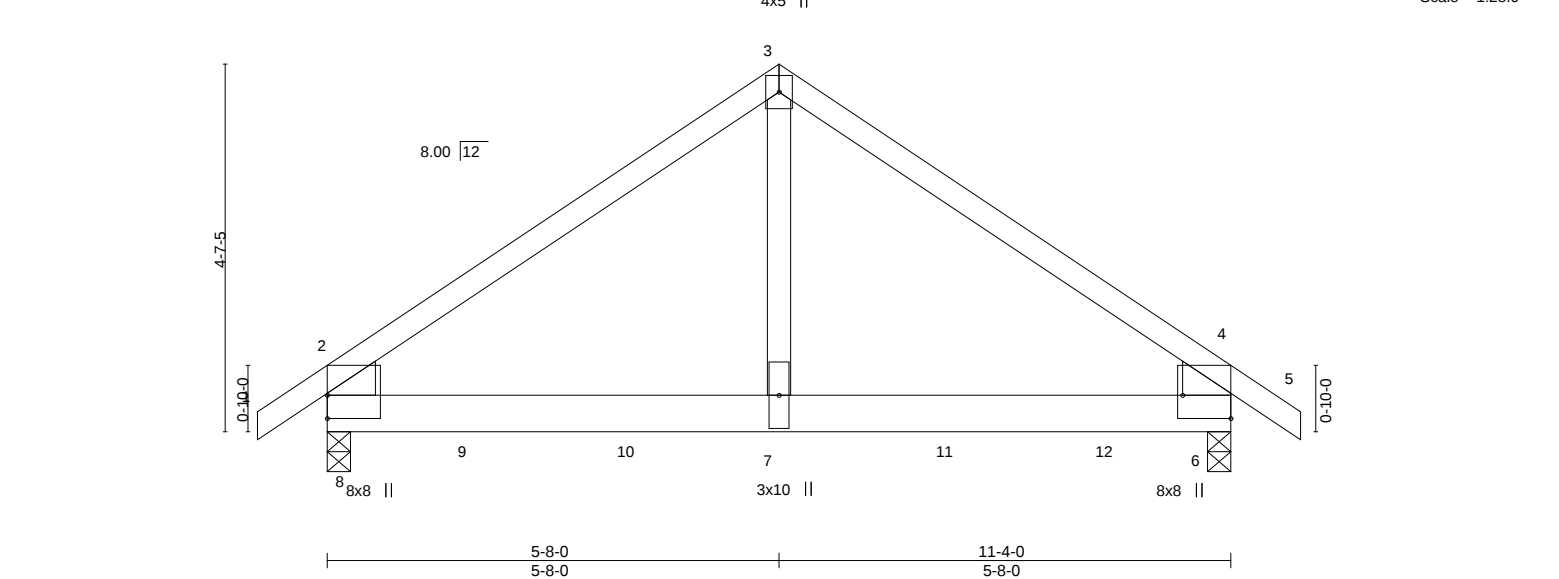


Plate Offsets (X,Y)--		[6:Edge,0-7-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.55	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(LL) -0.06 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Vert(CT) -0.10 7-8 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.01 6 n/a n/a
			Wind(LL) 0.03 7-8 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 104 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x8 SP 2400F 2.0E *Except* 3-7: 2x4 SPF No.2	

REACTIONS.	(size) 8=0-3-8, 6=0-3-8
Max Horz 8=-138(LC 6)	
Max Uplift 8=-145(LC 8), 6=-148(LC 9)	
Max Grav 8=3949(LC 2), 6=4125(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3784/158, 3-4=-3784/158, 2-8=-2336/174, 4-6=-2336/174	
BOT CHORD 7-8=-49/3047, 6-7=-49/3047	
WEBS 3-7=-41/3886	

- 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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=145, 6=148.
 - This truss 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) 1421 lb down and 34 lb up at 1-10-0, 1421 lb down and 34 lb up at 3-10-0, 1421 lb down and 34 lb up at 5-10-0, and 1421 lb down and 34 lb up at 7-10-0, and 1421 lb down and 34 lb up at 9-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	C2	Common Girder	1	2	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEB'S SUMMIT, MISSOURI
01/05/2021

143840386

- LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20
Concentrated Loads (lb)
Vert: 7=-1373(B) 9=-1373(B) 10=-1373(B) 11=-1373(B) 12=-1373(B)



**RELEASE FOR
CONSTRUCTION**
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

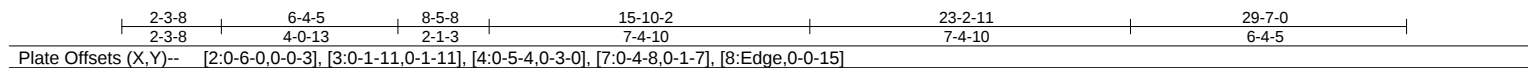
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(onal)
tries, Inc. 1600 S. 16th St. Suite 100
VwAel?dK0_uLVgKgx4dP940XZQH?VvYcXiv

29-7-0
6-4-5

01/05/2022

20-5-8
0-10-8



LUMBER- TOP CHORD 2x6 SP DSS *Except* 4-7: 2x4 SPF 2100F 1.8E, 7-9: 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 *Except* 5-13: 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Right: 2x4 SPF No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-16.
REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=112(LC 7) Max Uplift 2=-491(LC 8), 8=-450(LC 9) Max Grav 2=2392(LC 1), 8=2374(LC 1)	

NOTES-

- 1) 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: 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=491, 8=450.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical page 2 representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3, 2020

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 01/05/2021
W0 88	D1	HIP GIRDER	1	2	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,						8.430 s Nov 30 2020 MiTek Industries, Inc. Web's Summit Missouri

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 102 lb up at 6-9-7, 125 lb down and 77 lb up at 8-9-7, 125 lb down and 77 lb up at 10-9-7, 125 lb down and 77 lb up at 12-9-7, 125 lb down and 77 lb up at 14-9-7, 125 lb down and 77 lb up at 16-9-8, 125 lb down and 77 lb up at 18-9-8, and 125 lb down and 77 lb up at 20-9-8, and 120 lb down and 77 lb up at 22-9-8 on top chord, and 368 lb down and 193 lb up at 6-4-5, 57 lb down and 32 lb up at 6-9-7, 60 lb down at 8-7-4, 60 lb down at 10-9-7, 60 lb down at 12-9-7, 60 lb down at 14-9-7, 60 lb down at 16-9-8, 60 lb down at 18-9-8, 60 lb down at 20-9-8, and 60 lb down at 22-9-8, and 357 lb down and 168 lb up at 23-2-11 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, 4-7=-70, 7-9=-70, 2-16=-20, 3-14=-20, 8-13=-20
- Concentrated Loads (lb)
- Vert: 14=-45(F) 5=-93(F) 15=-424(F) 10=-357(F) 17=-82(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-93(F) 24=-93(F) 25=-45(F) 26=-45(F) 27=-45(F) 28=-45(F) 29=-45(F) 30=-45(F) 31=-45(F)

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEBB COUNTY, MISSOURI 143840388 8.430 s Nov 30 2020 MiTek Industries, Inc. 17052020
W0 88	D2	Hip	1	1		12/05/2021
Wheeler Lumber, Waverly, KS - 66871,						Job Reference (optional)
ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-LWfVggPkGEIVw9CXZiPatjDVjLT8WIXmD9rXxyCxiu						29-7-0 4-2-10 30-5-8 0-10-8
0-10-8 0-10-8	2-3-8 2-3-8	8-7-11 6-4-3	14-9-8 6-1-13	20-11-5 6-1-13	25-4-5 4-5-2	29-7-0 4-2-10 30-5-8 0-10-8
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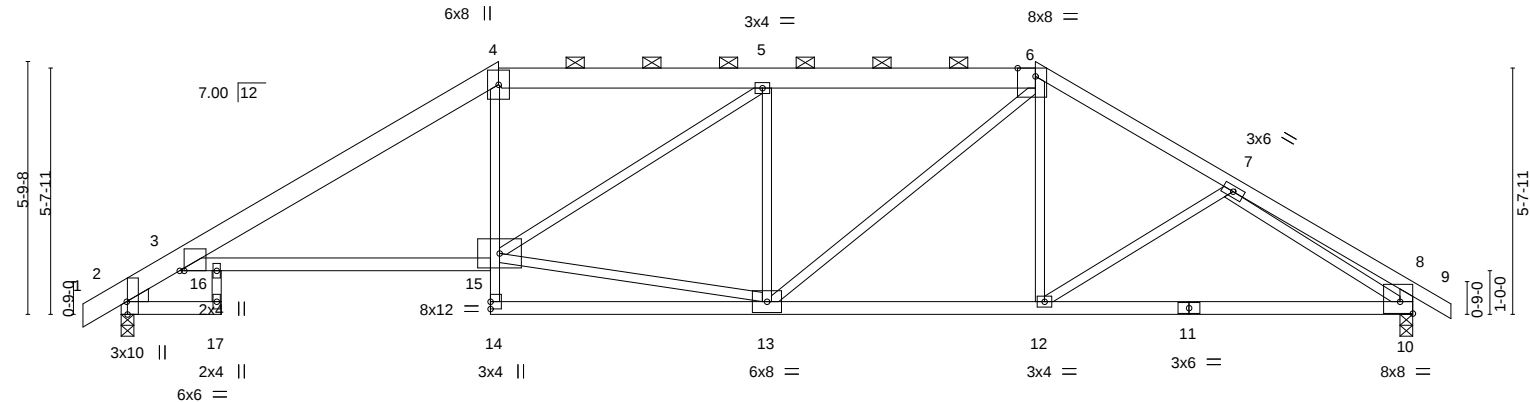


Plate Offsets (X, Y)--		[2:0-3-8,Edge], [3:0-1-4,0-0-0], [6:0-4-15,Edge], [10:Edge,0-3-4]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.64	Vert(LL) -0.27 15-16	>999 360
BC 0.65	Vert(CT) -0.53 15-16	>664 240
WB 0.87	Horz(CT) 0.30 10	n/a n/a
Matrix-S	Wind(LL) 0.21 15-16	>999 240
PLATES	GRIP	
MT20	197/144	
Weight: 135 lb		FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
4-6: 2x6 SPF No.2, 6-9: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-15: 2x4 SPF 2100F 1.8E, 4-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
8-10: 2x4 SPF No.2

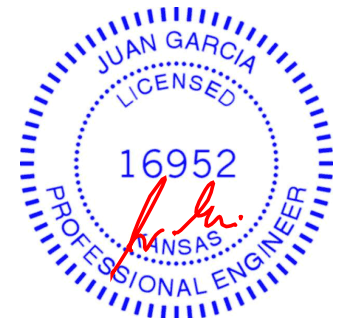
WEDGE
Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=156(LC 7)
Max Uplift 2=-131(LC 8), 10=-131(LC 9)
Max Grav 2=1390(LC 1), 10=1390(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-876/97, 3-4=-2344/196, 4-5=-1981/207, 5-6=-1875/177, 6-7=-1808/142,
7-8=-552/61, 8-10=-468/99
BOT CHORD 3-16=-227/2017, 15-16=-228/2021, 4-15=-28/563, 12-13=-51/1508, 10-12=-95/1579
WEBS 13-15=-191/1891, 5-13=-579/232, 6-13=-184/582, 6-12=0/295, 7-10=-1441/135

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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=131, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3, 2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

W0 88

Truss

D3

Truss Type

Hip

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

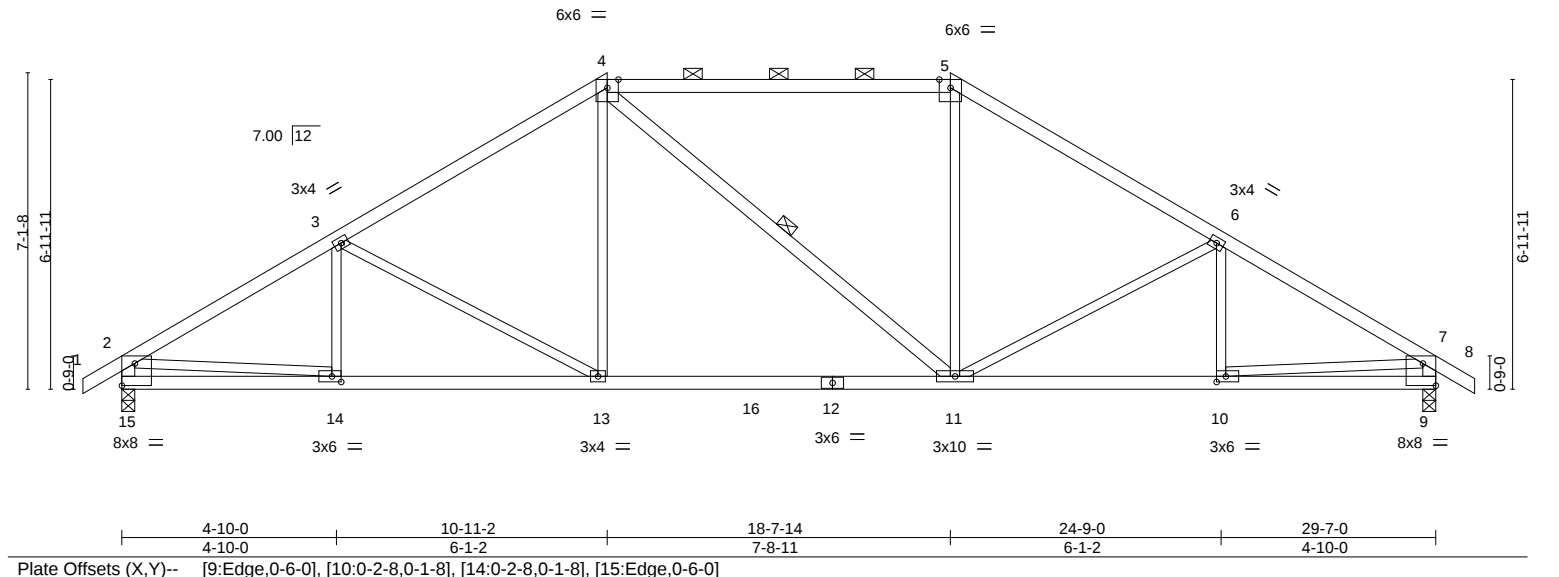
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

WEB SITE: MISSOURI

61/05/2021

Scale = 1:51.9



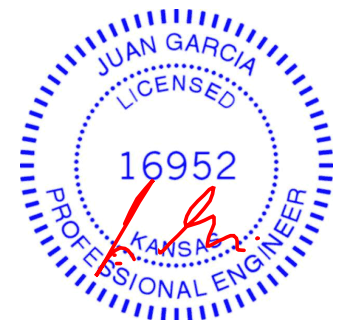
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.16 11-13 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.29 11-13 >999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05 13-14 >999				
								Weight: 120 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 3-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 4-11,2-15,7-9: 2x4 SPF No.2	WEBS	1 Row at midpt 4-11

REACTIONS.	
(size)	15=0-3-8, 9=0-3-8
Max Horz	15=198(LC 7)
Max Uplift	15=-153(LC 8), 9=-153(LC 9)
Max Grav	15=1443(LC 2), 9=1435(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2063/199, 3-4=-1774/172, 4-5=-1445/200, 5-6=-1758/172, 6-7=-2051/199, 2-15=-1352/177, 7-9=-1345/177
BOT CHORD	14-15=-174/476, 13-14=-201/1798, 11-13=-83/1458, 10-11=-99/1712, 9-10=-43/343
WEBS	3-13=-409/190, 4-13=-3/505, 5-11=0/466, 6-11=-412/190, 2-14=-64/1386, 7-10=-56/1378

- 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) 15=153, 9=153.
 - This truss 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUBMIT TO MISSOURI 143840390
W0 88	D4	Hip	1	1	Job Reference (optional)	1/31/2021
Wheeler Lumber, Waverly, KS - 66871,		8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfjIB6I7Q?gPMzrYWU-IuMF5VQ?nrYD9TMvh7R2y8lr69CNCrqqDXecqyCxis				01/05/2021
-0-10-8	6-6-8	13-2-9	16-4-7	23-0-8	29-7-0	30-5-8
0-10-8	6-6-8	6-8-1	3-1-14	6-8-1	6-6-8	0-10-8
6x6 =						Scale = 1:57.7
4x9 =						

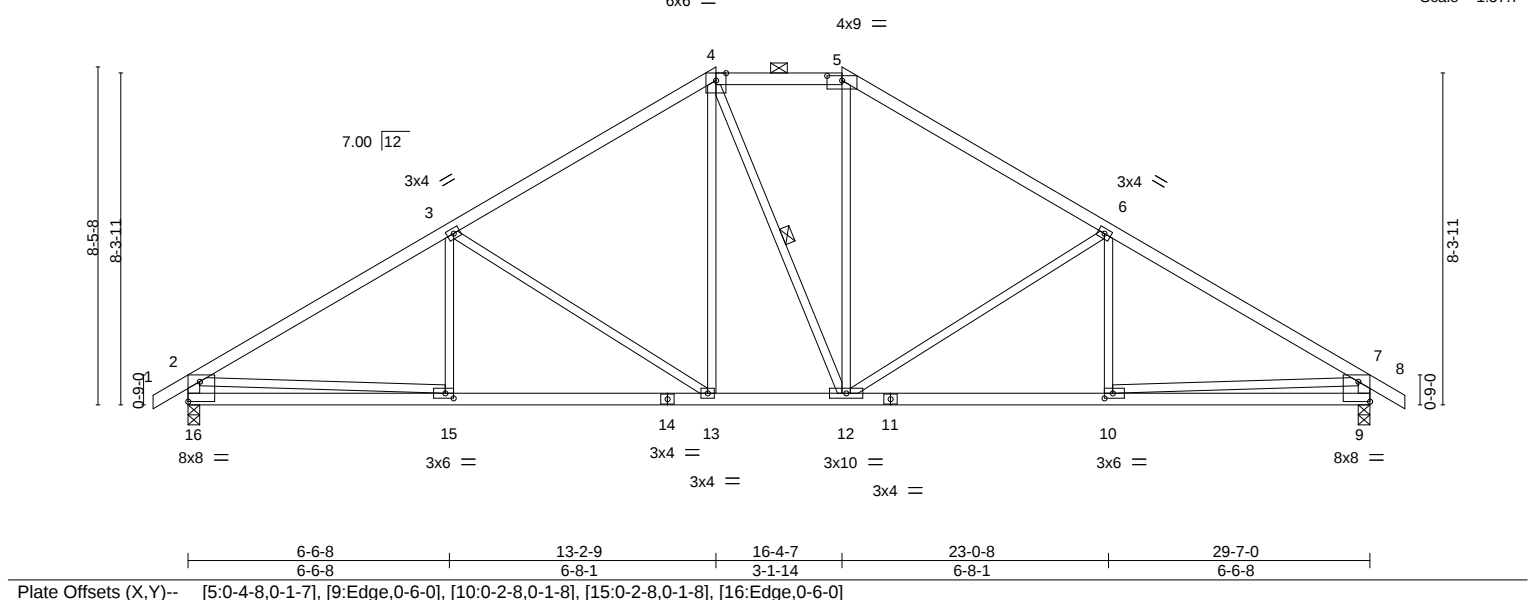


Plate Offsets (X, Y)--		[5:0-4-8,0-1-7], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [15:0-2-8,0-1-8], [16:Edge,0-6-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58
TCDL 10.0	Lumber DOL	1.15	BC 0.49
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.08 13-15	>999	360
Vert(CT)	-0.18 13-15	>999	240
Horz(CT)	0.05 9	n/a	n/a
Wind(LL)	0.05 13-15	>999	240
PLATES	GRIP		
MT20	197/144		
Weight: 124 lb	FT = 10%		

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

REACTIONS.	(size) 16=0-3-8, 9=0-3-8
	Max Horz 16=233(LC 7)
	Max Uplift 16=-171(LC 8), 9=-171(LC 9)
	Max Grav 16=1390(LC 1), 9=1390(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1985/221, 3-4=-1512/204, 4-5=-1196/229, 5-6=-1513/204, 6-7=-1985/221, 2-16=-1325/205, 7-9=-1324/205
BOT CHORD	15-16=-250/637, 13-15=-216/1620, 12-13=-32/1195, 10-12=-90/1620, 9-10=-135/506
WEBS	3-13=-544/218, 4-13=-62/389, 5-12=-52/379, 6-12=-541/218, 2-15=0/1120, 7-10=0/1118

- 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) 16=171, 9=171.
 - This truss 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.



December 3,2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

W0 88

Truss

D5

Truss Type

Roof Special

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: 888-201-2524

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SITE: 888-201-2524

143840391

01/05/2021

Wheeler Lumber,

Waverly, KS - 66871,

ID: 2ncXplsxOfbjlB6l7Q?gPMzrYWU-m5wdJrRdY9g4ndx6FqyHVLr1RZWlVcZsBOV8GyCxr

0-10-8

2-3-8

6-6-9

12-2-8

14-9-8

21-3-14

29-7-0

0-10-8

2-3-8

4-3-1

5-7-15

2-7-0

6-6-6

8-3-2

4x9 =

7.00 12

4x9 =

3x4 =

2x4 ||

3x4 =

2x4 ||

4x9 =

2x4 ||

4x9 =

2x4 ||

7x12 =

3x6 ||

5x12 =

3x4 =

8x8 =

2-3-8

2-3-8

6-6-9

4-3-1

12-2-8

5-7-15

14-9-8

2-7-0

21-3-14

6-6-6

29-7-0

8-3-2

Truss diagram showing a gable roof structure. The side elevation view shows a gable with a peak height of 9'-4.9". The plan view shows the layout of the truss members and plate offsets. Members are labeled with sizes and quantities: 4x9, 3x4, 2x4, 7x12, 3x6, 5x12, 8x8, etc. Plate offsets are indicated at the bottom of the plan view.

Plate Offsets (X,Y)--		[2:0-0-0,0-0-1], [3:0-6-4,0-0-0], [5:0-4-8,Edge], [11:0-3-4,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54
TCDL 10.0	Lumber DOL	1.15	BC 0.61
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.18 13-14 >999 360
			Vert(CT) -0.42 13-14 >844 240
			Horz(CT) 0.19 11 n/a n/a
			Wind(LL) 0.14 16-17 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 142 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except end verticals.
1-5: 2x6 SP 2400F 2.0E, 8-10: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 4-15
2-18: 2x6 SPF No.2, 3-15: 2x4 SPF 2100F 1.8E, 6-14: 2x3 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
7-13: 2x4 SPF No.2, 10-11: 2x6 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 11=0-3-8
Max Horz 2=248(LC 7)	
Max Uplift 2=181(LC 8), 11=156(LC 9)	
Max Grav 2=1387(LC 1), 11=1313(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-892/166, 3-4=-2567/333, 4-6=-1784/254, 6-7=-1652/347, 7-9=-1914/428, 9-10=-1930/221, 10-11=-1238/198
BOT CHORD	3-17=-363/2248, 16-17=-363/2248, 15-16=-363/2249, 11-13=-150/538
WEBS	4-16=0/315, 4-15=-982/287, 13-15=-56/1029, 7-15=-233/922, 7-13=-302/762, 9-13=-585/352, 10-13=-29/1017

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=181, 11=156.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Professional Engineer Seal for Juan Garcia, State of Missouri, License Number E-2000162101.

