

RE: 400374 Lot 64 RR MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 80 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I41823700	A1	6/26/2020	27	I41823726	H8	6/26/2020
2	I41823701	A2	6/26/2020	28	I41823727	J3	6/26/2020
3	I41823702	A3	6/26/2020	29	I41823728	J4	6/26/2020
4	I41823703	A4	6/26/2020	30	I41823729	J5	6/26/2020
5	I41823704	A5	6/26/2020	31	I41823730	J6	6/26/2020
6	I41823705	A6	6/26/2020	32	I41823731	J7	6/26/2020
7	I41823706	A7	6/26/2020	33	I41823732	J8	6/26/2020
8	I41823707	B1	6/26/2020	34	I41823733	J9	6/26/2020
9	I41823708	B2	6/26/2020	35	I41823734	J10	6/26/2020
10	I41823709	B3	6/26/2020	36	I41823735	J11	6/26/2020
11	I41823710	B4	6/26/2020	37	I41823736	J12	6/26/2020
12	I41823711	D1	6/26/2020	38	I41823737	J13	6/26/2020
13	I41823712	D2	6/26/2020	39	I41823738	J14	6/26/2020
14	I41823713	D3	6/26/2020	40	I41823739	J15	6/26/2020
15	I41823714	G1	6/26/2020	41	I41823740	J16	6/26/2020
16	I41823715	G2	6/26/2020	42	I41823741	J17	6/26/2020
17	I41823716	G3	6/26/2020	43	I41823742	J18	6/26/2020
18	I41823717	G4	6/26/2020	44	I41823743	J19	6/26/2020
19	I41823718	G5	6/26/2020	45	I41823744	J20	6/26/2020
20	I41823719	H1	6/26/2020	46	I41823745	J21	6/26/2020
21	I41823720	H2	6/26/2020	47	I41823746	J22	6/26/2020
22	I41823721	H3	6/26/2020	48	I41823747	J23	6/26/2020
23	I41823722	H4	6/26/2020	49	I41823748	J24	6/26/2020
24	I41823723	H5	6/26/2020	50	I41823749	J25	6/26/2020
25	l41823724	H6	6/26/2020	51	I41823750	J37	6/26/2020
26	I41823725	H7	6/26/2020	52	I41823751	J38	6/26/2020

1 of 2

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: Liu, Xuegang

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.



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** CODES ADMINISTRACION LEE'S SUMMIT, MISSOURI



RE: 400374 - Lot 64 RR

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

Site Information:

Project Customer: Project Name:

Lot/Block: Subdivision: Address:

City, County: State:

No.	Seal#	Truss Name	Date
53	141823752	J39	6/26/2020
54	141823753	J40	6/26/2020
55	141823754	J41	6/26/2020
56	141823755	J42	6/26/2020
57	141823756	K1	6/26/2020
58	141823757	K2	6/26/2020
59	141823758	K3	6/26/2020
60	141823759	K4	6/26/2020
61	141823760	K5	6/26/2020
62	141823761	K6	6/26/2020
63	141823762	K7	6/26/2020
64	141823763	L1	6/26/2020
65	141823764	L2	6/26/2020
66	141823765	LAY2	6/26/2020
67	141823766	LAY3	6/26/2020
68	141823767	LAY4	6/26/2020
69	141823768	LAY5	6/26/2020
70	141823769	M1	6/26/2020
71	141823770	M2	6/26/2020
72	I41823771	M3	6/26/2020
73	141823772	M4	6/26/2020
74	141823773	V1	6/26/2020
75	141823774	V2	6/26/2020
76	141823775	V3	6/26/2020
77	141823776	V4	6/26/2020
78	I41823777	V5	6/26/2020
79	141823778	V6	6/26/2020
80	I41823779	V7	6/26/2020



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This package includes 80 individual, dated Truss Design Drawings and 0 Additional Drawings.

1 I41823700 A1 6/26/2020 27 I41823726 H8 6/26/2020 2 I41823701 A2 6/26/2020 28 I41823727 J3 6/26/2020 3 I41823702 A3 6/26/2020 29 I41823728 J4 6/26/2020 4 I41823703 A4 6/26/2020 30 I41823729 J5 6/26/2020 5 I41823704 A5 6/26/2020 31 I41823730 J6 6/26/2020 6 I41823705 A6 6/26/2020 32 I41823731 J7 6/26/2020 7 I41823706 A7 6/26/2020 33 I41823732 J8 6/26/2020 8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020 12 I41823711 D1 6/26/2020 38 I4182373	No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
3 I41823702 A3 6/26/2020 29 I41823728 J4 6/26/2020 4 I41823703 A4 6/26/2020 30 I41823729 J5 6/26/2020 5 I41823704 A5 6/26/2020 31 I41823730 J6 6/26/2020 6 I41823705 A6 6/26/2020 32 I41823731 J7 6/26/2020 7 I41823706 A7 6/26/2020 33 I41823732 J8 6/26/2020 8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	1	I41823700	A1	6/26/2020	27	I41823726	H8	6/26/2020
4 I41823703 A4 6/26/2020 30 I41823729 J5 6/26/2020 5 I41823704 A5 6/26/2020 31 I41823730 J6 6/26/2020 6 I41823705 A6 6/26/2020 32 I41823731 J7 6/26/2020 7 I41823706 A7 6/26/2020 33 I41823732 J8 6/26/2020 8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	2	I41823701	A2	6/26/2020	28	I41823727	J3	6/26/2020
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6 I41823705 A6 6/26/2020 32 I41823731 J7 6/26/2020 7 I41823706 A7 6/26/2020 33 I41823732 J8 6/26/2020 8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	4	141823703	A4	6/26/2020	30	I41823729	J5	6/26/2020
7 I41823706 A7 6/26/2020 33 I41823732 J8 6/26/2020 8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	5	I41823704	A5	6/26/2020	31	I41823730	J6	6/26/2020
8 I41823707 B1 6/26/2020 34 I41823733 J9 6/26/2020 9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	6	141823705	A6	6/26/2020	32	I41823731	J7	6/26/2020
9 I41823708 B2 6/26/2020 35 I41823734 J10 6/26/2020 10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	7	I41823706	A7	6