Licensed Professional Engineer Seal for Juan Garcia, License Number 16952.

December 3, 2020

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MiTek

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT MISSOURI 01/05/2021
W0 88	E1	Roof Special Girder	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsxfB6I7Q?gPMzrYWU-iT2OjXT4mxo0w5UMF_lamwHxM7apotGwVtcD9yCxip						

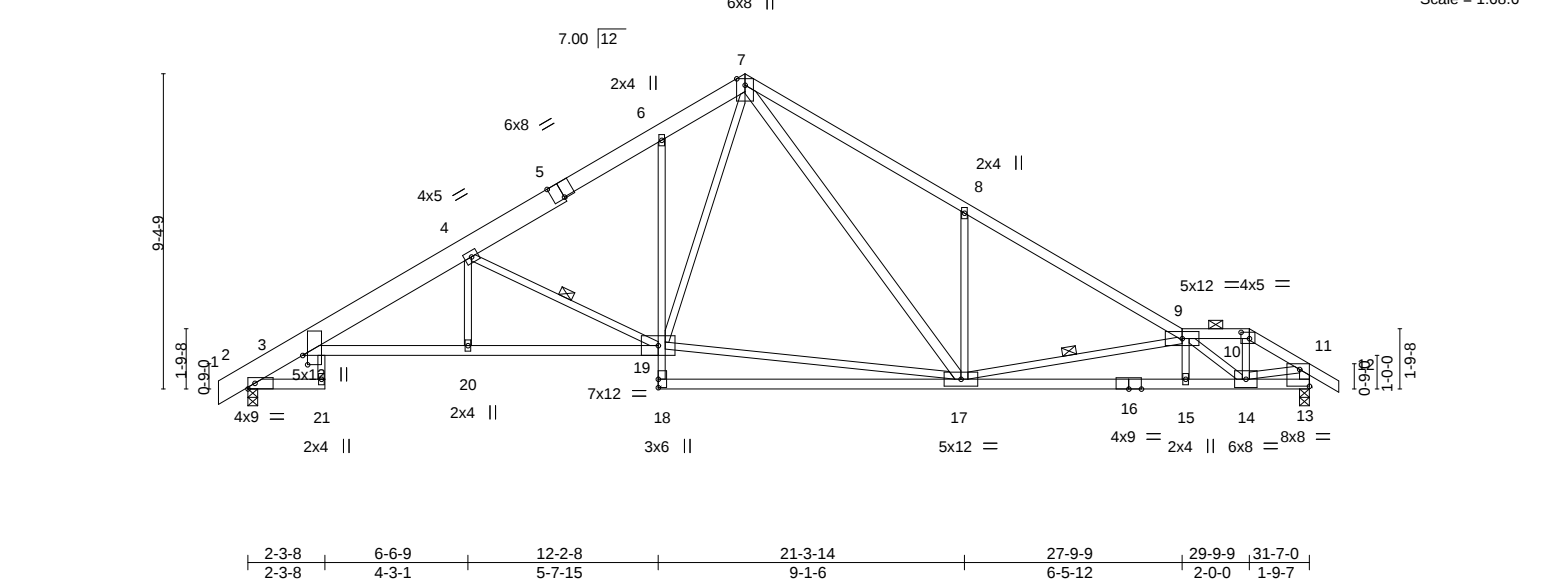


Plate Offsets (X,Y)--		[3:0-3-5,0-1-12], [5:0-4-0,Edge], [10:0-3-0,0-2-4], [13:Edge,0-6-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.19 17-18	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.43 17-18	>868	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.22 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12 19-20	>999	240	Weight: 163 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-6 max.): 9-10.
5-7: 2x6 SPF No.2, 1-5: 2x8 SP DSS	
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
6-18: 2x3 SPF No.2, 16-18: 2x4 SPF 2100F 1.8E	
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 4-19, 9-17
7-17,11-13: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 13=0-3-8
	Max Horz 2=252(LC 28)
	Max Uplift 2=179(LC 8), 13=213(LC 9)
	Max Grav 2=1493(LC 1), 13=1476(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-887/192, 3-4=-2751/335, 4-6=-2004/263, 6-7=-1864/359, 7-8=-2303/462, 8-9=-2294/277, 9-10=-1524/224, 10-11=-1754/239, 11-13=-1431/222
BOT CHORD	3-20=-364/2481, 19-20=-362/2481, 15-17=-360/3028, 14-15=-355/3030
WEBS	4-19=-1019/281, 17-19=-62/1217, 7-19=-230/965, 7-17=-326/1019, 8-17=-518/308, 9-17=-1154/264, 9-14=-1916/246, 10-14=-139/814, 11-14=-157/1379

- 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=179, 13=213.
 - This truss 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) 131 lb down and 68 lb up at 29-9-9 on top chord, and 12 lb down and 10 lb up at 29-8-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
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Continued on page 2

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December 3, 2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	E1	Roof Special Girder	1	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-iT2OjXT4mxo0w5UMF_lamwHxM7apotGwVtcD9yCxp

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEBB COUNTY MISSOURI
01/05/2021

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 11-12=-70, 2-21=-20, 3-19=-20, 13-18=-20
Concentrated Loads (lb)
Vert: 14=4(F)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT MISSOURI 01/05/2021 Scale = 1:61.1			
W0 88	E2	Roof Special	1	1					
Job Reference (optional)									
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Web Release 01/05/2021 Page 1									
ID:2ncXplsOfjIB6l7Q?gPMzrYWU-Agcmt1Vr43fe4ghwzW_6_TWdWMUYCJQ89c9lbyCxi0									
-0-10-8 0-10-8	2-3-8	8-3-2 5-11-10	14-9-8 6-6-6	17-6-0 2-8-8	20-7-8 3-1-8	25-6-2 4-10-10	27-6-2 2-0-0	31-7-8 4-0-14	0-10-8

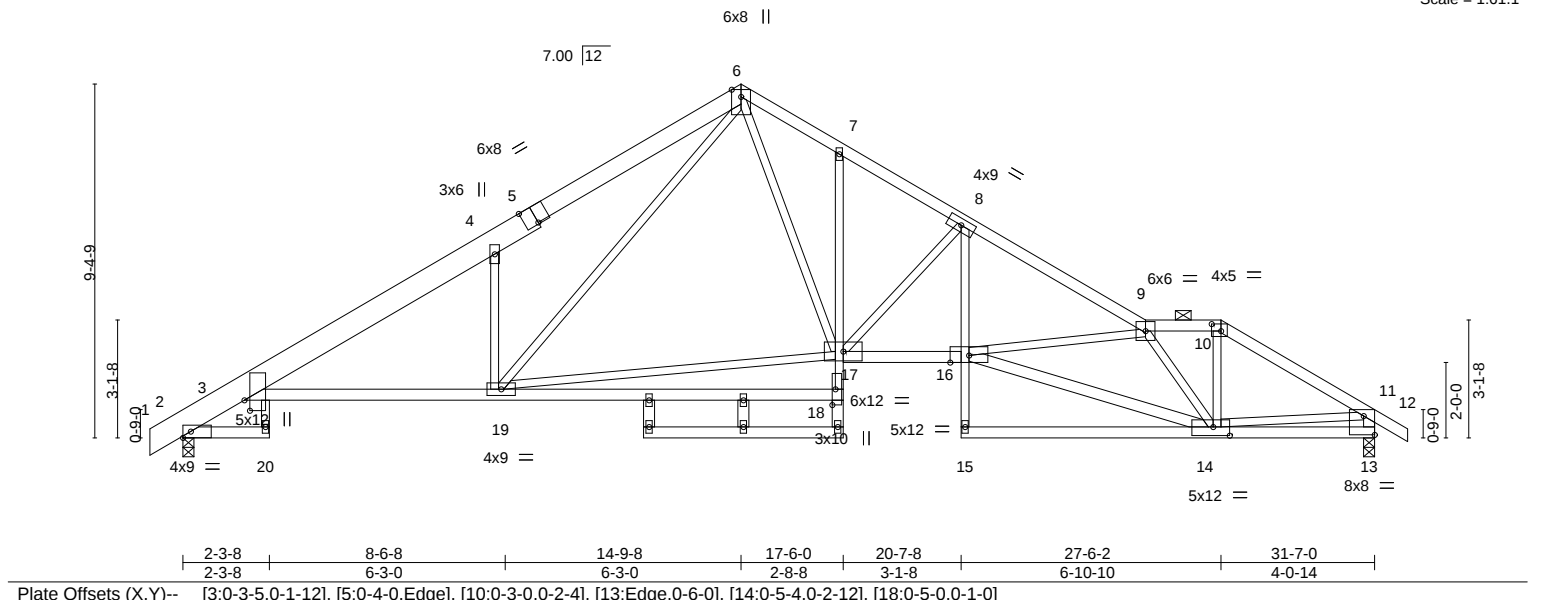


Plate Offsets (X, Y)--		[3:0-3-5,0-1-12], [5:0-4-0,Edge], [10:0-3-0,0-2-4], [13:Edge,0-6-0], [14:0-5-4,0-2-12], [18:0-5-0,0-1-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.64	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(LL) -0.24 18-19 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Vert(CT) -0.57 18-19 >661 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.33 13 n/a n/a
			Wind(LL) 0.16 3-19 >999 240
			PLATES MT20 GRIP 197/144
			Weight: 174 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-10 max.): 9-10.
5-6: 2x6 SPF No.2, 1-5: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SPF No.2 *Except*	6-0-0 oc bracing: 2-20.
7-18,8-15: 2x3 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
14-16,11-13,21-23,18-22,24-25: 2x4 SPF No.2	

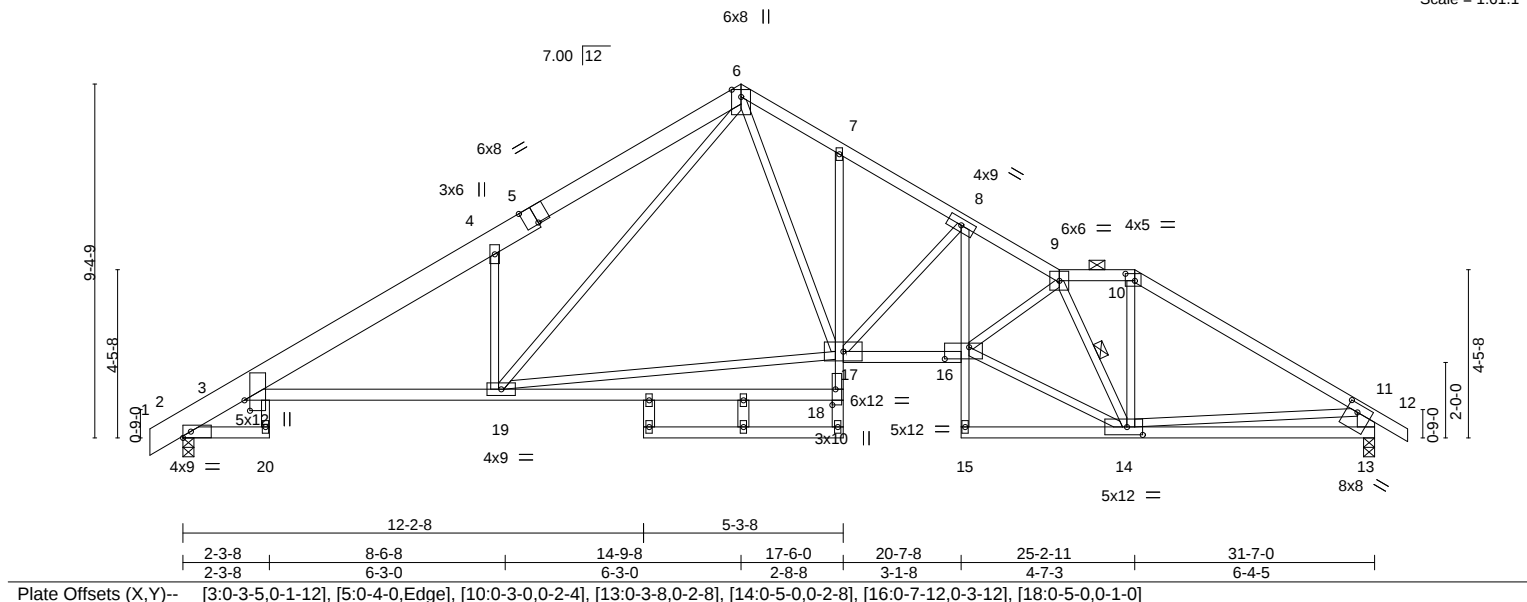
REACTIONS.	(size) 2=0-3-8, 13=0-3-8
Max Horz 2=252(LC 7)	
Max Uplift 2=178(LC 8), 13=203(LC 9)	
Max Grav 2=1493(LC 1), 13=1480(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-886/191, 3-4=-2524/283, 4-6=-2689/508, 6-7=-2263/336, 7-8=-2342/272,	
8-9=-3378/341, 9-10=-1866/260, 10-11=-2103/256, 11-13=-1430/218	
BOT CHORD 3-19=-287/2216, 16-17=-120/2877, 8-16=-68/1179, 13-14=-87/343	
WEBS 4-19=-880/395, 6-19=-348/1148, 6-17=-209/1339, 8-17=-1347/238, 14-16=-301/3023,	
9-14=-2152/268, 10-14=-51/855, 11-14=-58/1407, 17-19=-81/1358	

- 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.
 - 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=178, 13=203.
 - This truss 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 01/05/2021 Scale = 1/61.1			
W0 88	E3	Roof Special	1	1					
Job Reference (optional)									
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Waverly, MO 64689-2402 ID:2ncXplsxOfjIB6l7Q?gPMzryYUw-esA88DU7COBWGEETUg1DfBohaQyHeQZNpMiH1yCxin									
-0-10-8 0-10-8	2-3-8 2-3-8	8-3-2 5-11-10	14-9-8 6-6-6	17-6-0 2-8-8	20-7-8 3-1-8	23-2-11 2-7-3	25-2-11 2-0-0	31-7-0 6-4-5	01/05/2021 0-10-8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.24	18-19	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.57	18-19	>661		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.34	13	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.16	3-19	>999	Weight: 173 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 9-10.
5-6: 2x6 SPF No.2, 1-5: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SPF No.2 *Except*	6-0-0 oc bracing: 2-20.
7-18,8-15: 2x3 SPF No.2	WEBS 1 Row at midpt 9-14
WEBS 2x3 SPF No.2 *Except*	
11-13: 2x6 SPF No.2, 21-23,18-22,24-25: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 13=0-3-8
Max Horz 2=253(LC 7)	
Max Uplift 2=177(LC 8), 13=204(LC 9)	
Max Grav 2=1489(LC 1), 13=1483(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-884/190, 3-4=-2516/283, 4-6=-2681/507, 6-7=-2265/339, 7-8=-2320/268, 8-9=-3343/345, 9-10=-1734/273, 10-11=-2083/260, 11-13=-1413/241
BOT CHORD	3-19=-285/2208, 16-17=-113/2893, 8-16=-103/1290, 13-14=-192/581
WEBS	4-19=-880/395, 6-19=-348/1149, 6-17=-213/1335, 8-17=-1378/221, 14-16=-189/2831, 9-16=-6/418, 9-14=-2136/154, 10-14=-13/671, 11-14=0/1112, 17-19=-80/1349

- 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.
 - 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=177, 13=204.
 - This truss 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 13840395
W0 88	E4	Roof Special	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. 143840395						

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. 143840395

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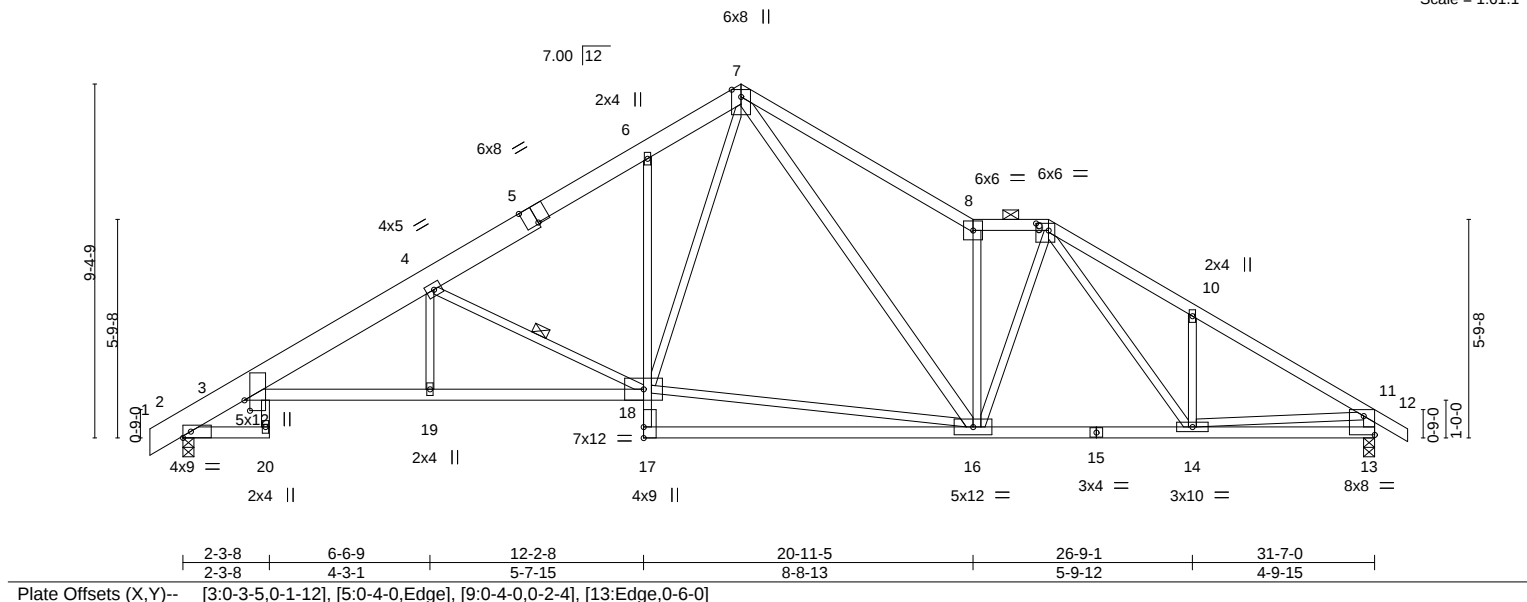


Plate Offsets (X,Y)--		[3:0-3-5,0-1-12], [5:0-4-0,Edge], [9:0-4-0,0-2-4], [13:Edge,0-6-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.79	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.20 16-17 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.46 16-17 >814 240
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.21 13 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.12 18-19 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 168 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 8-9.
5-7: 2x6 SPF No.2, 1-5: 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 4-18
6-17: 2x3 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
7-16,11-13: 2x4 SPF No.2	

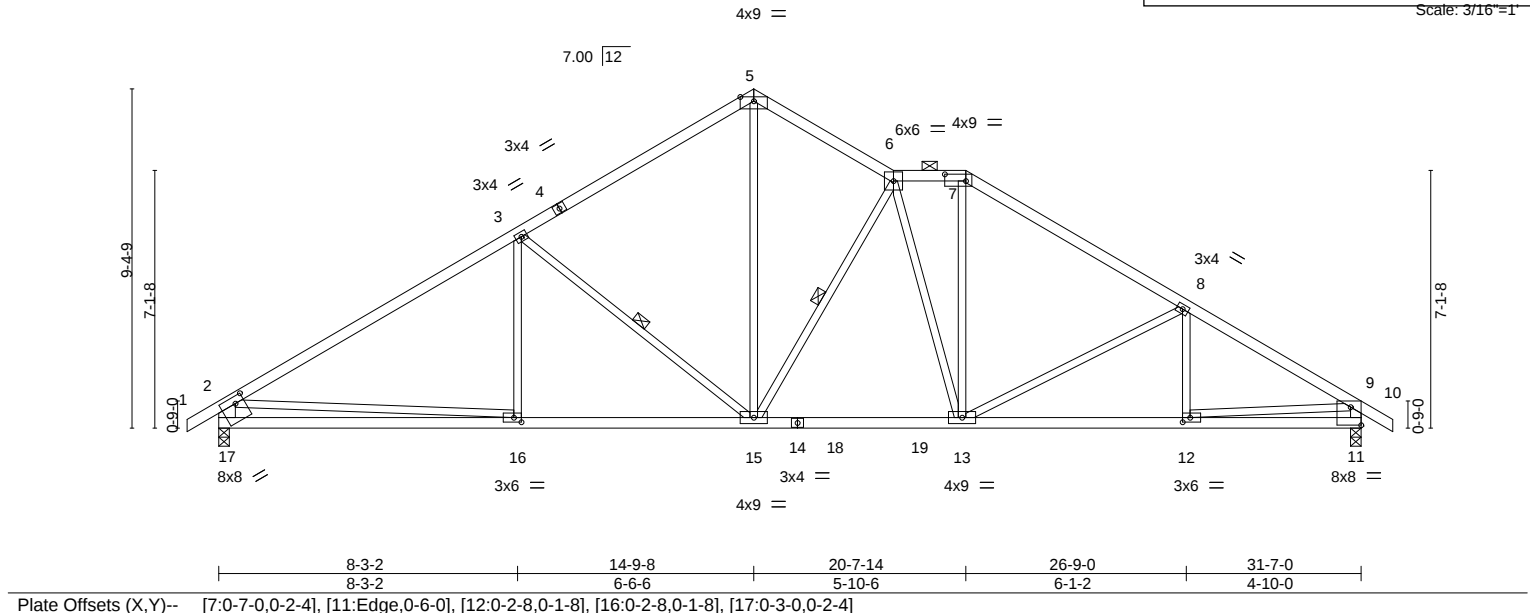
REACTIONS.	(size) 2=0-3-8, 13=0-3-8
Max Horz 2=252(LC 7)	
Max Uplift 2=178(LC 8), 13=203(LC 9)	
Max Grav 2=1493(LC 1), 13=1480(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-886/191, 3-4=-2752/332, 4-6=-2005/260, 6-7=-1860/354, 7-8=-2198/424, 8-9=-1821/282, 9-10=-2087/393, 10-11=-2107/272, 11-13=-1421/228	
BOT CHORD 3-19=-361/2482, 18-19=-359/2482, 14-16=-62/1591, 13-14=-91/401	
WEBS 4-18=-1019/281, 16-18=-62/1222, 7-18=-226/956, 7-16=-285/914, 8-16=-1334/339, 9-16=-59/669, 9-14=-160/313, 10-14=-304/196, 11-14=-63/1346	

- 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=178, 13=203.
 - This truss 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.



December 3, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT MISSOURI 143840396
W0 88	E5	Roof Special	1	1	Job Reference (optional)	8.430 s Nov 30 2020 MiTek Industries, Inc. Wb53hkc5_HzYwlf0sq6rpMwyCxil
Wheeler Lumber, Waverly, KS - 66871,						01/05/2021
ID: 2ncXplsXOfbjiB617Q?gPMzrYWU-aElvZvW08?REVOYOfb53hkc5_HzYwlf0sq6rpMwyCxil						01/05/2021
0-10-8	8-3-2	14-9-8	18-7-14	20-7-14	26-9-0	31-7-0
0-10-8	8-3-2	6-6-6	3-10-6	2-0-0	6-1-2	4-10-0



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL)	-0.13 13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT)	-0.25 16-17	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT)	0.07 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.07 13	>999	240	Weight: 134 lb	FT = 10%

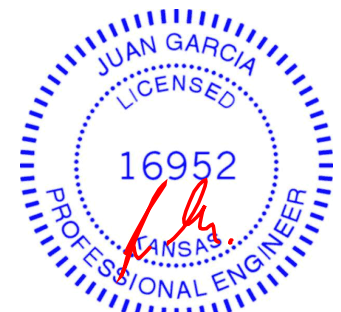
LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-17: 2x6 SPF No.2, 9-11: 2x4 SPF 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-9 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 9-4-3 oc bracing.
WEBS 1 Row at midpt 3-15, 6-15

REACTIONS. (size) 17=0-3-8, 11=0-3-8
Max Horz 17=-260(LC 6)
Max Uplift 17=-187(LC 8), 11=-203(LC 9)
Max Grav 17=1589(LC 15), 11=1568(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2179/234, 3-5=-1590/270, 5-6=-1539/261, 6-7=-1565/280, 7-8=-1887/265, 8-9=-2245/280, 2-17=-1454/233, 9-11=-1483/224
BOT CHORD 16-17=-387/1038, 15-16=-214/1931, 13-15=-54/1683, 12-13=-168/1854, 11-12=-57/362
WEBS 3-16=0/267, 3-15=-705/238, 5-15=-159/1191, 6-15=-751/225, 6-13=-302/93, 7-13=-36/661, 8-13=-433/179, 2-16=0/1033, 9-12=-111/1509

- 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) 17=187, 11=203.
 - This truss 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.



December 3, 2020

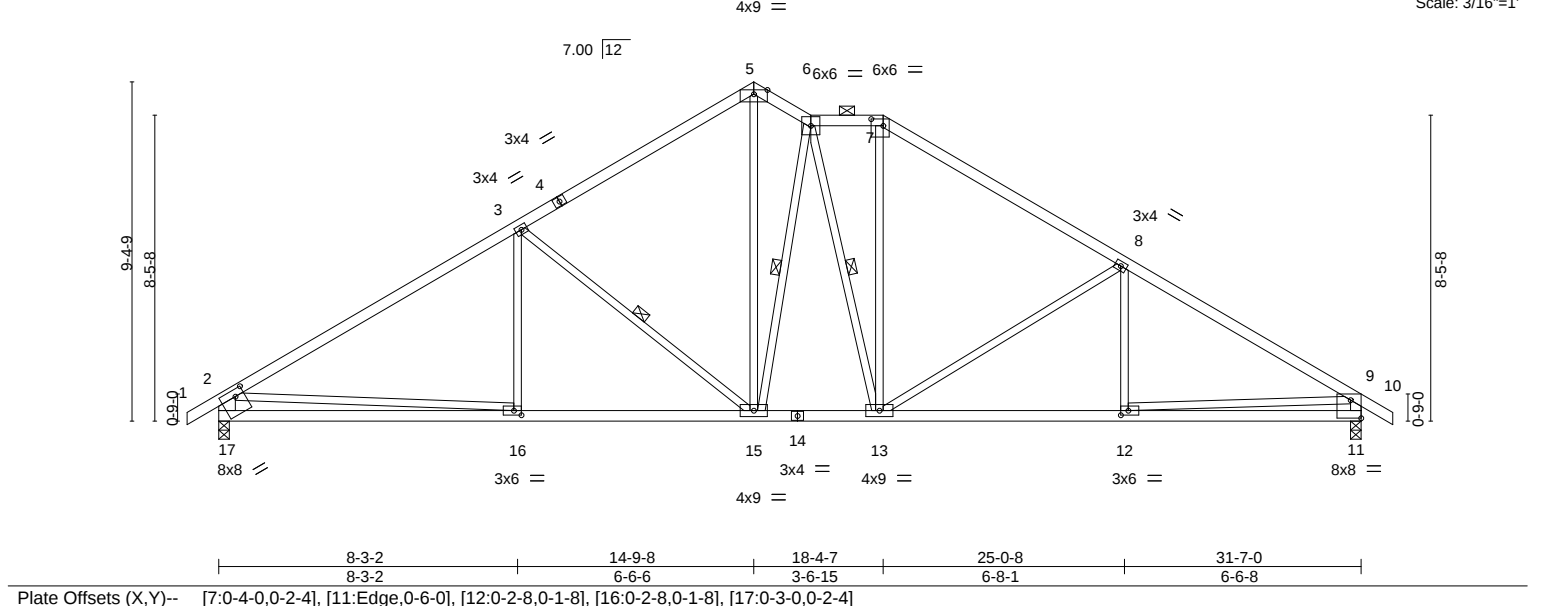
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LIFE'S SUMMIT MISSOURI 01/05/21
W0 88	E6	Roof Special	1	1		
Job Reference (optional)						
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Used To Build 66871, 2020 Page 1						
ID:2ncXplsOfbjB6l7Q?gPMzrYWU-3RrHnEX0vJZ57hSz90awHqe9_NvrU13?3maNuMyCxiK						
-0-10-8	8-3-2	14-9-8	16-4-7	18-4-7	25-0-8	31-7-0
0-10-8	8-3-2	6-6-6	1-6-15	2-0-0	6-8-1	6-6-8
						0-10-8



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.11 16-17 >999 360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15	BC 0.58	Vert(CT) -0.24 16-17 >999 240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.85	Horz(CT) 0.06 11 n/a n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 12-13 >999 240	Weight: 139 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-4 max.): 6-7.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 3-15, 6-15, 6-13
2-17: 2x6 SPF No.2, 9-11: 2x4 SPF 2400F 2.0E	

REACTIONS.	(size) 17=0-3-8, 11=0-3-8
	Max Horz 17=-260(LC 6)
	Max Uplift 17=-187(LC 8), 11=-203(LC 9)
	Max Grav 17=1482(LC 1), 11=1476(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2075/233, 3-5=-1540/272, 5-6=-1367/266, 6-7=-1327/280, 7-8=-1659/261, 8-9=-2135/276, 2-17=-1404/233, 9-11=-1411/236
BOT CHORD	16-17=-389/936, 15-16=-214/1666, 13-15=-34/1328, 12-13=-137/1748, 11-12=-146/536
WEBS	3-16=0/275, 3-15=-614/235, 5-15=-182/1028, 6-15=-634/205, 7-13=-33/386, 8-13=-543/215, 2-16=0/896, 9-12=-10/1216

- 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) 17=187, 11=203.
 - This truss 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
WO 88	E7	Hip	1	1	

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEB SITE: www.mitek.com
143840398
01/05/2021

0-10-8 8-3-2 15-6-0 16-1-0 23-3-14 31-7-0
0-10-8 8-3-2 7-2-15 0-7-0 7-2-15 8-3-2

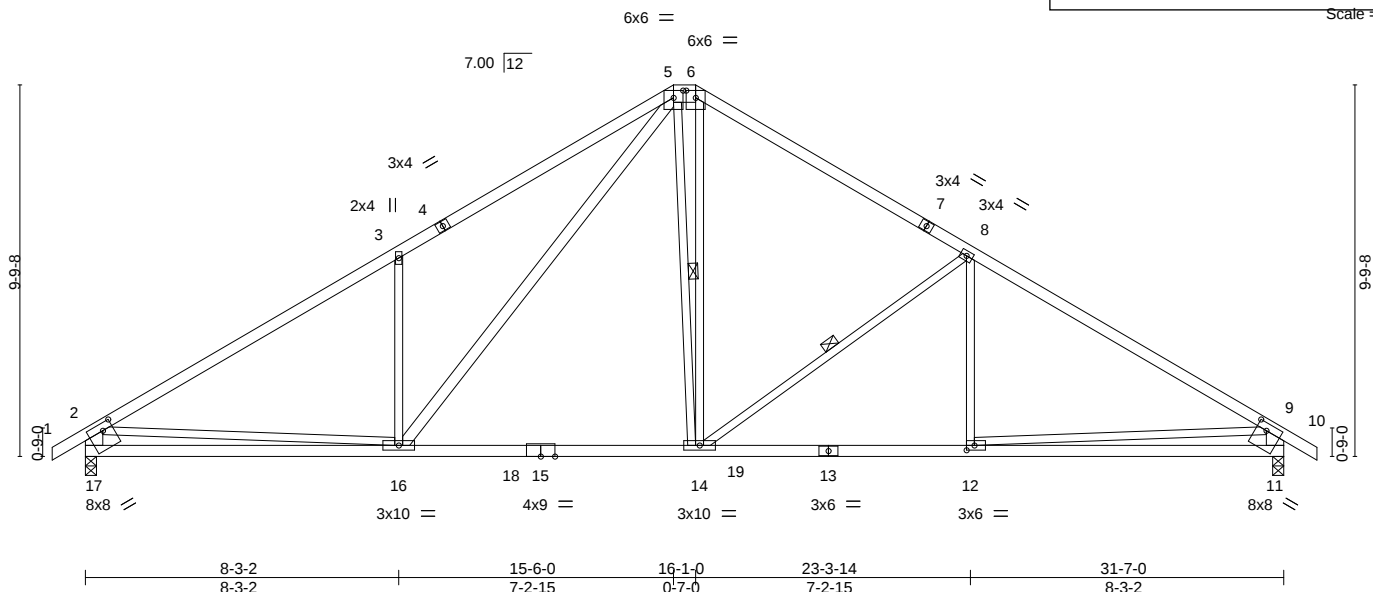


Plate Offsets (X,Y)-- [5:0-3-0,0-2-5], [6:0-3-0,0-2-5], [11:0-3-4,0-2-4], [12:0-2-8,0-1-8], [17:0-3-4,0-2-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.20 14-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.32 14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06 16	>999	240	Weight: 138 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.
WEBS 2x3 SPF No.2 *Except* 5-16: 2x4 SPF No.2, 2-17,9-11: 2x6 SPF No.2	WEBS 1 Row at midpt 5-14, 8-14

REACTIONS.	(size) 17=0-3-8, 11=0-3-8 Max Horz 17=-271(LC 6) Max Uplift 17=-191(LC 8), 11=-191(LC 9) Max Grav 17=1609(LC 15), 11=1600(LC 16)
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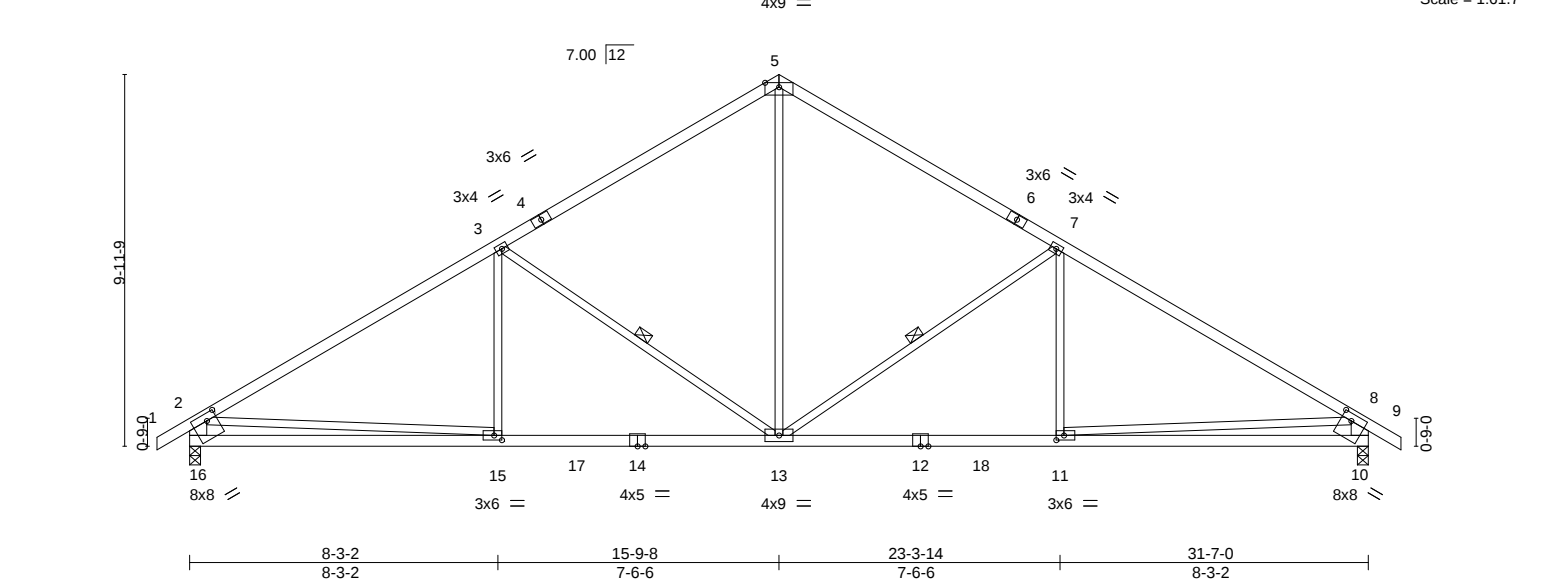
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2231/240, 3-5=-2290/461, 5-6=-1285/258, 6-8=-1605/253, 8-9=-2201/244, 2-17=-1483/235, 9-11=-1463/237
BOT CHORD	16-17=-389/1012, 14-16=-29/1354, 12-14=-81/1770, 11-12=-246/843
WEBS	3-16=-579/351, 5-16=-327/1042, 5-14=-202/417, 6-14=-123/581, 8-14=-726/251, 8-12=0/268, 2-16=0/1120, 9-12=0/1088

- 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) 17=191, 11=191.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 143840399 01/05/2021
W0 88	E8	Common	1	1		
Wheeler Lumber, Waverly, KS - 66871,						
8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-?pz1BwYGRwpoM?7qGDcOMFjW1BYpy?lIX43TyFyCxi						
0-10-8 8-3-2 15-9-8 23-3-14 31-7-0						
0-10-8 8-3-2 7-6-6 7-6-6 8-3-2						
4x9 =						Scale = 1.61.7



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 0.74	Vert(LL)	-0.14 13-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.24 13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 13-15	>999	240	Weight: 125 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 9-5-14 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-16,8-10: 2x6 SPF No.2	WEBS 1 Row at midpt 7-13, 3-13

REACTIONS.	(size) 16=0-3-8, 10=0-3-8
	Max Horz 16=-276(LC 6)
	Max Uplift 16=-192(LC 8), 10=-192(LC 9)
	Max Grav 16=1608(LC 15), 10=1608(LC 16)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2226/247, 3-5=-1574/262, 5-7=-1574/262, 7-8=-2226/247, 2-16=-1477/238, 8-10=-1477/237
BOT CHORD	15-16=-377/1006, 13-15=-238/1988, 11-13=-86/1795, 10-11=-237/816
WEBS	5-13=-94/1046, 7-13=-798/261, 7-11=0/312, 3-13=-799/262, 3-15=0/312, 2-15=0/1111, 8-11=0/1128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=192, 10=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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUBMIT TO MISSOURI 01/05/2021
W0 88	E9	Roof Special	5	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,						8.430 s Nov 30 2020 MiTek Industries, Inc.
0-10-8 8-3-2 15-9-8 19-4-8 25-0-7 28-7-14 31-3-14 0-10-8 8-3-2 7-6-6 3-7-0 5-7-15 3-7-7 2-8-0						Scale = 1.66.8

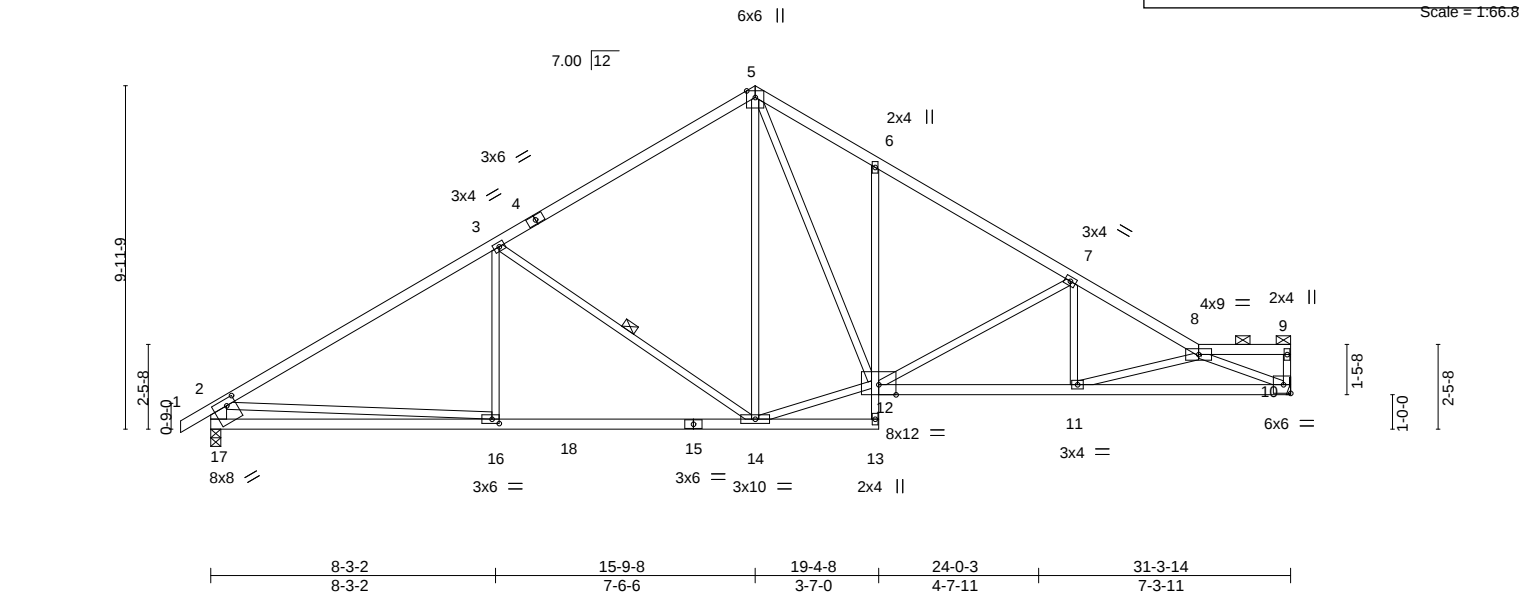


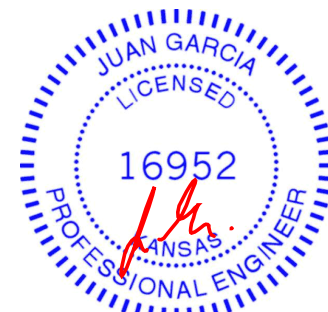
Plate Offsets (X,Y)--		[16:0-2-8,0-1-8], [17:0-3-4,0-2-4]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.74		Vert(LL)	-0.17 11-12	>999	360
TCDL 10.0		Lumber DOL	1.15	BC 0.86		Vert(CT)	-0.31 11-12	>999	240
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.87		Horz(CT)	0.10 10	n/a	n/a
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.07 11-12	>999	240
								Weight: 133 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 (6-0-0 max.): 8-9.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	6-13: 2x3 SPF No.2		6-0-0 oc bracing: 13-14.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt 3-14
	2-17: 2x6 SPF No.2		

REACTIONS.	(size) 10=Mechanical, 17=0-3-8
	Max Horz 17=222(LC 5)
	Max Uplift 10=-14(LC 9), 17=-24(LC 8)
	Max Grav 10=1450(LC 14), 17=1591(LC 13)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2208/39, 3-5=-1542/91, 5-6=-1984/135, 6-7=-2008/52, 7-8=-2708/20, 2-17=-1461/69
BOT CHORD	16-17=-221/935, 14-16=-54/1923, 6-12=-340/128, 11-12=0/2301, 10-11=-52/2859
WEBS	3-16=0/322, 3-14=-793/128, 5-14=-18/348, 12-14=0/1313, 5-12=-99/1241, 7-12=-814/75, 7-11=0/410, 8-11=-594/61, 8-10=-3066/64, 2-16=0/1098

- 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, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 17.
 - This truss 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.



December 3,2020

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01/05/2021

Scale = 1:66.6

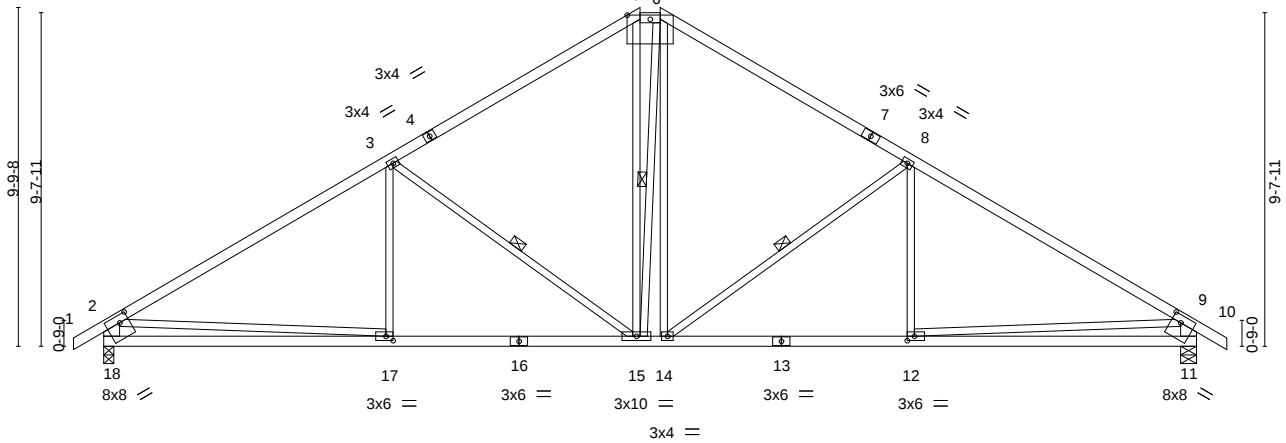


Plate Offsets (X,Y)--	[5:0-8-0,0-1-7], [11:0-3-4,0-2-8], [12:0-2-8,0-1-8], [17:0-2-8,0-1-8], [18:0-3-4,0-2-8]
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LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL 1.15		TC 0.75		Vert(LL) -0.11 17-18	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.60		Vert(CT) -0.23 17-18	>999	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.46		Horz(CT) 0.06 11	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.07 12-14	>999	240	Weight: 139 lb	FT = 10%

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-9 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 9-5-0 oc bracing.
WEBS	1 Row at midpt 3-15, 6-15, 8-14

(size) 18=0-3-8, 11=0-5-8
 Max Horz 18=-271(LC 6)
 Max Uplift 18=-191(LC 8), 11=-191(LC 9)
 Max Grav 18=1478(LC 1), 11=1478(LC 1)

TOP CHORD 2-3=-2072/244, 3-5=-1507/255, 5-6=-1180/251, 6-8=-1504/254, 8-9=-2075/244,
2-18=-1399/237, 9-11=-1401/237

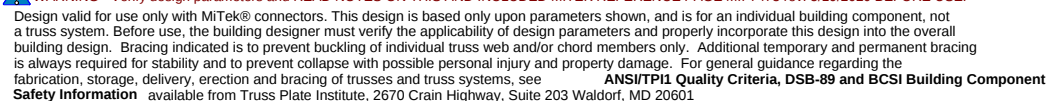
BOT CHORD 17-18=-382/921, 15-17=-229/1665, 14-15=-20/1179, 12-14=-82/1668, 11-12=-247/745

WEBS 3-17=0/275, 3-15=-640/249, 5-15=-151/572, 6-15=-276/262, 6-14=-75/381,
8-14=-642/248, 8-12=0/282, 2-17=0/916, 9-12=0/925

- 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) 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) except (jt=lb) 18=191, 11=191.
- 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.



December 3, 2020



Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUBMIT MISSOURI 01/05/2021 Scale = 1.55.2
W0 88	G2	Hip	1	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfBjIB6I7Q?gPMzrYWU-POfAqya9krBNDTsPyMA5_tL3KOcP9HUkD2I8ZayCxf

0-10-8 6-6-8 13-2-9 18-4-7 25-0-8 31-7-9 32-5-8
0-10-8 6-6-8 6-8-1 5-1-14 6-8-1 6-6-8 0-10-8

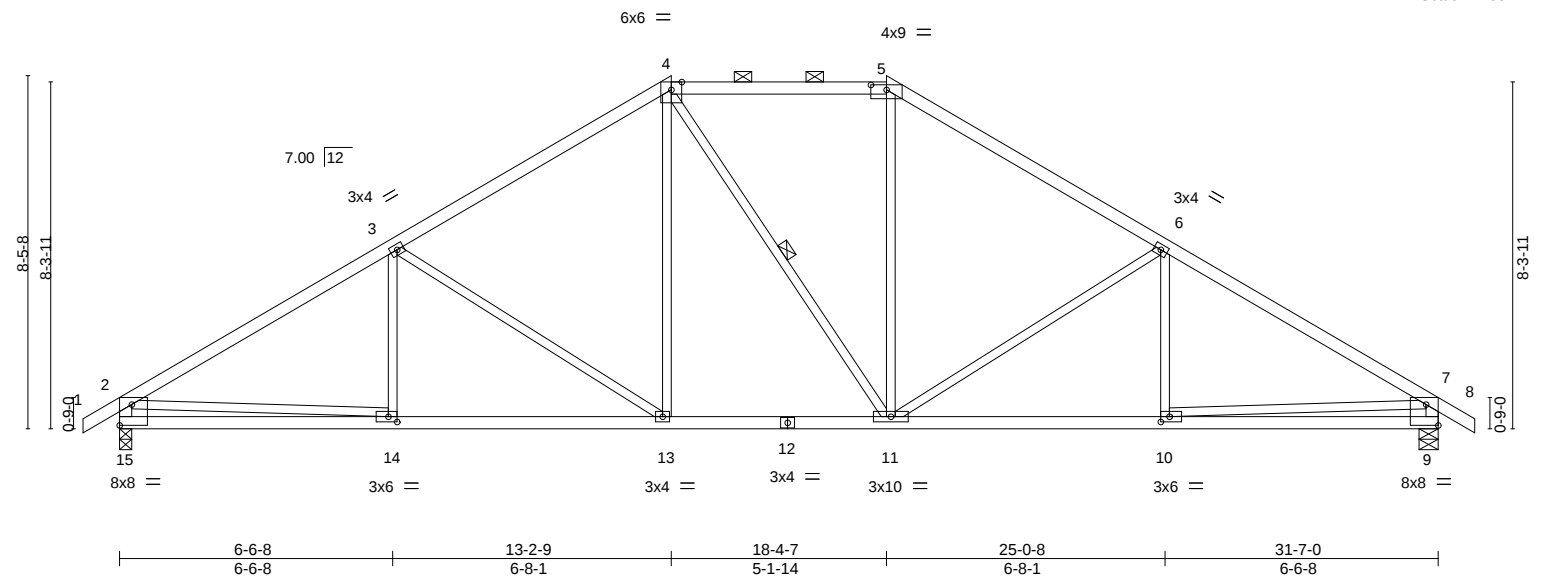


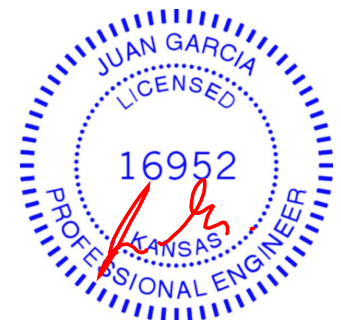
Plate Offsets (X,Y)--		[5:0-4-8,0-1-7], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.61
TCDL 10.0	Lumber DOL	1.15	BC 0.62
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.11 13-14 >999 360
			Vert(CT) -0.22 13-14 >999 240
			Horz(CT) 0.06 9 n/a n/a
			Wind(LL) 0.06 13-14 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 129 lb FT = 10%

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

REACTIONS.	(size) 15=0-3-8, 9=0-5-8
	Max Horz 15=233(LC 7)
	Max Uplift 15=-175(LC 8), 9=-175(LC 9)
	Max Grav 15=1550(LC 15), 9=1547(LC 16)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2219/228, 3-4=-1751/209, 4-5=-1418/234, 5-6=-1745/209, 6-7=-2213/228, 2-15=-1442/209, 7-9=-1438/209
BOT CHORD	14-15=-250/734, 13-14=-222/1964, 11-13=-37/1450, 10-11=-96/1831, 9-10=-134/575
WEBS	3-13=-603/219, 4-13=-50/568, 5-11=-30/533, 6-11=-603/219, 2-14=0/1306, 7-10=0/1301

- 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) 15=175, 9=175.
 - This truss 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.



December 3,2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR

CONSTRUCTION

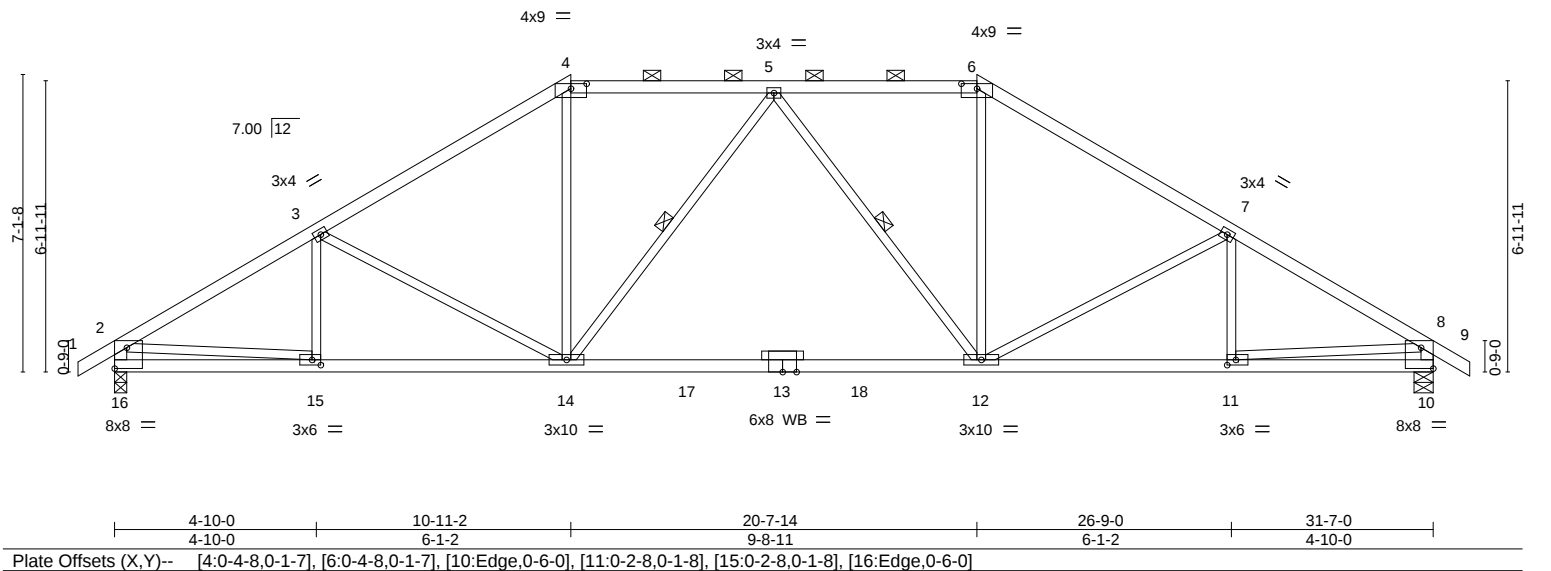
AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SITE: www.mitek.com

143840403

01/09/2021



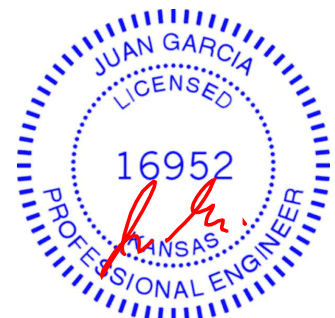
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.31 12-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.53 12-14	>713	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 14	>999	240	Weight: 127 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-9 max.): 4-6.
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 5-14, 5-12
OTHERS 2-16,8-10: 2x4 SPF No.2	
2x3 SPF No.2	

REACTIONS. (size) 16=0-3-8, 10=0-5-8
Max Horz 16=198(LC 7)
Max Uplift 16=-155(LC 8), 10=-155(LC 9)
Max Grav 16=1537(LC 2), 10=1537(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2210/206, 3-4=-1962/171, 4-5=-1615/198, 5-6=-1615/198, 6-7=-1962/171, 7-8=-2210/206, 2-16=-1433/181, 8-10=-1433/180
BOT CHORD 15-16=-170/520, 14-15=-208/1898, 12-14=-117/1736, 11-12=-105/1851, 10-11=-42/387
WEBS 3-14=-371/199, 4-14=0/648, 5-14=-372/192, 5-12=-372/192, 6-12=0/648, 7-12=-371/199, 2-15=-71/1474, 8-11=-64/1474

- 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) 16=155, 10=155.
 - This truss 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.



December 3,2020

Job

W0 88

Truss

G4

Truss Type

Hip

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-LnmwFecPF5R5Sm?o3mCZ3lQLzCHQdBl1gMnEeSyCxid

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

143840404

WEB SUBMIT MISSOURI

01/05/2021

27-4-6

4-5-2

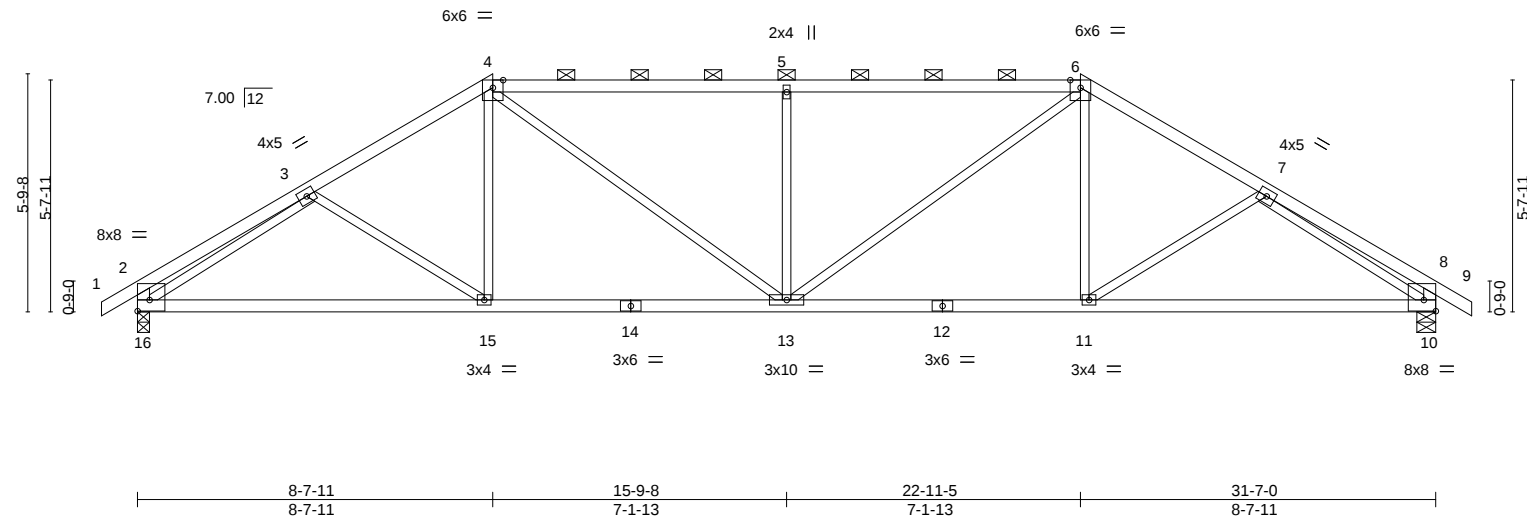
22-11-5

7-1-13

32-5-8

0-10-8

Scale = 1:56.1



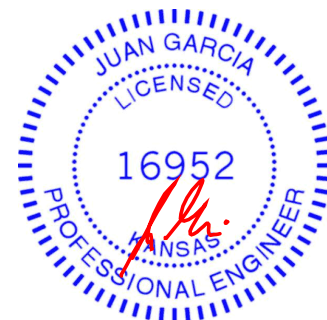
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.13 10-11 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.27 10-11 >999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.09 10 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08 13 >999 240				
								Weight: 121 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*		
	2-16,8-10: 2x4 SPF No.2		

REACTIONS.	
(size)	16=0-3-8, 10=0-5-8
Max Horz	16=163(LC 7)
Max Uplift	16=-132(LC 8), 10=-132(LC 9)
Max Grav	16=1480(LC 1), 10=1480(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-578/63, 3-4=-1969/176, 4-5=-2136/226, 5-6=-2136/226, 6-7=-1969/176, 7-8=-578/63, 2-16=-486/100, 8-10=-486/100
BOT CHORD	15-16=-237/1702, 13-15=-191/1644, 11-13=-77/1644, 10-11=-96/1702
WEBS	4-15=0/313, 4-13=-209/711, 5-13=-610/245, 6-13=-209/711, 6-11=0/313, 3-16=-1567/140, 7-10=-1567/141

- 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) 16=132, 10=132.
 - This truss 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.



December 3,2020

Job

W0 88

Truss

G5

Truss Type

Hip Girder

Qty

1

Ply

1

Lot 88 W0

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

Job Reference (optional)

143840405

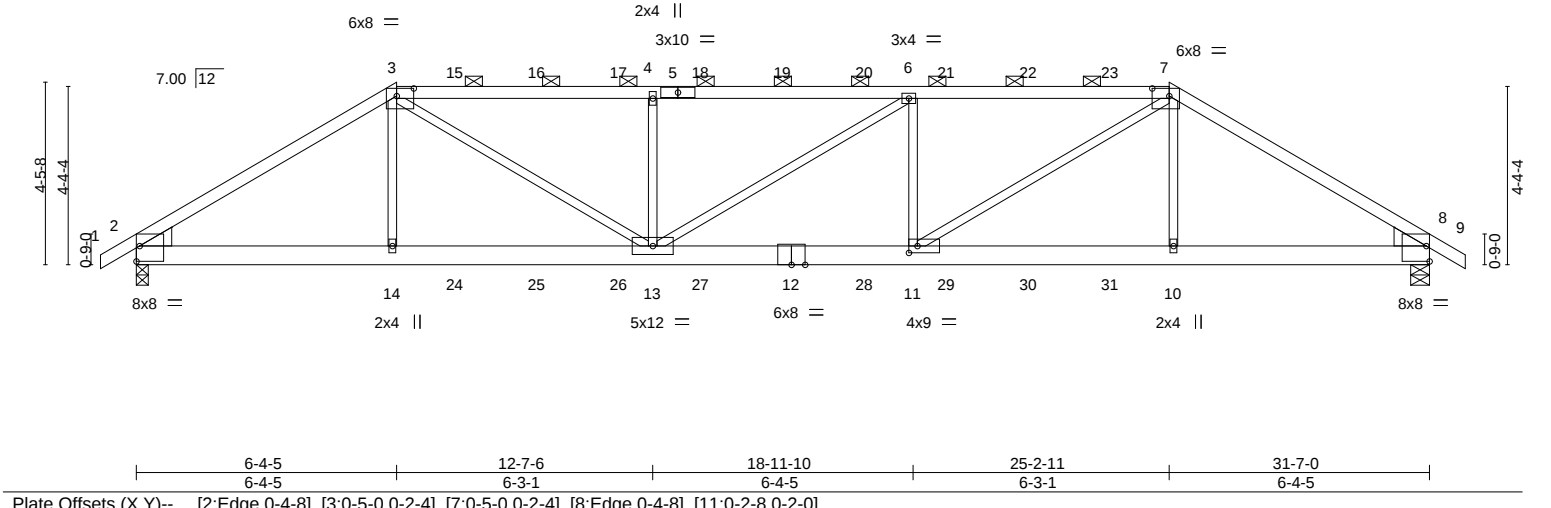
143840405

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

WEB SUBMIT MISSOURI

01/05/2021

Scale = 1:56.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.25 11-13 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.46 11-13 >819				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.12 8 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.20 11-13 >999 240				
								Weight: 130 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
3-5-5-7: 2x4 SPF 2400F 2.0E
BOT CHORD 2x6 SPF 1650F 1.4E
WEBS 2x3 SPF No.2
WEDGE
Left: 2x6 SPF No.2 , Right: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except
2-0-0 oc purlins (2-8-6 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-11-7 oc bracing: 11-13.

REACTIONS.

(size) 2=0-3-8 (req. 0-3-15), 8=0-5-8
Max Horz 2=109(LC 7)
Max Uplift 2=484(LC 8), 8=487(LC 9)
Max Grav 2=2524(LC 1), 8=2537(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4194/815, 3-4=-5055/968, 4-6=-5052/967, 6-7=-5052/966, 7-8=-4170/811
BOT CHORD 2-14=-725/3422, 13-14=-722/3405, 11-13=-947/5050, 10-11=-610/3372, 8-10=-613/3389
WEBS 3-14=-128/664, 3-13=-412/2042, 4-13=-815/342, 6-11=-845/363, 7-11=-418/2076,
7-10=-127/657

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) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=484, 8=487.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 77 lb up at
7-9-7, 125 lb down and 77 lb up at 9-9-7, 125 lb down and 77 lb up at 11-9-7, 125 lb down and 77 lb up at 13-9-7, 125 lb down
and 77 lb up at 15-9-8, 125 lb down and 77 lb up at 17-9-8, 125 lb down and 77 lb up at 19-9-8, and 125 lb down and 77 lb up at
21-9-8, and 125 lb down and 77 lb up at 23-9-8 on top chord, and 429 lb down and 221 lb up at 6-4-5, 60 lb down at 7-9-7, 60 lb
down at 9-9-7, 60 lb down at 11-9-7, 60 lb down at 13-9-7, 60 lb down at 15-9-8, 60 lb down at 17-9-8, 60 lb down at 19-9-8, 60
lb down at 21-9-8, and 60 lb down at 23-9-8, and 429 lb down and 221 lb up at 25-2-11 on bottom chord. The design/selection of
such connection device(s) is the responsibility of others.
11) The design/selection of CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



December 3, 2020

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	G5	Hip Girder	1	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. Web ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-IAugJdfn3hpi49ABBE18jVg7?ve58SK8gGLiLyCxb

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEB'S SUMMIT, MISSOURI
01/05/2021

143840405

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 12=-45(B) 14=-429(B) 10=-429(B) 15=-93(B) 16=-93(B) 17=-93(B) 18=-93(B) 19=-93(B) 20=-93(B) 21=-93(B) 22=-93(B) 23=-93(B) 24=-45(B) 25=-45(B) 26=-45(B) 27=-45(B) 28=-45(B) 29=-45(B) 30=-45(B) 31=-45(B)

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/05/2021
W0 88	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-mMS3tfeHYNgqJEkNkvmGhw2wTPNDqmqTMK?uEnyCxia						

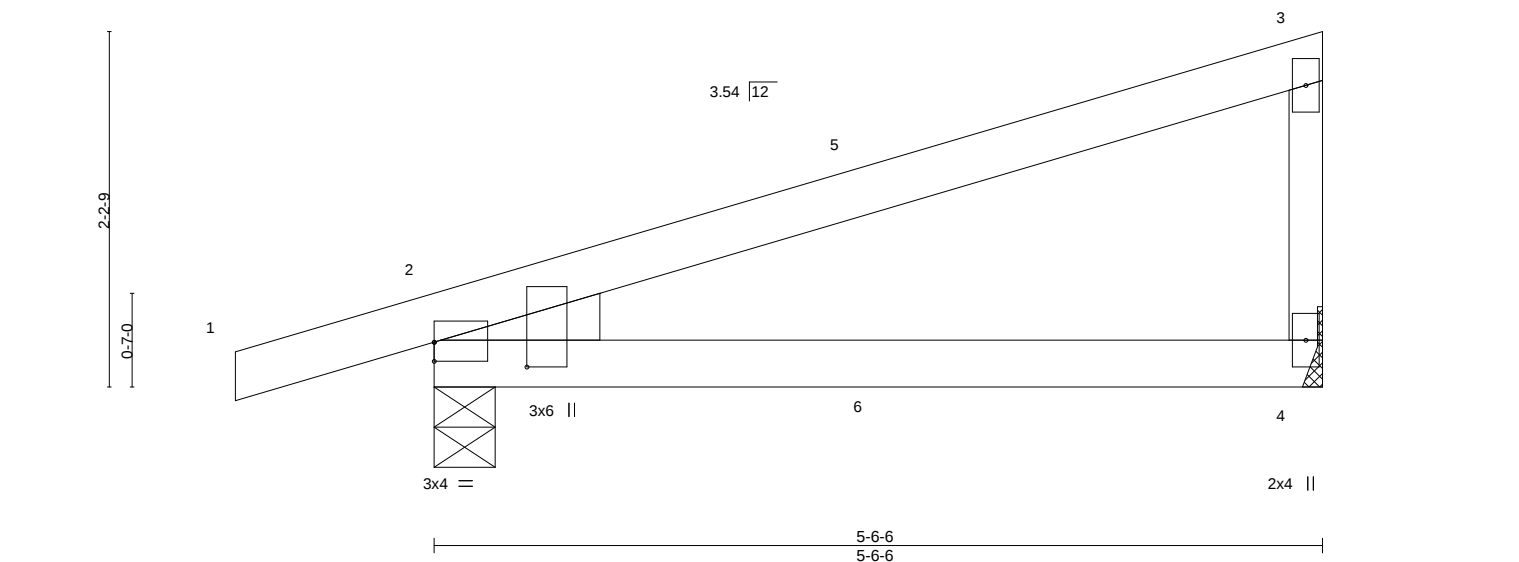


Plate Offsets (X,Y)-- [2:0-0,0,0-1-7], [2:0-1-14,0-6-15]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05 2-4 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.09 2-4 >696	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00 4 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P		Wind(LL)	0.00 2 ****	240	Weight: 17 lb	FT = 10%

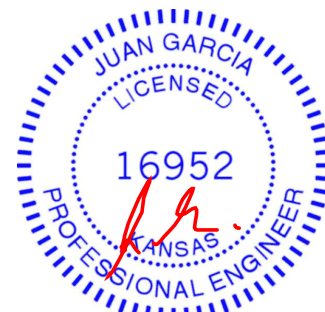
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS.	(size) 4=Mechanical, 2=0-4-9
	Max Horz 2=84(LC 5)
	Max Uplift 4=-47(LC 8), 2=-106(LC 4)
	Max Grav 4=222(LC 1), 2=349(LC 1)

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

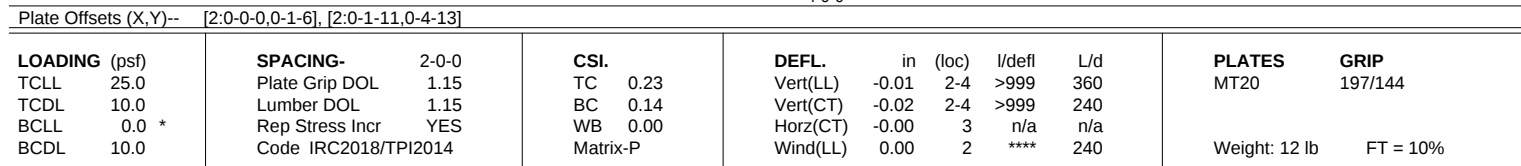
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=106.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 39 lb up at 2-9-8, and 69 lb down and 39 lb up at 2-9-8 on top chord, and 2 lb down at 2-9-8, and 2 lb down at 2-9-8 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, 2-4=-20



December 3, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW**
143840407
LEE'S SUMMIT SERVICES
Cav8, Inc. 1/15/2022 11:45 AM 2/22/2022 Page 1
qqXHSLvCav8?c=NN1e9tiNpfCaxKXJyCxiS
01/05/2021



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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horiz 2=81(LC 8)
 Max Uplift 3=-71(LC 8), 2=-39(LC 8)
 Max Grav 3=123(LC 1), 2=252(LC 1), 4=76(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) 3, 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.



December 3, 2020

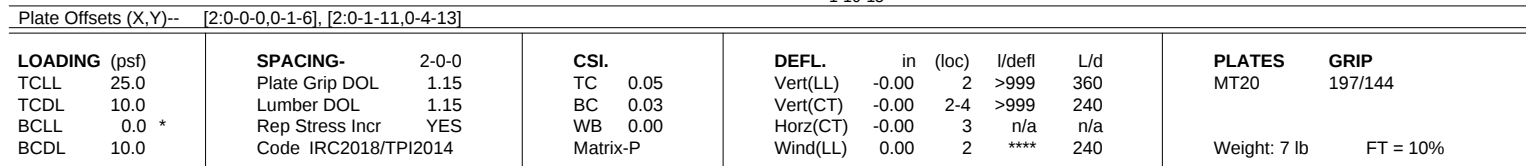


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW** 143840408
LEE'S SUMMIT SERVICES
01/05/2021



REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=47(LC 8)
 Max Uplift 3=-34(LC 8), 2=-31(LC 4)
 Max Grav 3=50(LC 1), 2=163(LC 1), 4=37(LC 3)

NOTES-

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



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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	J4A	Jack-Closed Supported Gable	2	1	

Wheeler Lumber, Waverly, KS - 66871,

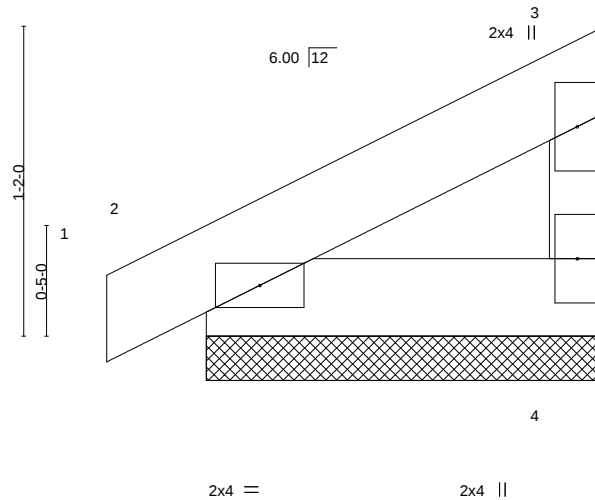
Job Reference (optional)

8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: www.mitek.com

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1-6-0
1-6-0

RELEASE FOR
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DEVELOPMENT SERVICES
WEB SITE: www.mitek.com
MISSOURI
01/05/2021

Scale = 1:8.7



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 0.03	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								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 1-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-6-0, 2=1-6-0
Max Horz 2=35(LC 5)
Max Uplift 4=-15(LC 8), 2=-17(LC 8)
Max Grav 4=59(LC 1), 2=93(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 4, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
W0 88	J5A	Jack-Closed	2	1	

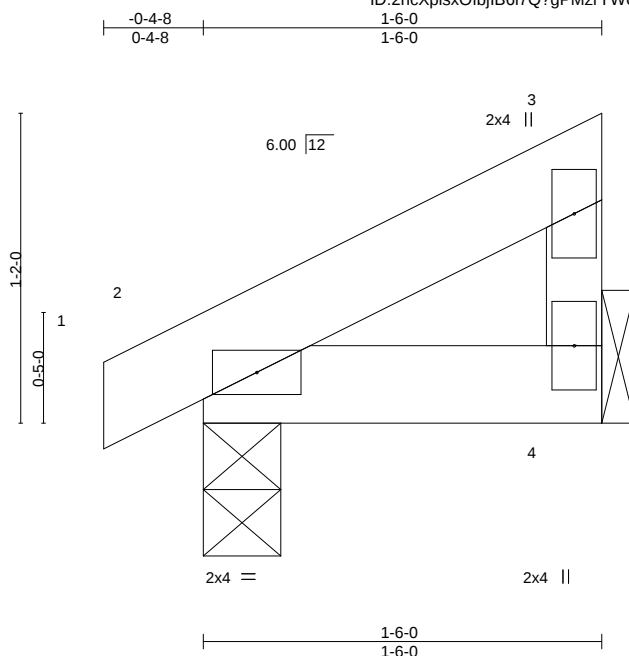
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: www.mitek.com

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CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEB SITE: www.mitek.com
01/05/2021

Scale = 1:8.7



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 0.02	Vert(LL)	-0.00	2	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	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-

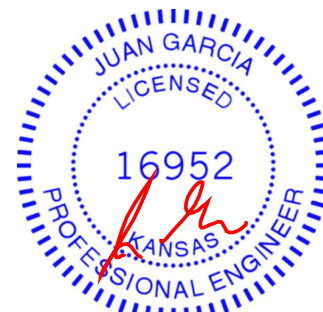
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=35(LC 5)
 Max Uplift 4=-15(LC 8), 2=-17(LC 8)
 Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

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



December 3, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION**

AS NOTED ON PLANS REVIEW

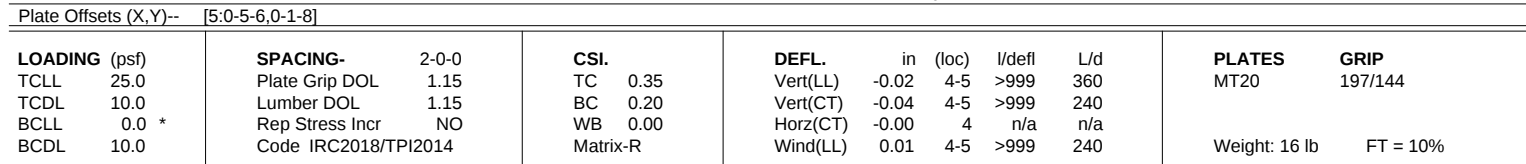
143840411

DEVELOPMENT SERVICES

LEE'S SUMMIT MISSOURI

7rKnrPEhySgG2OKij9Stxa?oq2ptlpsyCxik

01/05/2021



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) 5=0-6-5, 4=Mechanical
Max Horz 5=96(LC 5)
Max Uplift 5=-148(LC 4), 4=-63(LC 5)
Max Grav 5=395(LC 1), 4=222(LC 1)

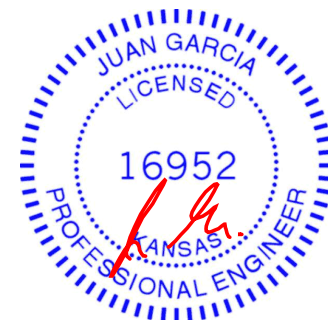
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-351/175

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=148.
- 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) 64 lb down and 21 lb up at 2-8-8, and 105 lb down and 83 lb up at 4-1-0 on top chord, and 7 lb down and 10 lb up at 2-8-8, and 30 lb down at 4-1-0 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=-43(F) 8=5(B) 9=-15(F)



December 3, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
W0 88	J9	Jack-Open	1	1	

Wheeler Lumber,	Waverly, KS - 66871,	8.430 s Nov 30 2020 MiTek Industries, Inc.	Job Reference (optional)
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RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

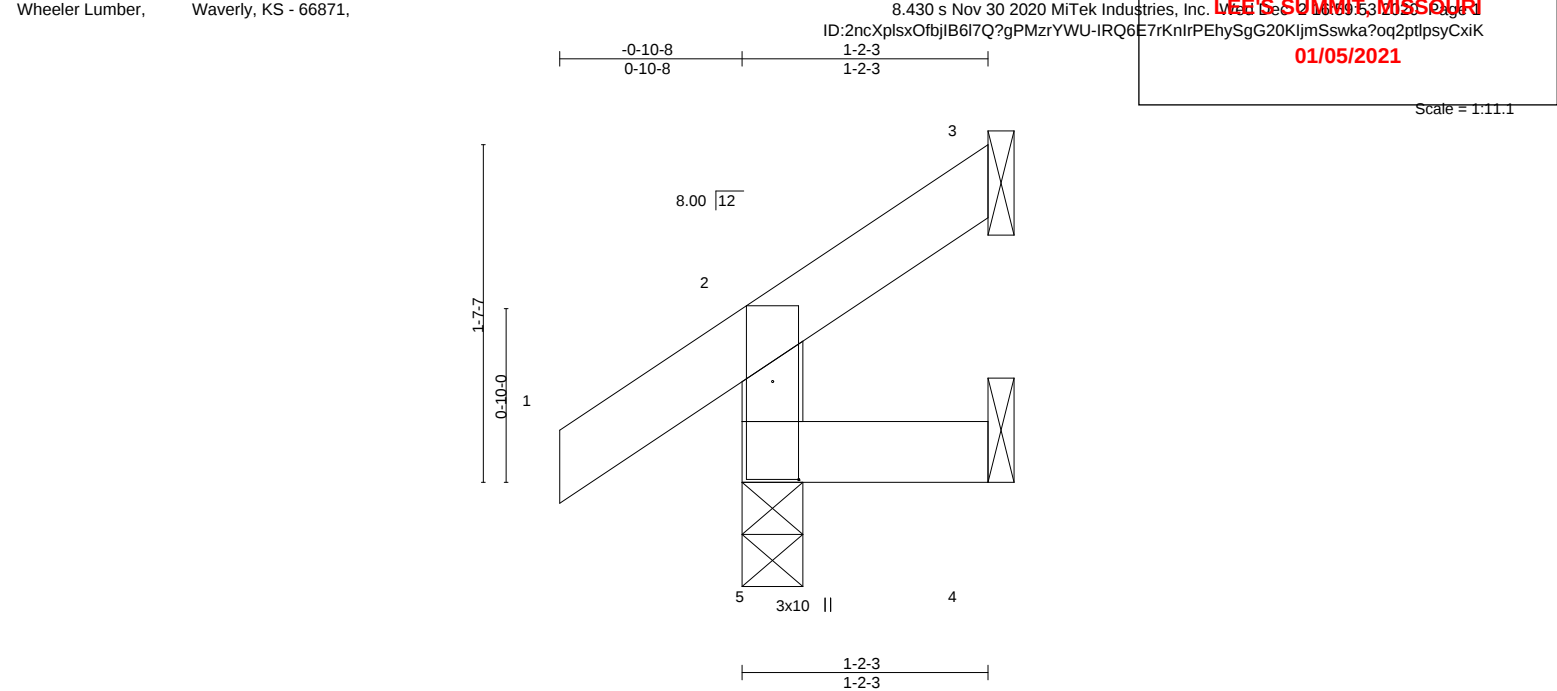
DEVELOPMENT SERVICES

WEB SUMMIT, MISSOURI

01/05/2021

143840412

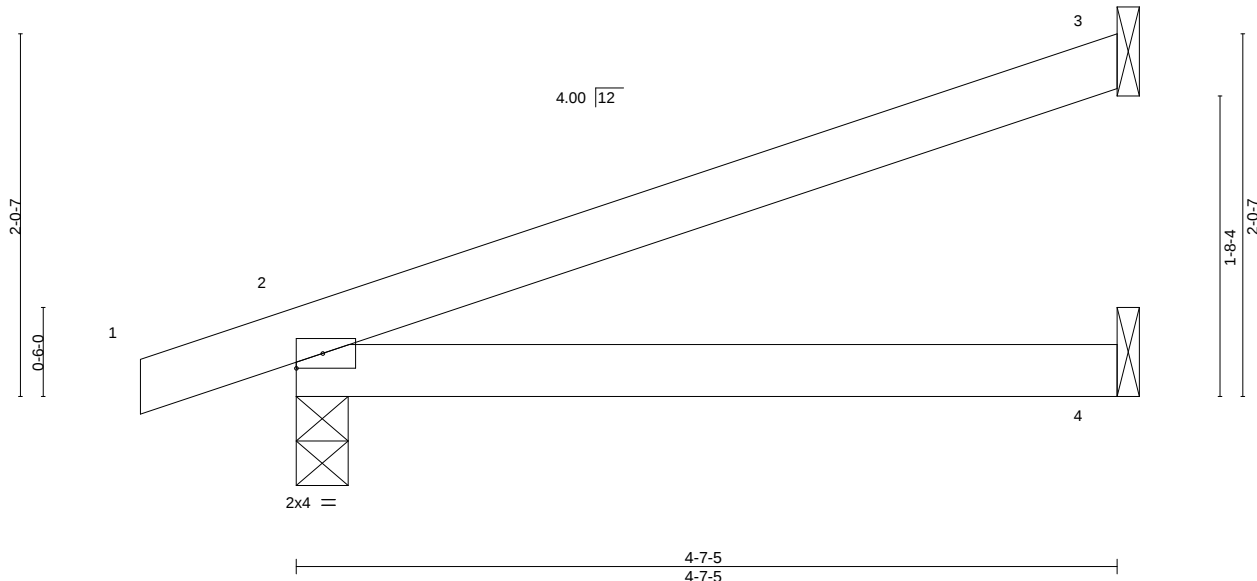
143840412



Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021
W0 88	J10	Jack-Open	1	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjIB6i7Q?gPMzrYWU-EY0R4?fvJhyXxOJZlcHVD8b8GplOZC4db_ISnDyCxiZ

Scale = 1:12.9



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 0.33	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 10%

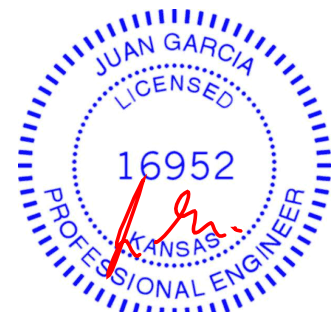
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=75(LC 4)
 Max Uplift 3=-74(LC 8), 2=-72(LC 4)
 Max Grav 3=146(LC 1), 2=278(LC 1), 4=88(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) 3, 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.



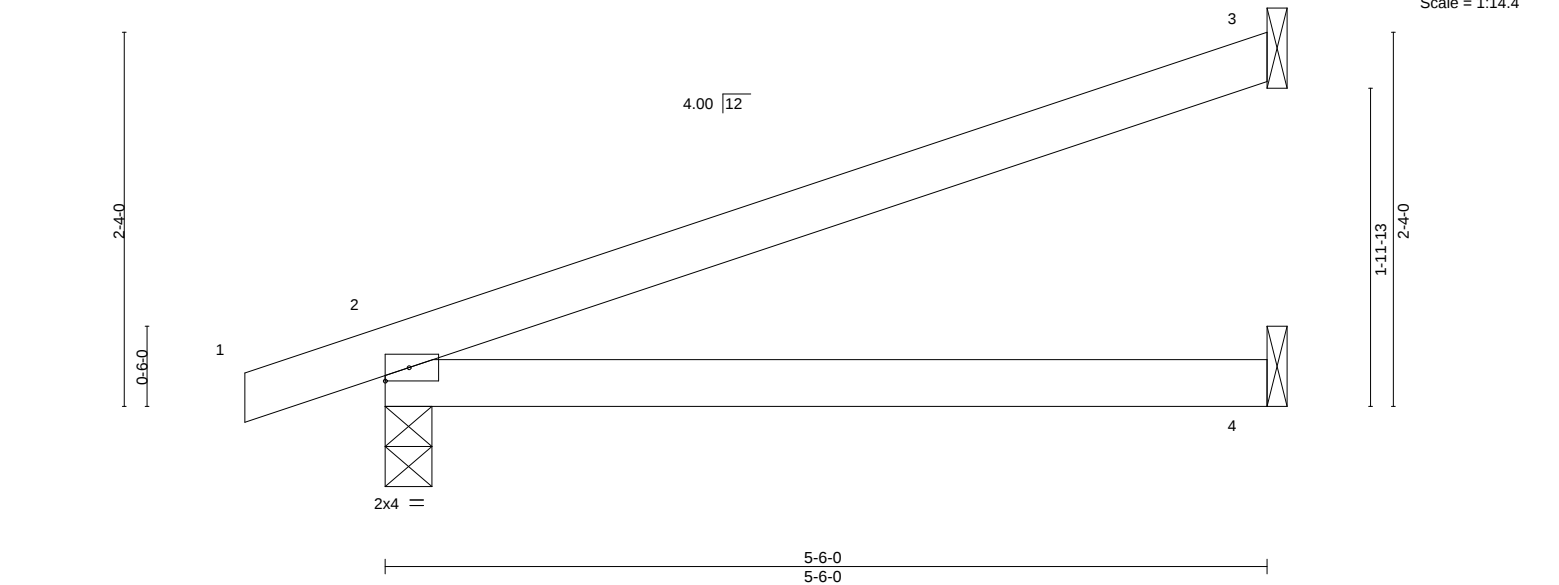
December 3, 2020

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

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021 Scale = 1:14.4
W0 88	J11	Jack-Open	3	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID: 2ncXplsxOfbjIB617Q?gPMzrYWU-EY0R4?fvJhyXxOJZicHVD8b6VpktZC4db_ISnDyCxiZ



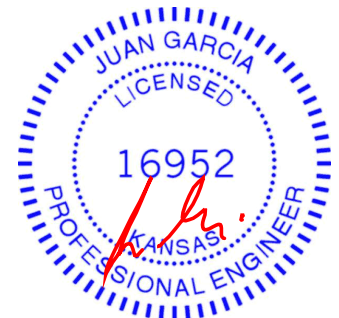
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.05	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.09	2-4	>675	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 14 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=87(LC 4)
 Max Uplift 3=90(LC 8), 2=-76(LC 4)
 Max Grav 3=178(LC 1), 2=316(LC 1), 4=106(LC 3)

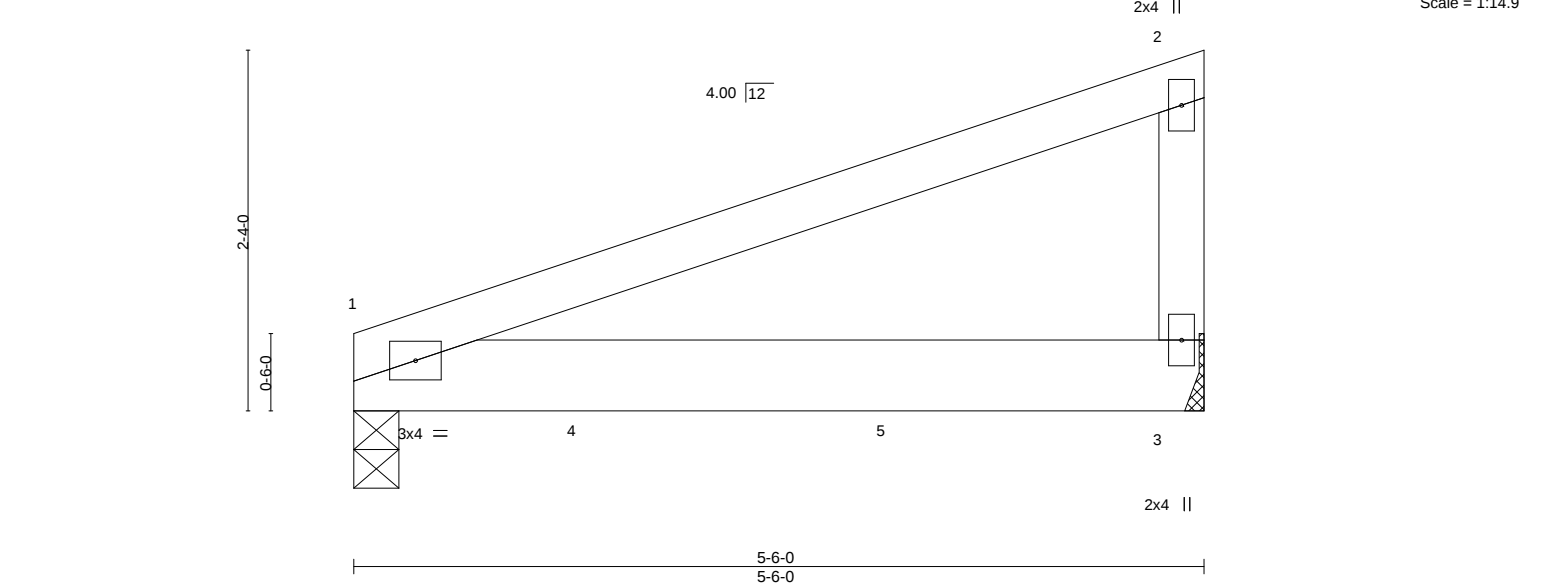
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) 3, 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021
W0 88	J12	Jack-Closed Girder	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,		8.430 s Nov 30 2020 MiTek Industries, Inc. 40ZXulskokmL7FhDyelfkmqeU?JgyCxiY				



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)	-0.10	1-3	>616	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.19	1-3	>334	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-P	Wind(LL)	0.07	1-3	>901	240		
									Weight: 21 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-1-2 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 1=0-3-8, 3=Mechanical
	Max Horz 1=85(LC 5)
	Max Uplift 1=-157(LC 4), 3=-155(LC 8)
	Max Grav 1=1162(LC 1), 3=1037(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 3=155.
 - 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) 865 lb down and 120 lb up at 1-6-12, and 865 lb down and 120 lb up at 3-6-12 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, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-865(F) 5=-865(F)



December 3, 2020

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

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021
W0 88	J13	Diagonal Hip Girder	1	1		
Job Reference (optional)						
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Lvs 6 of 6 11/30/2020 14:02:55 PM ID:2ncXplsOfbjIB6I7Q?gPMzrYWU-Ax8BVhArlCFaHtyQ1JzJZgQVdKU16aw2IEZr6yCxiX						
		-1-3-15	3-4-1	8-1-6		
		1-3-15	3-4-1	4-9-5		
					2x6	Scale = 1" = 6'-8"

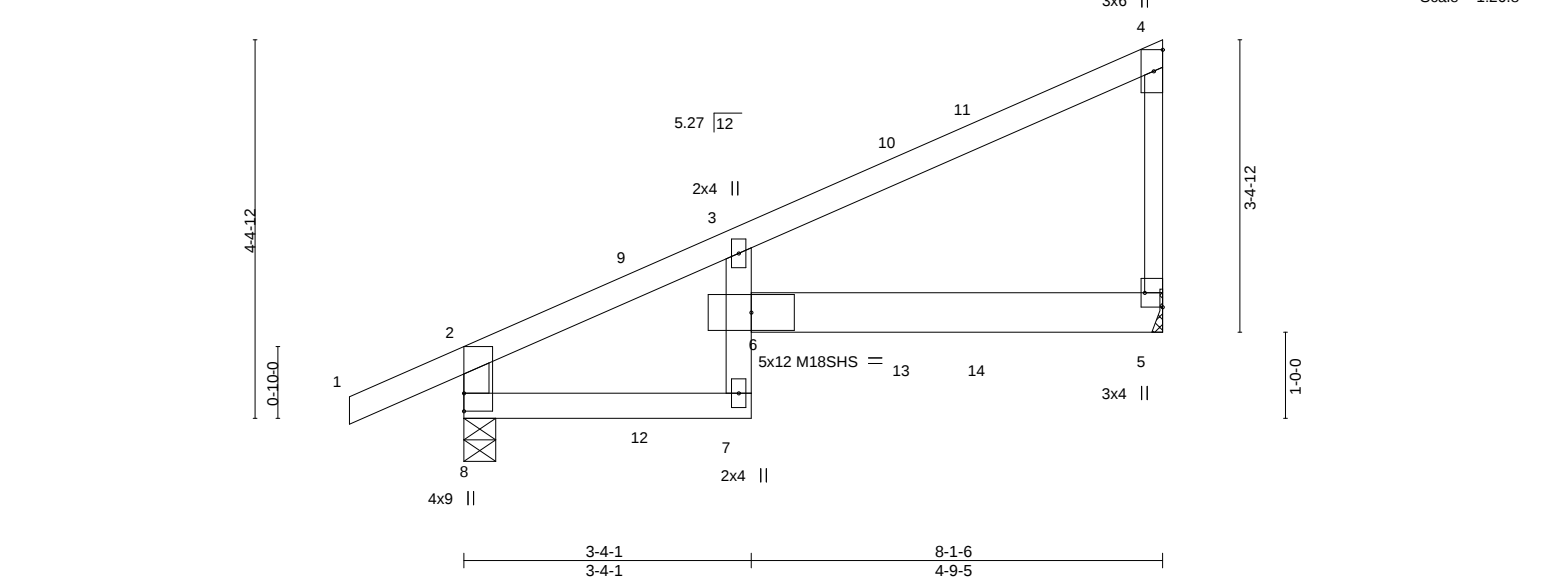


Plate Offsets (X,Y)--		[5:Edge,0-2-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.13	6	>702	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.24	5-6	>396	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.08	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.17	5-6	>562	Weight: 29 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 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
5-6: 2x6 SPF No.2	
WEBS 2x4 SPF No.2 *Except*	
4-5: 2x3 SPF No.2	

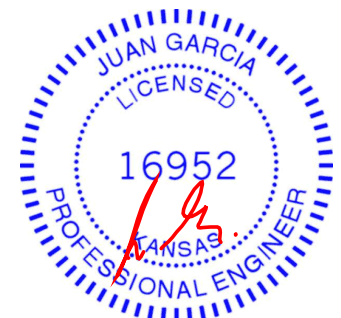
REACTIONS.	(size) 8=0-4-7, 5=Mechanical
	Max Horz 8=167(LC 5)
	Max Uplift 8=-118(LC 8), 5=-163(LC 5)
	Max Grav 8=488(LC 1), 5=398(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-8=-440/137, 2-3=-489/113
BOT CHORD	7-8=-169/334

- 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8=118, 5=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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 35 lb up at 2-1-10, 79 lb down and 50 lb up at 3-4-11, and 109 lb down and 65 lb up at 5-2-1, and 104 lb down and 66 lb up at 6-0-9 on top chord, and 6 lb down and 2 lb up at 2-1-10, 9 lb down and 12 lb up at 3-2-5, and 32 lb down and 36 lb up at 5-2-1, and 37 lb down and 43 lb up at 6-0-9 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, 2-4=-70, 7-8=-20, 5-6=-20

Continued on page 2



December 3, 2020

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0
W0 88	J13	Diagonal Hip Girder	1	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-Ax8BVhhArICFAhTyQ1JzJZgQVdKU16aw2lEZr6yCxiX

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEBB SUMMIT, MISSOURI
01/05/2021

143840416

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=0(F) 10=-7(B) 11=-10(F) 12=2(B) 13=-28(B) 14=-33(F)



Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT, MISSOURI 01/05/2021
W0 88	J14	Diagonal Hip Girder	2	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Web Release 11/05/2020 Page 1						
ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-e7iZj1hocK5or28zlqCrmDhCOpEmWk3HyZ6OYyCxiW						

-1-3-15

1-3-15

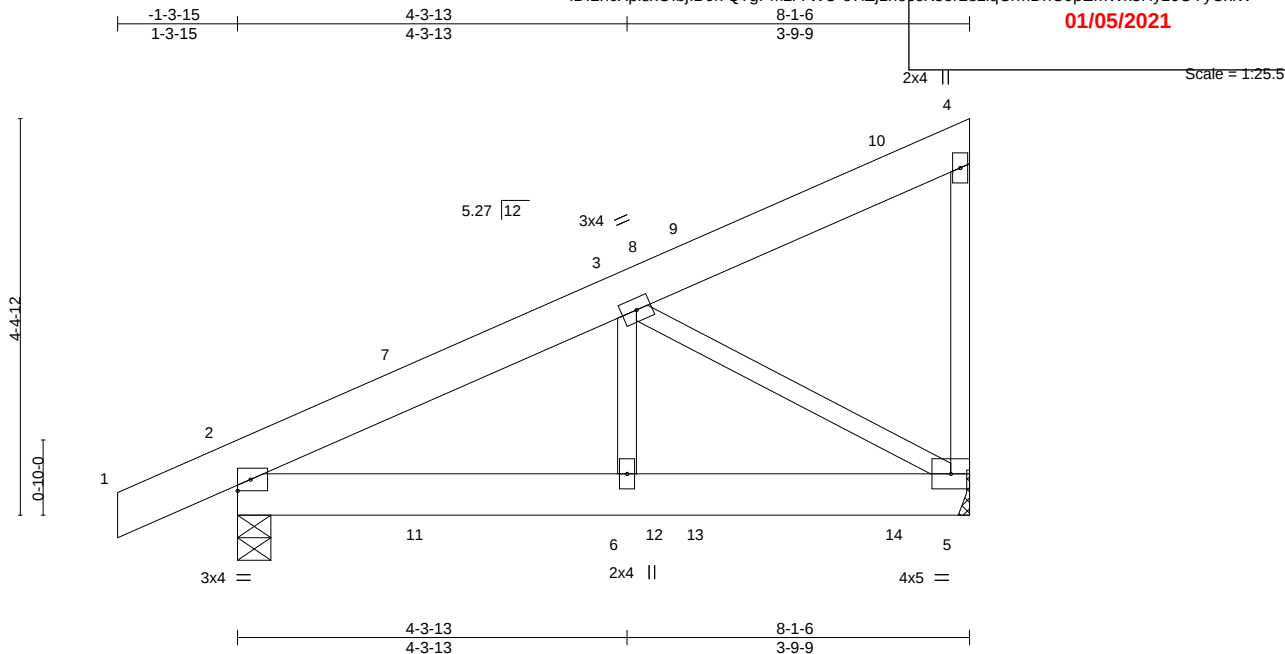
4-3-13

4-3-13

8-1-6

3-9-9

Scale = 1/25.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.00	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.01	6	>999	240	Weight: 41 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2
 BOT CHORD 2x6 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=Mechanical, 2=0-4-7
 Max Horz 2=172(LC 5)
 Max Uplift 5=-190(LC 5), 2=-117(LC 8)
 Max Grav 5=459(LC 1), 2=483(LC 1)

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

TOP CHORD 2-3=-582/112
 BOT CHORD 2-6=-166/402, 5-6=-166/402
 WEBS 3-5=-454/191

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) except (jt=lb) 5=190, 2=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) 73 lb down and 27 lb up at 2-0-12, 81 lb down and 35 lb up at 2-1-10, 96 lb down and 72 lb up at 4-8-10, and 115 lb down and 83 lb up at 5-2-1, and 127 lb down and 129 lb up at 7-4-8 on top chord, and 7 lb down and 9 lb up at 2-0-12, 6 lb down and 2 lb up at 2-1-10, 19 lb down at 4-8-10, and 26 lb down at 5-2-1, and 53 lb down at 7-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-70, 2-5=-20
 Concentrated Loads (lb)
 Vert: 9=-9(F) 10=-84(B) 11=6(F=2, B=4) 12=-4(B) 13=-14(F) 14=-26(B)



December 3, 2020

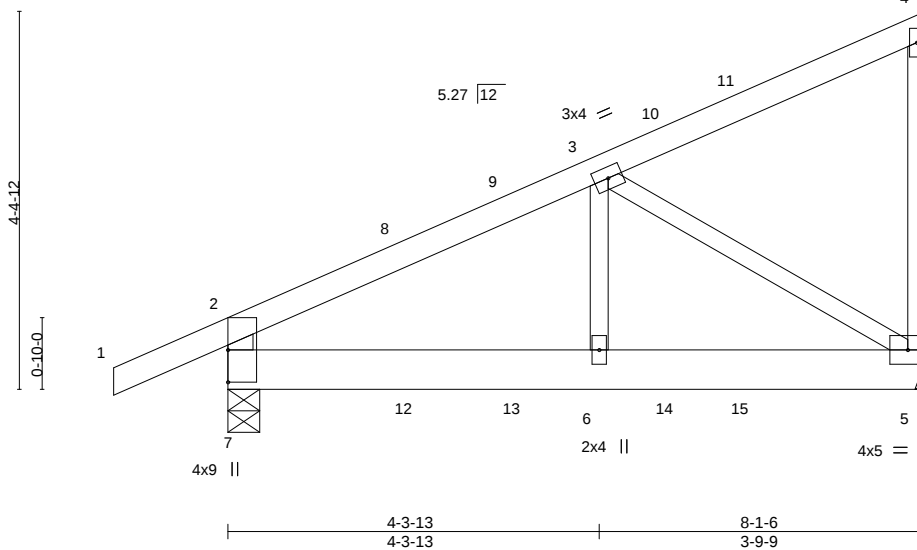
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT MISSOURI 01/05/2021
W0 88	J14A	Diagonal Hip Girder	1	1		143840418
Wheeler Lumber, Waverly, KS - 66871,						Job Reference (optional)
8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: www.mitek.com						Web Site: www.mitek.com
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6JFywnQNVsYQ?dKXSLRO_lrsQ7yV_CDWcJfw?yCxiV						
-1-3-15 4-3-13 8-1-6 1-3-15 4-3-13 3-9-9						Scale = 1:26.8



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 0.29	Vert(LL)	-0.01	6	>999	360	MT20
BCLL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	6	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.18	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	6	>999	240	
									Weight: 35 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=0-4-7, 5=Mechanical
 Max Horz 7=182(LC 22)
 Max Uplift 7=-109(LC 8), 5=-138(LC 5)
 Max Grav 7=483(LC 1), 5=387(LC 1)

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

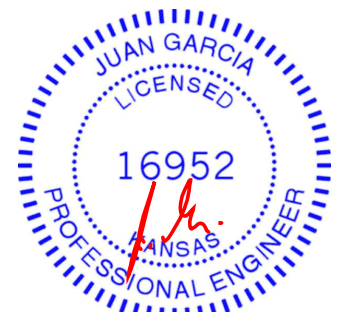
TOP CHORD 2-7=-409/123, 2-3=-500/101
 BOT CHORD 6-7=-164/357, 5-6=-164/357
 WEBS 3-5=-399/173

NOTES-

- 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
- 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) 7=109, 5=138.
- This truss 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) 81 lb down and 35 lb up at 2-1-10, 79 lb down and 50 lb up at 3-4-11, and 115 lb down and 83 lb up at 5-2-1, and 112 lb down and 87 lb up at 6-0-9 on top chord, and 6 lb down and 2 lb up at 2-1-10, 9 lb down and 12 lb up at 3-4-11, and 26 lb down at 5-2-1, and 29 lb down at 6-0-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-4=-70, 5-7=-20
 Concentrated Loads (lb)
 Vert: 10=-9(F) 11=-21(B) 12=2(F) 13=0(B) 14=-14(F) 15=-17(B)



December 3, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job

W0 88

Truss

J15

Truss Type

Jack-Open

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-bWpK7jj28Dap19BX59tgwBI?kqRqETJMIGSDSRyCxiU

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

143840419

WEB SUMMIT MISSOURI

01/05/2021

Scale = 1:26.3

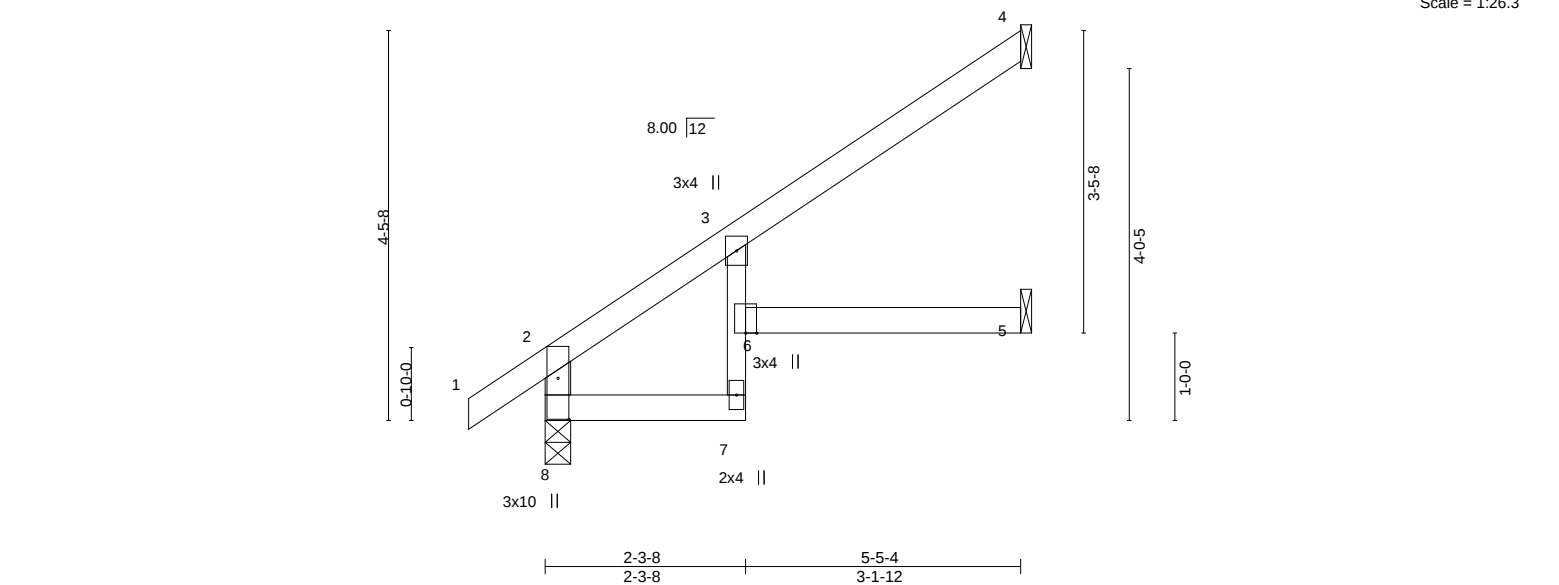


Plate Offsets (X,Y)--		[8:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.34	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(LL) -0.06 6 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.10 5-6 >620 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.05 5 n/a n/a
			Wind(LL) 0.08 6 >758 240
			Weight: 17 lb FT = 10%

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

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=157(LC 8)
 Max Uplift 8=-5(LC 8), 4=-94(LC 8), 5=-12(LC 8)
 Max Grav 8=314(LC 1), 4=162(LC 15), 5=89(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-294/42

- 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
W0 88	J16	Jack-Open	17	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: 13840420

ID: 2ncXplsXOfbjlB6l7Q?gPMzrYWU-bWpK7jj2Bdap19BX59tgwBI_RqRbETJMGSDSRyCxiU

Job Reference (optional)

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SITE: 13840420

01/05/2021

Scale = 1:26.3

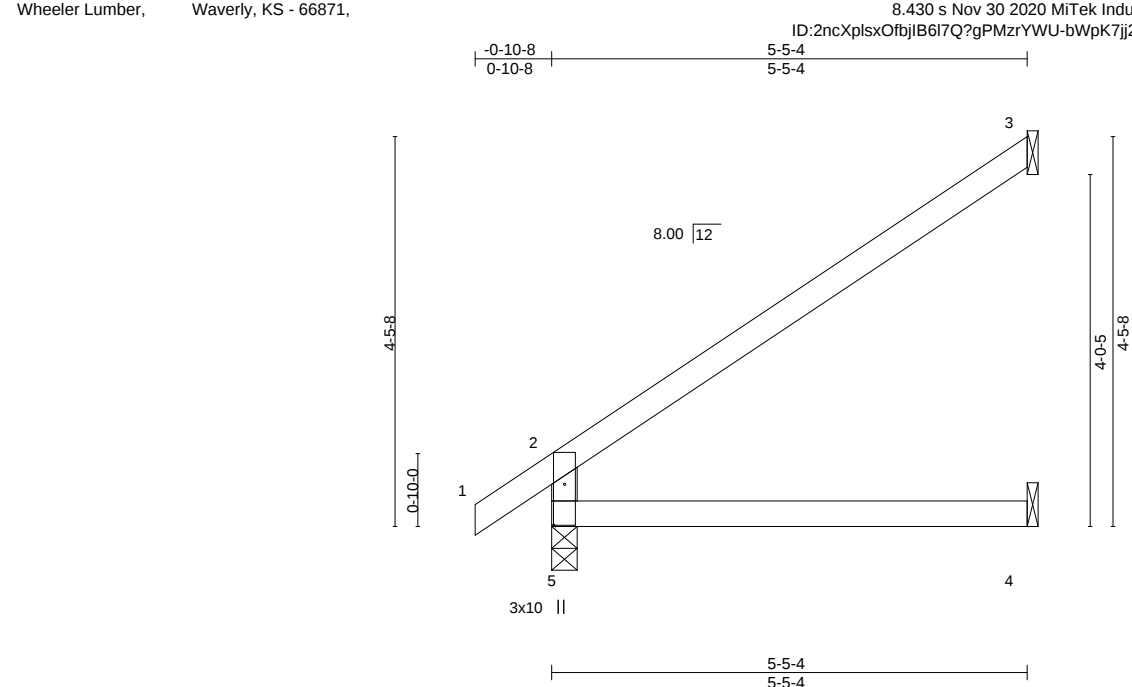


Plate Offsets (X,Y)--		[5:0-5-10,0-1-8]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03 4-5 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08 4-5 >791	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04 3 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.04 4-5 >999	240	Weight: 16 lb	FT = 10%

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

REACTIONS.	(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
	Max Horz 5=110(LC 8)
	Max Uplift 3=69(LC 8)
	Max Grav 5=314(LC 1), 3=168(LC 13), 4=100(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-5=-275/28

- 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) 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.



December 3,2020

Job

W0 88

Truss

J17

Truss Type

Jack-Open

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-3iNlL2kgvXigfJmftOvTPrDrEplZwZVzwCm_tyCxIT

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SUMMIT MISSOURI

01/05/2021

Scale = 1:20.2

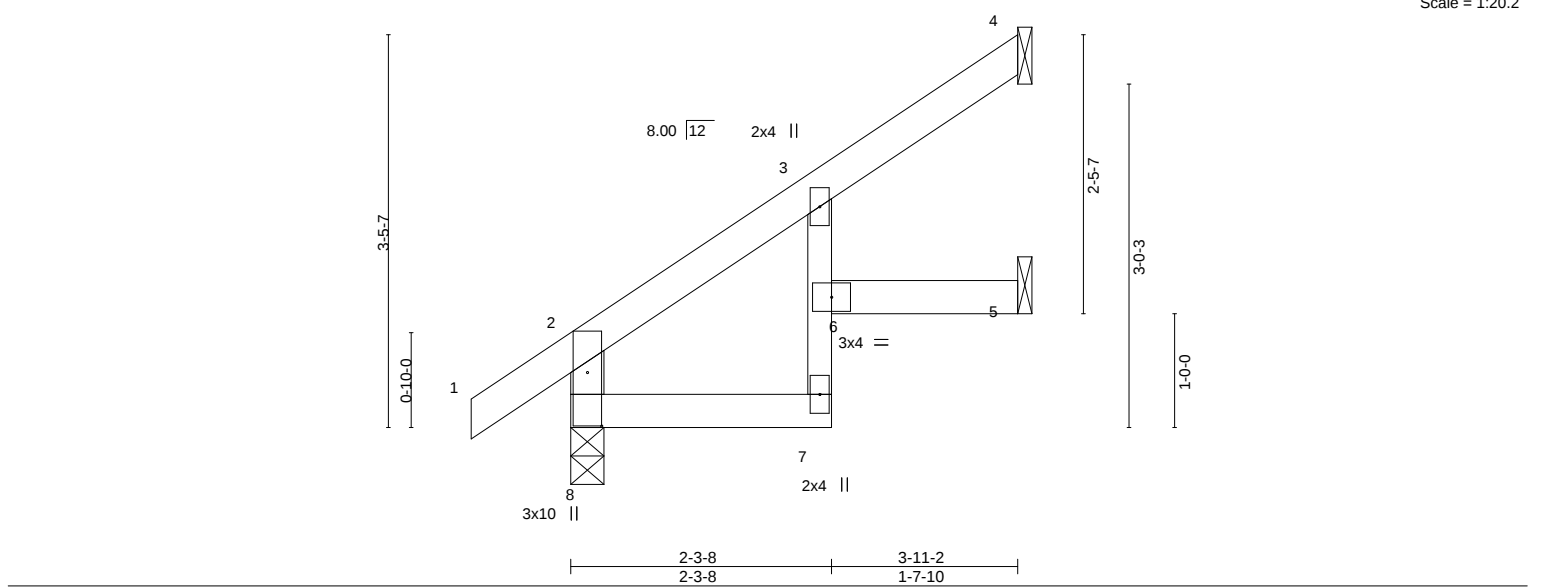


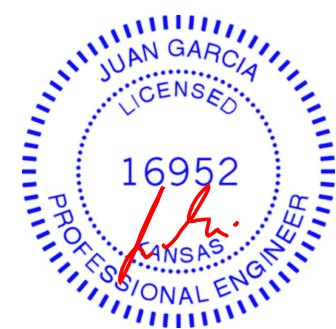
Plate Offsets (X,Y)--		[8:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13
TCDL 10.0	Lumber DOL	1.15	BC 0.16
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 6 >999 360
			Vert(CT) -0.02 7 >999 240
			Horz(CT) -0.01 5 n/a n/a
			Wind(LL) 0.02 6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 13 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
3-7: 2x3 SPF No.2	
WEBS 2x4 SPF No.2	

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=116(LC 8)
 Max Uplift 8=-7(LC 8), 4=-58(LC 8), 5=-22(LC 8)
 Max Grav 8=249(LC 1), 4=105(LC 15), 5=66(LC 15)

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

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



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
W0 88	J18	Jack-Open	2	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: www.mitek.com

ID:2ncXplsxOfbjIB617Q?gPMzrYWU-3iNiL2kgvXigfJmjftOvTPrEkErlzwZVzwCm_tyCxIT

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEB SITE: www.mitek.com

01/05/2021

Scale = 1:14.4

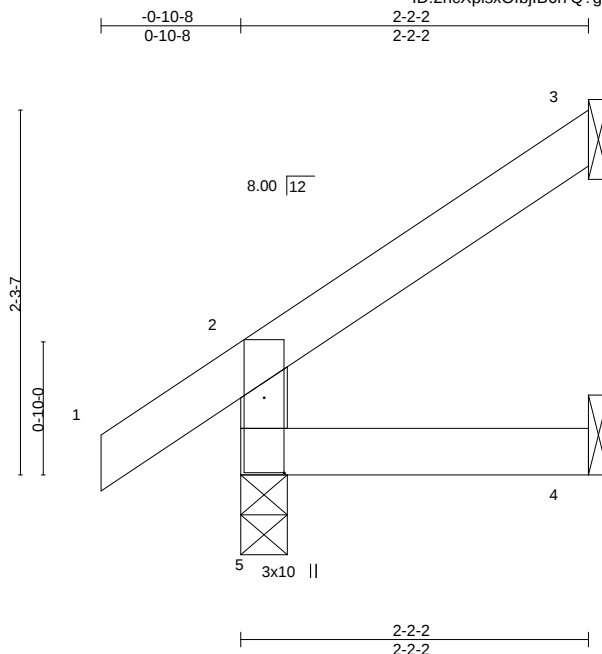


Plate Offsets (X,Y)-- [5:0-5-10,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	Weight: 7 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-2 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=69(LC 8)
Max Uplift 5=-10(LC 8), 3=-45(LC 8), 4=-2(LC 8)
Max Grav 5=179(LC 1), 3=60(LC 15), 4=36(LC 3)

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

NOTES-

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



December 3, 2020

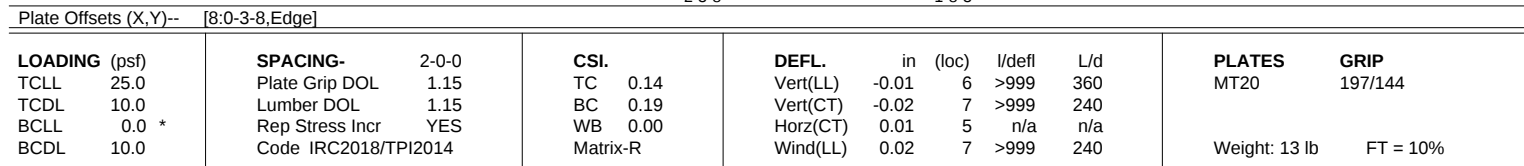
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW** 143840423
LEE'S SUMMIT SERVICES
Cav8?cNOUE9CInPrCaxKXJyCxiS
01/05/2021



REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=103(LC 8)
 Max Uplift 8=-19(LC 8), 4=-52(LC 8), 5=-15(LC 8)
 Max Grav 8=251(LC 1), 4=106(LC 15), 5=64(LC 15)

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.

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



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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES MISSOURI 01/05/2021
W0 88	J20	Jack-Open	4	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-?5VSmkxQByOvcw5mIQNYqwaE1X4Rq3oREht3myCxiR

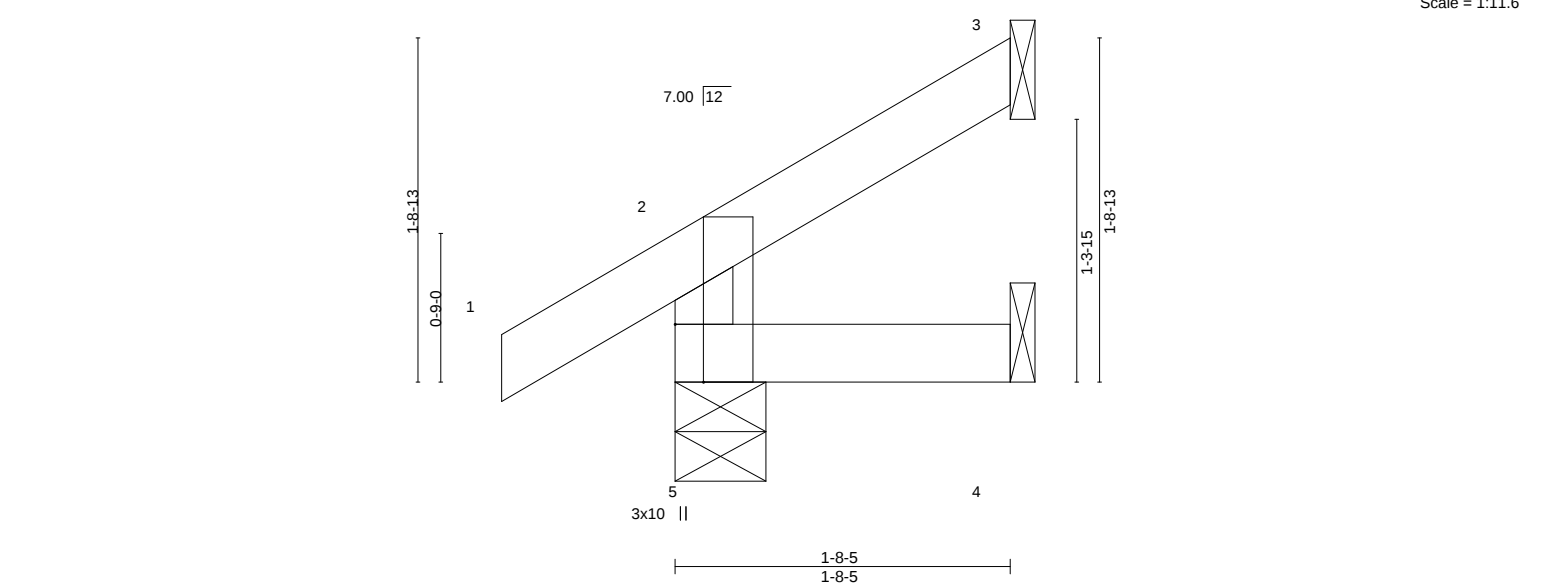


Plate Offsets (X,Y)--		[5:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 5 >999 360
			Vert(CT) -0.00 5 >999 240
			Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.00 5 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 6 lb FT = 10%

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=50(LC 8)
Max Uplift 5=-19(LC 8), 3=-30(LC 8)
Max Grav 5=164(LC 1), 3=40(LC 15), 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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT, MISSOURI 01/05/2021
W0 88	J21	Jack-Open	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Web Summit, Missouri

ID:2ncXplsXOfbJlB6I7Q?gPMzrYWU-75VSmkixQ8yOvcw5mIQNYqwYH1WQRq3oREht3myCxiR

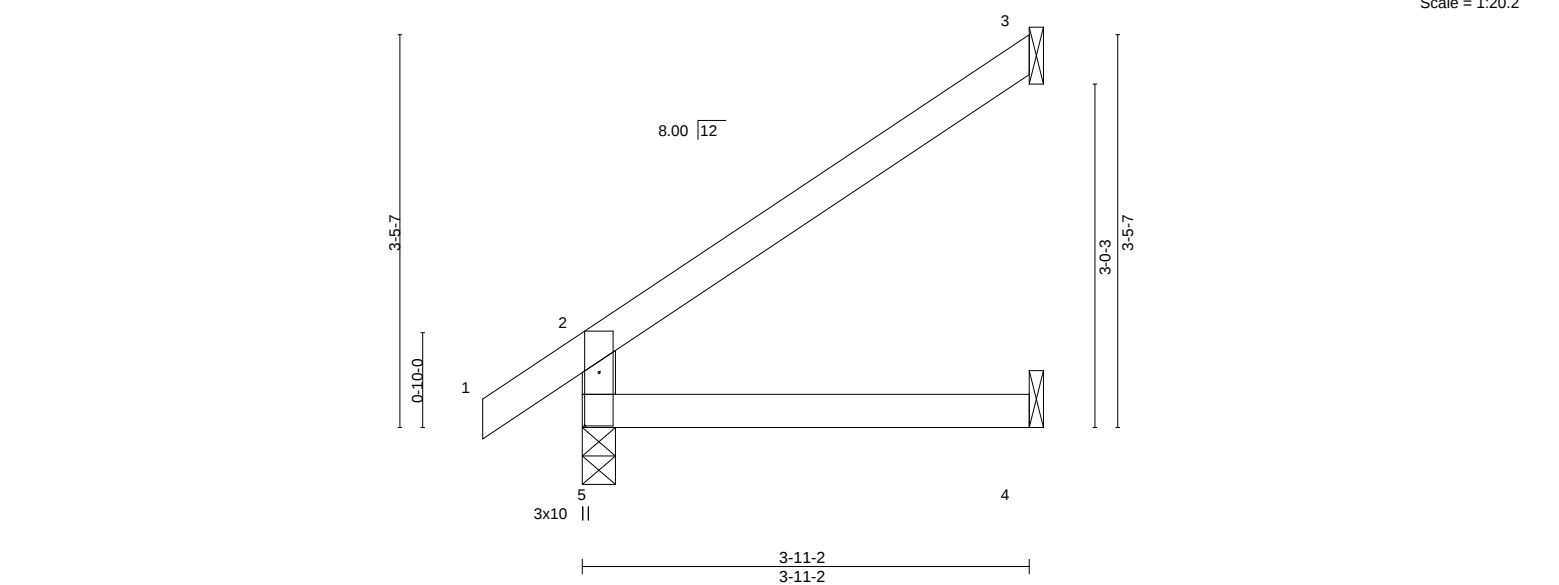


Plate Offsets (X,Y)--		[5:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20
TCDL 10.0	Lumber DOL	1.15	BC 0.12
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 4-5 >999 360
			Vert(CT) -0.02 4-5 >999 240
			Horz(CT) -0.02 3 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 12 lb FT = 10%

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=116(LC 8)
Max Uplift 5=-7(LC 8), 3=-82(LC 8)
Max Grav 5=249(LC 1), 3=122(LC 15), 4=70(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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUMMIT, MISSOURI 01/05/2021
W0 88	J22	Jack-Open	3	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfBjI6617Q?gPMzrYWU-TH3rz4mZBS4FWmVik?xc51TjyRsdAHJyfuQQbCyCxiQ

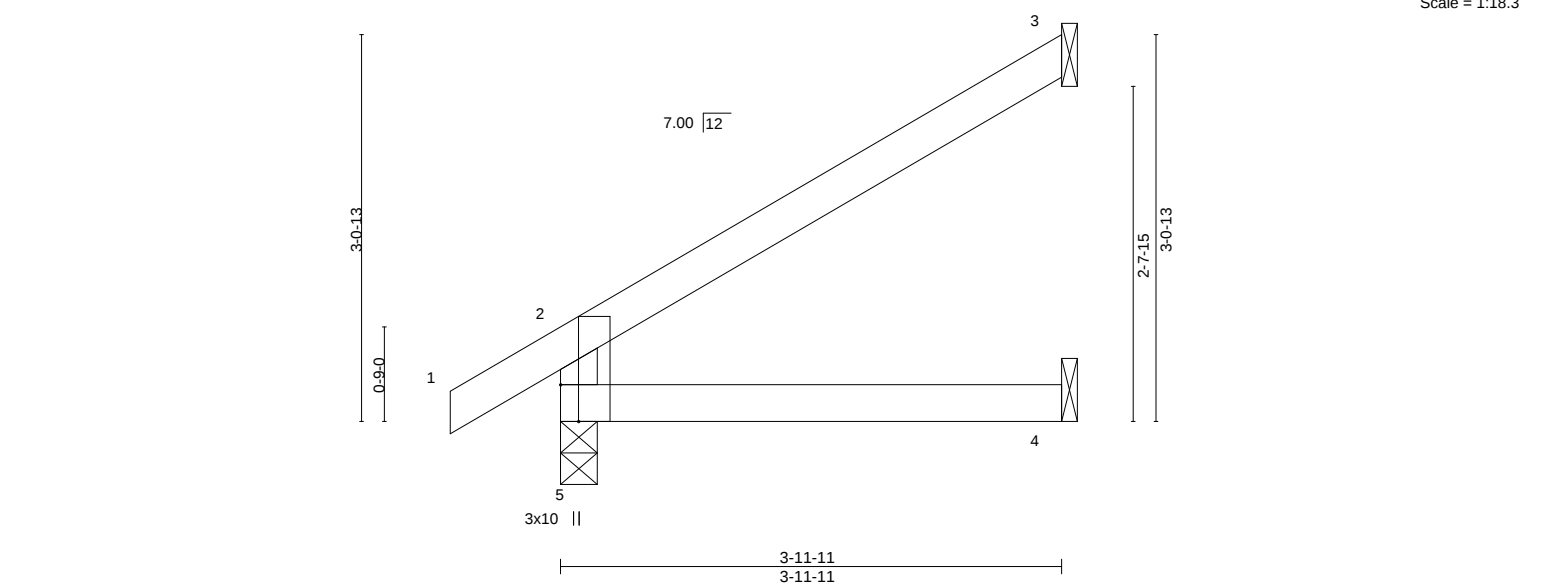


Plate Offsets (X,Y)--		[5:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20
TCDL 10.0	Lumber DOL	1.15	BC 0.13
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 4-5 >999 360
			Vert(CT) -0.02 4-5 >999 240
			Horz(CT) -0.01 3 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 11 lb FT = 10%

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=103(LC 8)
Max Uplift 5=-19(LC 8), 3=-73(LC 8)
Max Grav 5=251(LC 1), 3=122(LC 15), 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.



December 3,2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW**

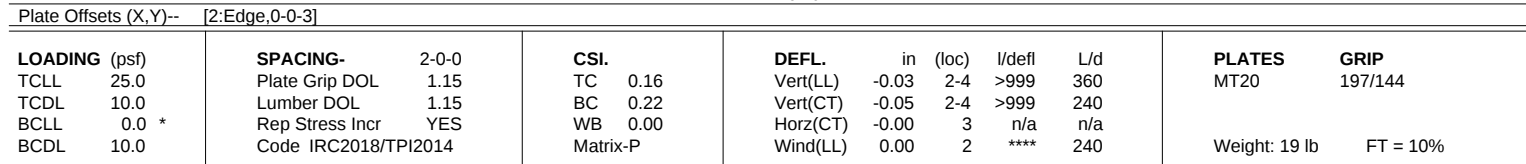
143840427

**DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Inc., Ltd. 143840427

C68w4UujSrdF?vK9QvKZ5uYA_7eyCxIP

01/05/2021



REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=152(LC 8)
 Max Uplift 3=-120(LC 8), 2=-8(LC 8)
 Max Grav 3=165(LC 15), 2=286(LC 1), 4=92(LC 3)

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) 2 except (jt=lb) 3=120.
- 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.



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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SUBMIT TO MISSOURI 01/05/2021
W0 88	J24	Jack-Open	2	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-PgBbOmopj3Kzm4fgRQz4ASY5_FX?eBpE7BvXg5yCxiO

Scale = 1:17.4

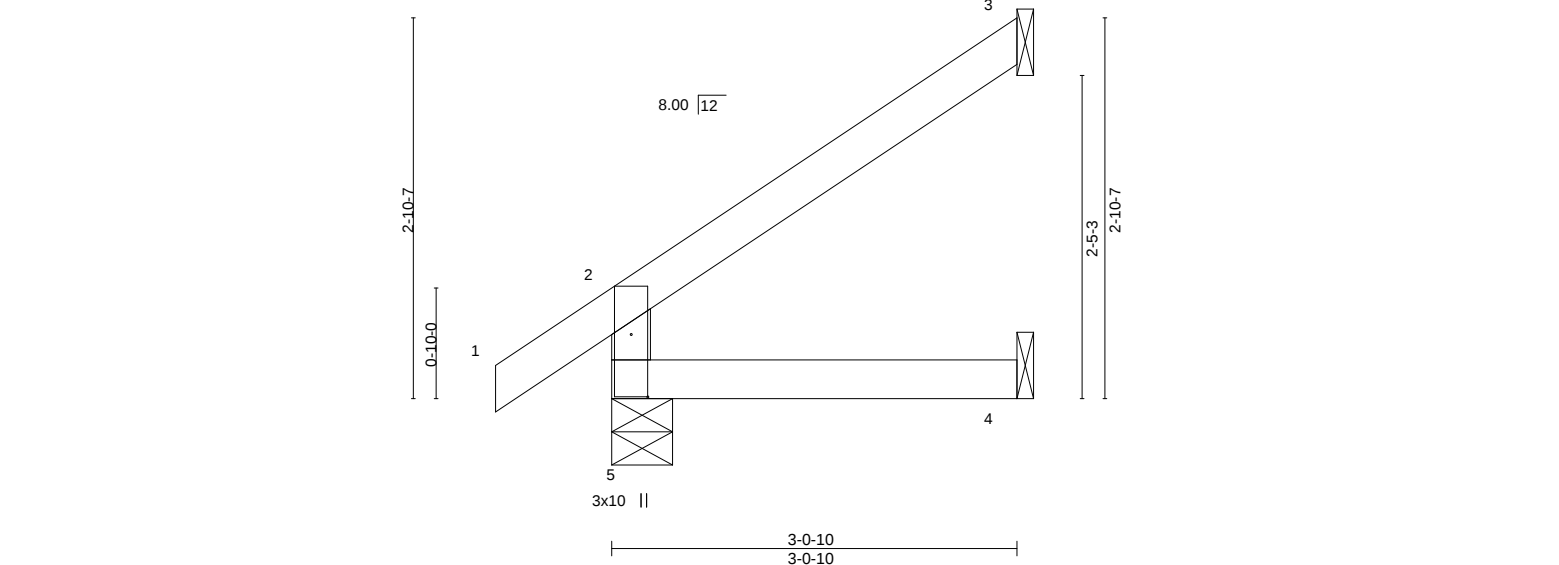


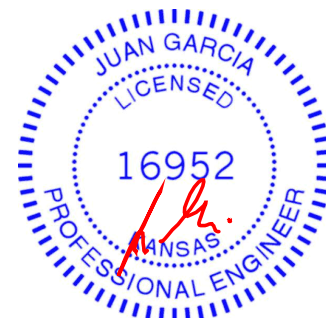
Plate Offsets (X,Y)--		[5:0-5-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10
TCDL 10.0	Lumber DOL	1.15	BC 0.07
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 4-5 >999 360
			Vert(CT) -0.01 4-5 >999 240
			Horz(CT) -0.01 3 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 10 lb FT = 10%

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=93(LC 8)
Max Uplift 5=-8(LC 8), 3=-64(LC 8)
Max Grav 5=212(LC 1), 3=92(LC 15), 4=53(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.



December 3,2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
W0 88	J25	Jack-Open	2	1	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
WEBB COUNTY, MISSOURI
01/05/2021

Scale = 1:11.5

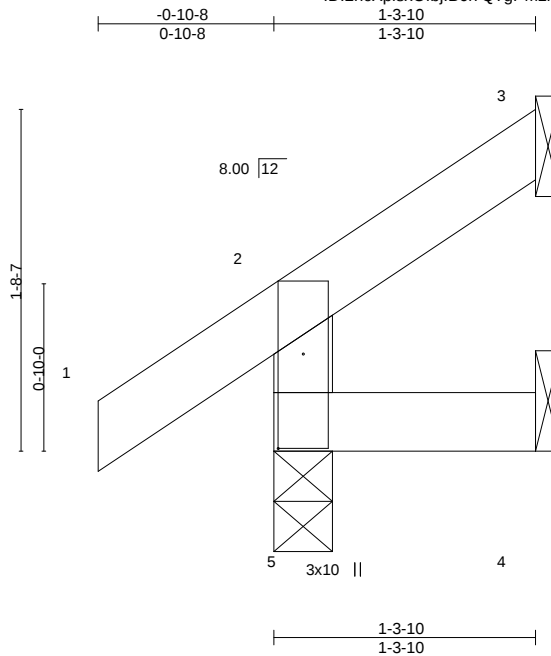


Plate Offsets (X,Y)-- [5:0-5-10,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=46(LC 8)
Max Uplift 5=-13(LC 8), 3=-25(LC 8), 4=-4(LC 8)
Max Grav 5=155(LC 1), 3=24(LC 15), 4=19(LC 3)

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

NOTES-

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



December 3, 2020

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job

W0 88

Truss

J26

Truss Type

Jack-Open Girder

Qty

1

Ply

1

Lot 88 W0

Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Nov 30 2020 MiTek Industries, Inc.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-tskzc6oRUNSqNEEt?7VJig5Gvfu_Ne2OMrf4CxyCxiN

143840430

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

1/13/2021 10:15:52 AM

01/05/2021

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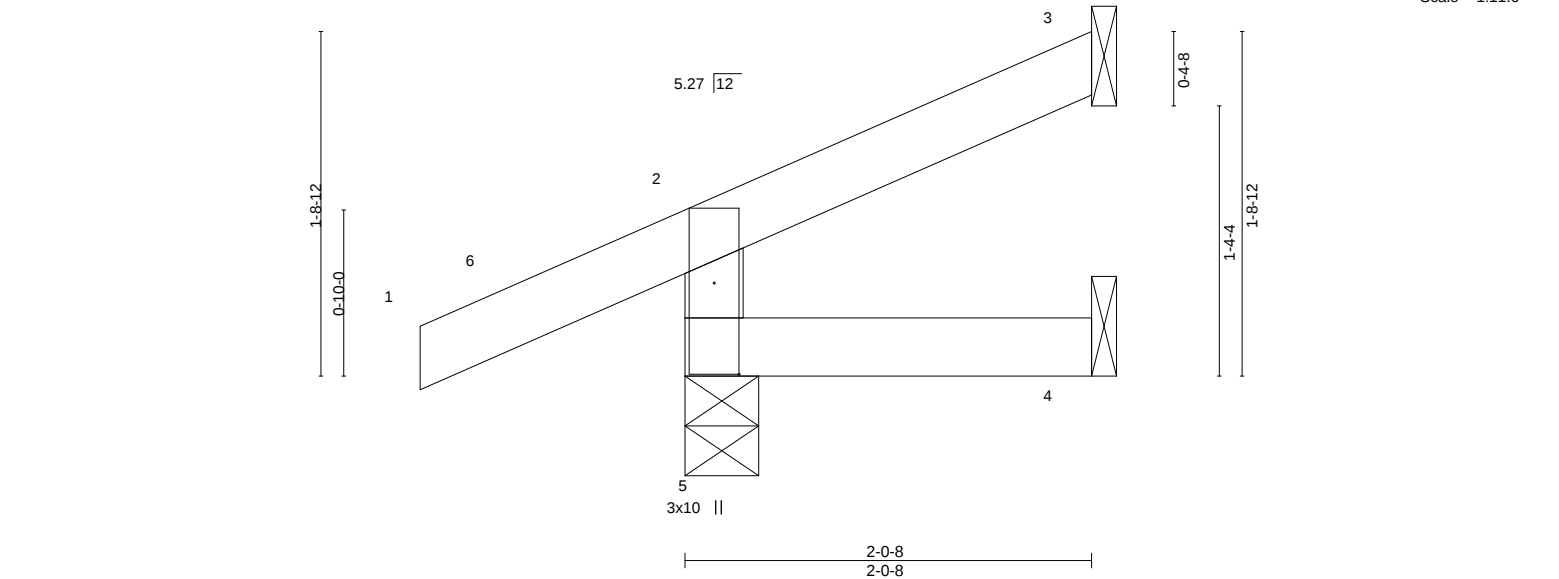


Plate Offsets (X,Y)--		[5:0-5-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 5 >999 360
			Vert(CT) -0.00 5 >999 240
			Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.00 5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 7 lb FT = 10%

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

REACTIONS. (size) 5=0-4-7, 3=Mechanical, 4=Mechanical
 Max Horz 5=63(LC 7)
 Max Uplift 5=-112(LC 12), 3=-22(LC 12)
 Max Grav 5=70(LC 1), 3=25(LC 1), 4=26(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) 3 except (jt=lb) 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) 9 lb down and 3 lb up at -1-3-15 , and 9 lb down and 3 lb up at -1-3-15 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).

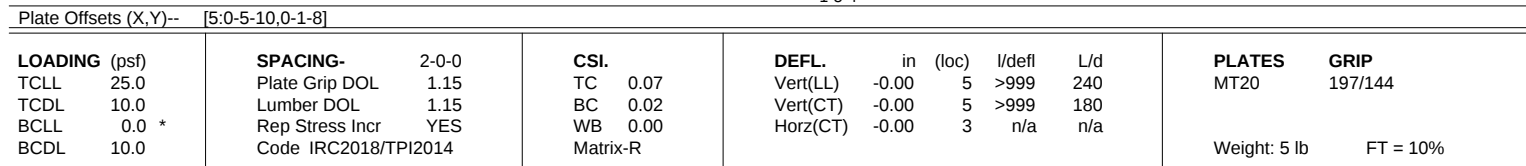
LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Concentrated Loads (lb)
 Vert: 1=-13(F=-7, B=-7)
 Trapezoidal Loads (plf)
 Vert: 1=-0(F=35, B=35)-to-6=-9(F=30, B=30), 6=0(F=35, B=35)-to-2=-17(F=27, B=27), 2=-17(F=27, B=27)-to-3=-49(F=10, B=10), 5=-5(F=8, B=8)-to-4=-14(F=3, B=3)



December 3, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW** 1438404321
LEE'S SUMMIT MISSOURI
t, Inc. 1/16/2021 10:02:22 Page 1
SqNEEt77VJig5Gdfu?Ne2OMr4CXYcXiN
01/05/2021



REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=50(LC 8)
Max Uplift 5=-12(LC 8), 3=-29(LC 8), 4=-4(LC 8)
Max Grav 5=158(LC 1), 3=30(LC 15), 4=22(LC 3)

NOTES-

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



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

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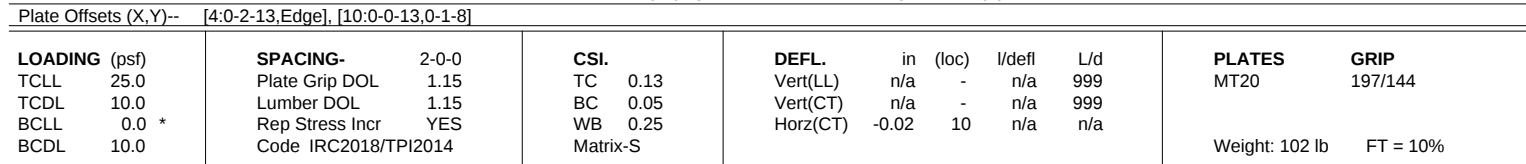
**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW** 1438404322

DEVELOPMENT SERVICES

LEE'S SUMMIT MISSOURI

1438404322 Page 1

01/05/2021



REACTIONS. All bearings 14-2-10.
(lb) - Max Horz 1=535(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 14, 13 except 1=424(LC 6),
10=277(LC 8), 17=371(LC 8), 16=412(LC 8), 15=191(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 12, 15, 14, 13 except 1=860(LC
8), 11=283(LC 17), 17=305(LC 15), 16=334(LC 15)

TOP CHORD 1-2=-953/512, 2-3=-598/333
BOT CHORD 10-11=-296/177
WEBS 2-17=-257/376, 3-16=-295/440

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=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 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 14, 13 except (jt=lb) 1=424, 10=277, 17=371, 16=412, 15=191.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 10.
- 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.



December 3, 2020

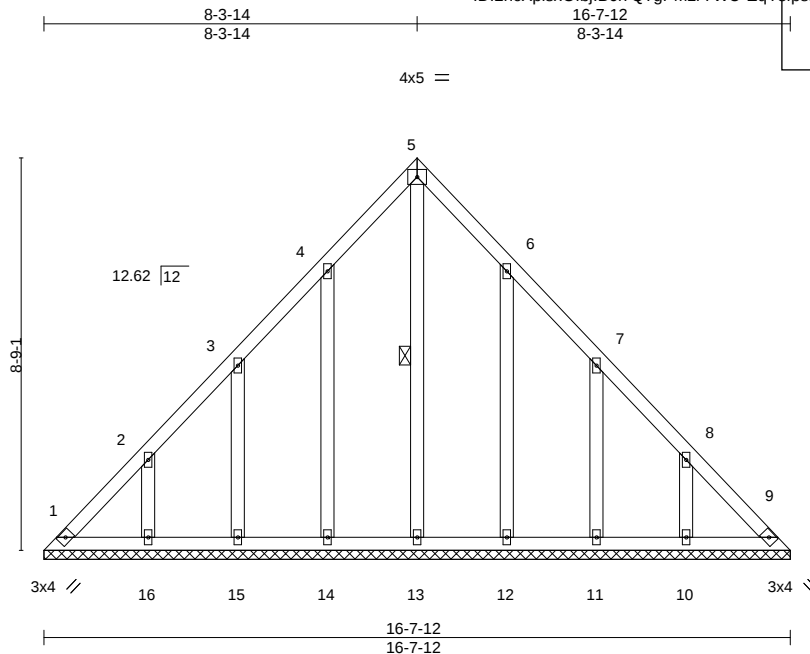


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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 143840433 WHEELER LUMBER, W0 88 Waverly, KS - 66871, 8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: www.mitek.com ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-EqYsfpsaJv56U?6qoh4UPjo64gbl1uT7V7MrtkyCxiI 01/05/2021 Scale = 1:51.4
W0 88	LAY3	GABLE	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871,						



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 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 82 lb	FT = 10%

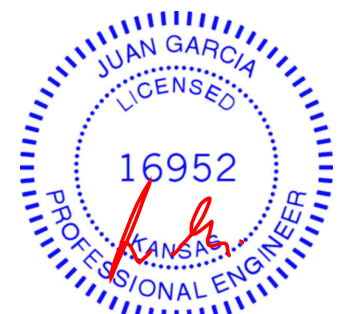
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 16-7-12.
(lb) - Max Horz 1=222(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-126(LC 8), 15=-122(LC 8), 16=-139(LC 8), 12=-125(LC 9), 11=-123(LC 9), 10=-139(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=-285/187, 8-9=-250/135

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=126, 15=122, 16=139, 12=125, 11=123, 10=139.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO
WO 88	LAY4	GABLE	1	1	

Wheeler Lumber,	Waverly, KS - 66871,	8.430 s Nov 30 2020 MiTek Industries, Inc.	Job Reference (optional)
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RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

WEB SUBMIT MISSOURI

01/05/2021

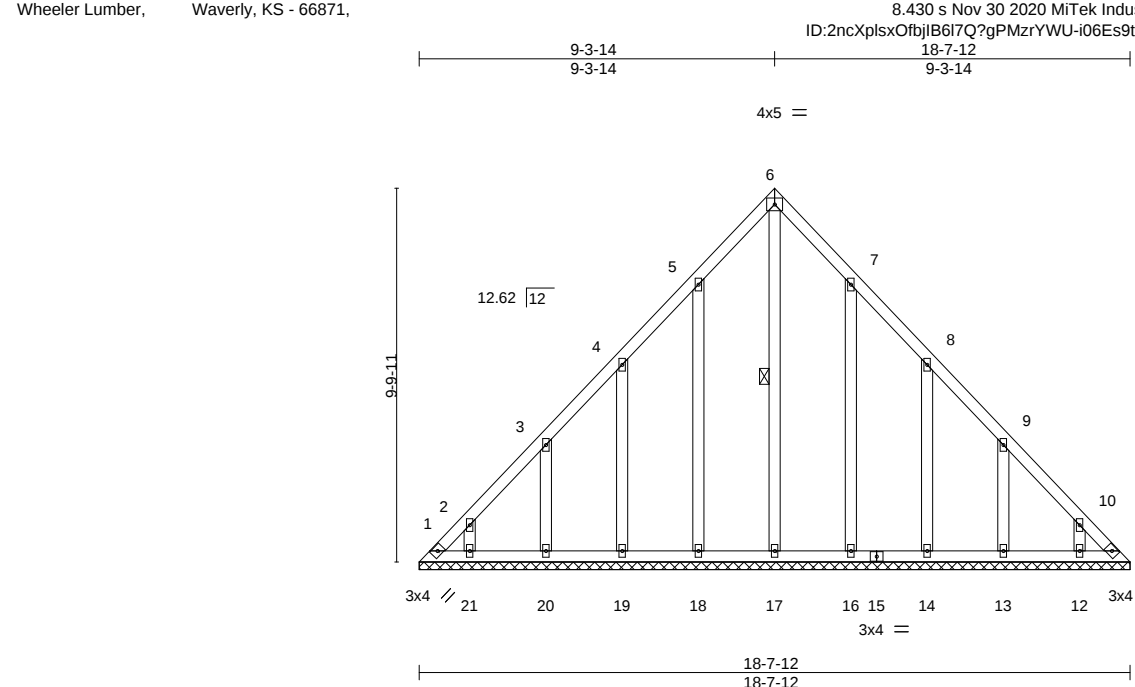
143840434

18-7-12

9-3-14

4x5 =

Scale = 1:60.4



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)	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 0.16	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 98 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 6-17

REACTIONS. All bearings 18-7-12.
 (lb) - Max Horz 1=-250(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-139(LC 6), 18=-124(LC 8), 19=-126(LC 8), 20=-127(LC 8), 21=-106(LC 8), 16=-121(LC 9), 14=-127(LC 9), 13=-126(LC 9), 12=-106(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 11, 17, 18, 19, 20, 21, 16, 14, 13, 12 except 1=258(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-361/219, 2-3=-263/185, 10-11=-322/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=139, 18=124, 19=126, 20=127, 21=106, 16=121, 14=127, 13=126, 12=106.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 3,2020

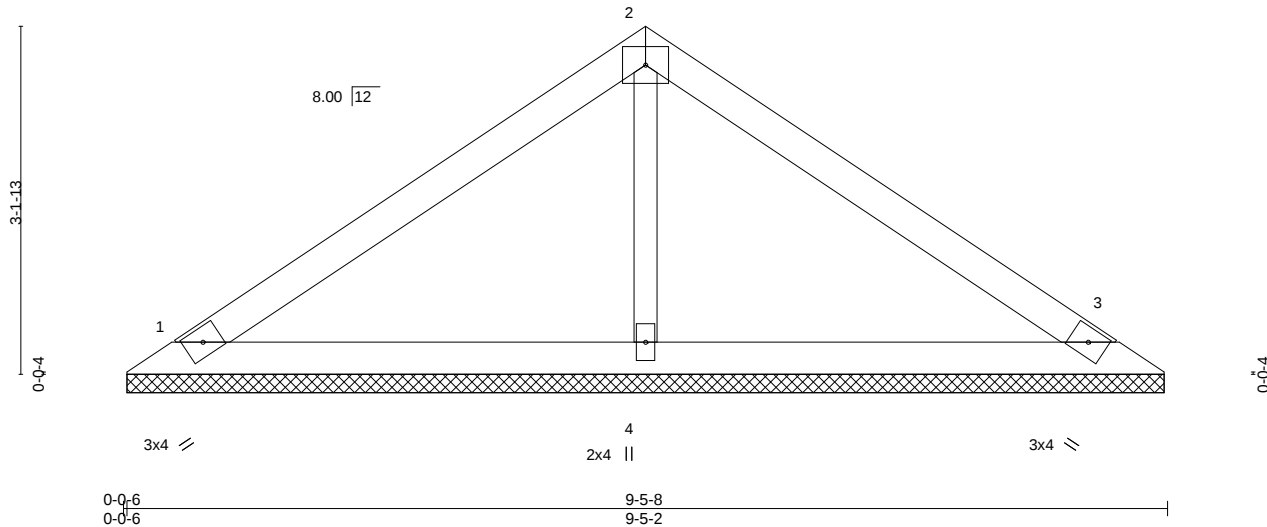
Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES MISSOURI 01/05/2021
W0 88	V1	Valley	1	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	
8.430 s Nov 30 2020 MiTek Industries, Inc.						

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-eOD?HrvScqThLSrPTpeB1MQbStbmEF6ZB5bWU3yCxiF

4-8-12 4-8-12 9-5-8 4-8-12

4x5 =

Scale = 1:20.9



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 0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 24 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=9-4-12, 3=9-4-12, 4=9-4-12
 Max Horz 1=74(LC 5)
 Max Uplift 1=-37(LC 8), 3=-46(LC 9), 4=-14(LC 8)
 Max Grav 1=197(LC 1), 3=197(LC 1), 4=371(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, 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.



December 3, 2020

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

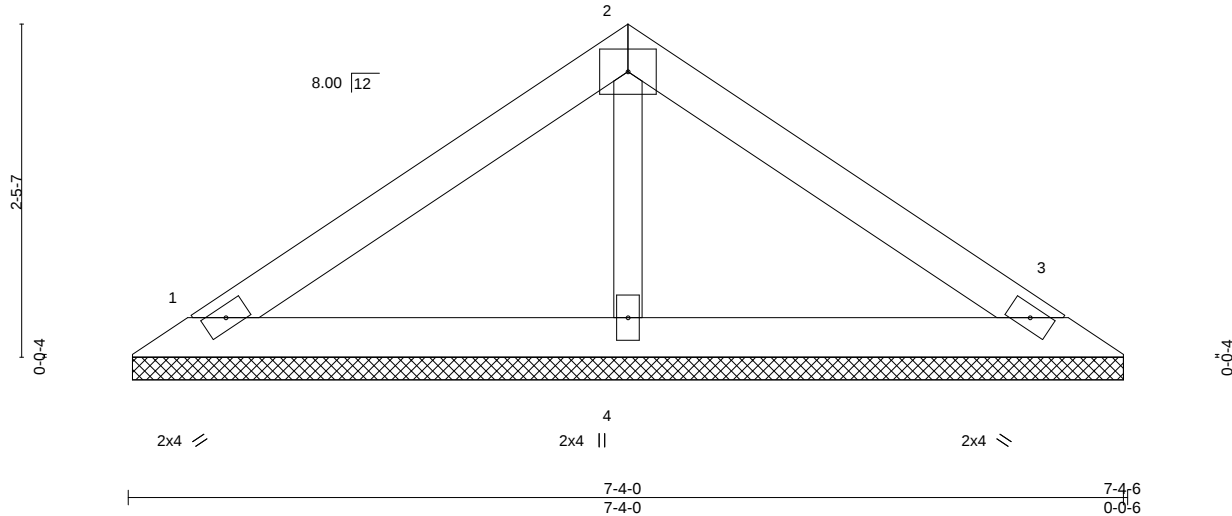
Job	Truss	Truss Type	Qty	Ply	Lot 88 W0	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021
W0 88	V2	Valley	1	1		
Job Reference (optional)						
8.430 s Nov 30 2020 MiTek Industries, Inc. Web Site: MISSOURI						

Wheeler Lumber, Waverly, KS - 66871, ID:2ncXplsXOfbjiB6l7Q?gPMzrYWU-eOD?HrvScqThLSrPTpeB1MQcPtoEFVZB5bWU3yCxiF

3-8-3 3-8-3 7-4-6 3-8-3

4x5 =

Scale = 1:17.0



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 0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 19 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.

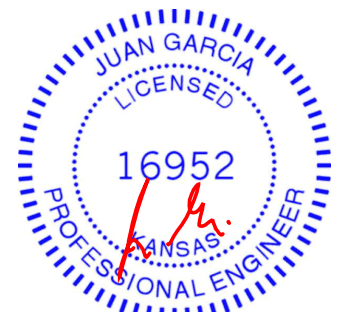
REACTIONS.

(size) 1=7-3-10, 3=7-3-10, 4=7-3-10
 Max Horz 1=-56(LC 4)
 Max Uplift 1=-36(LC 8), 3=-43(LC 9)
 Max Grav 1=162(LC 1), 3=162(LC 1), 4=252(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.



December 3, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 88 WO	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES WEB SITE: MISSOURI 01/05/2021
W0 88	V3	Valley	1	1		
Wheeler Lumber, Waverly, KS - 66871,					Job Reference (optional)	

8.430 s Nov 30 2020 MiTek Industries, Inc. ID:2ncXplsxOfbjB6l7Q?gPMzrYWU-7bnNUBv4N8bYycQb1W9QaZypYHy4ziHjQIK30VvCxiE

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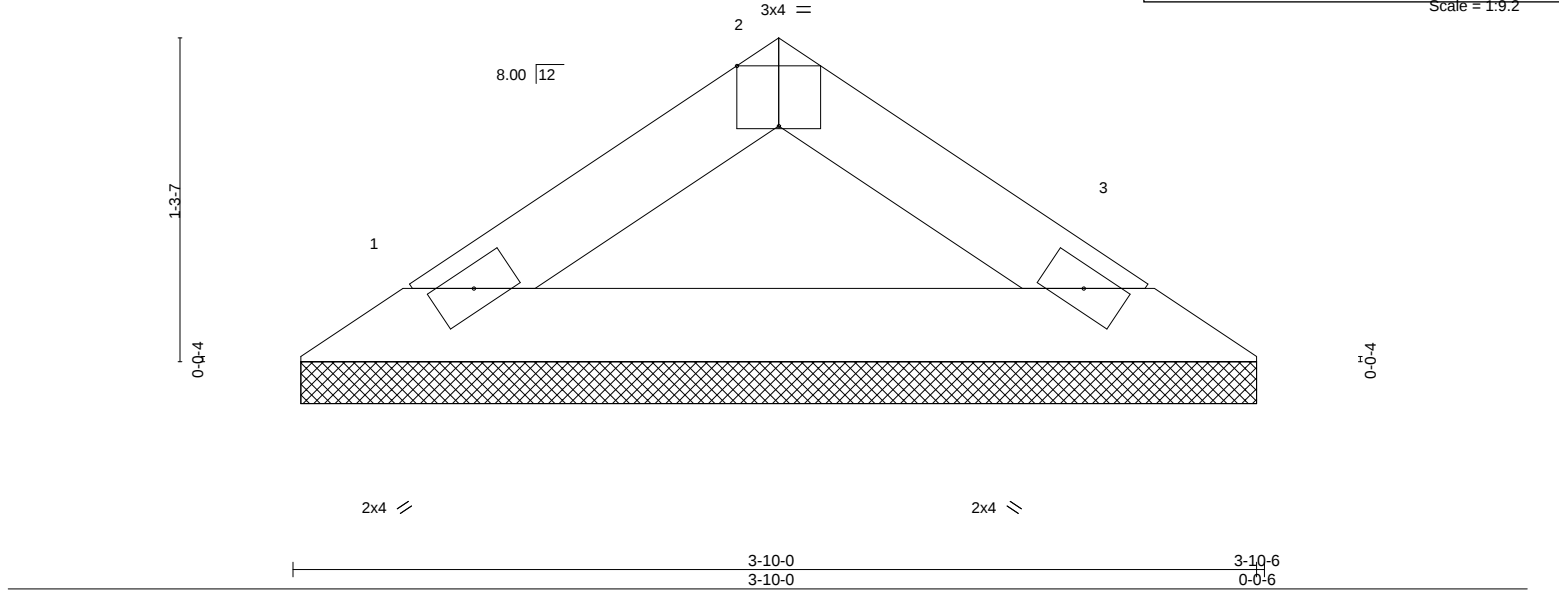


Plate Offsets (X,Y)--		[2:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							
								Weight: 8 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-6 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 1=3-9-10, 3=3-9-10
	Max Horz 1=-25(LC 4)
	Max Uplift 1=-15(LC 8), 3=-15(LC 9)
	Max Grav 1=131(LC 1), 3=131(LC 1)

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



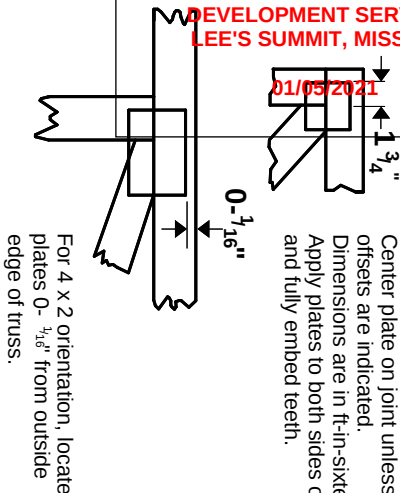
December 3,2020

Symbols

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/05/2021

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

4 X 4

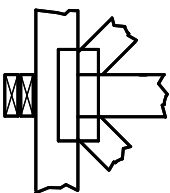
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

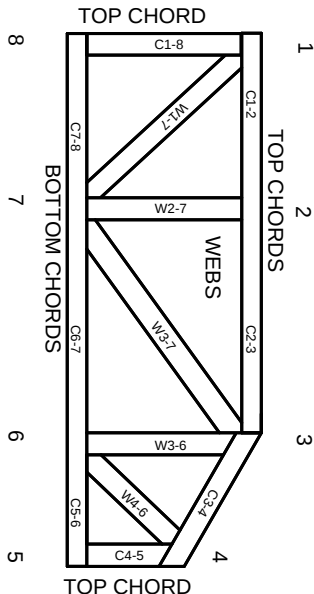


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.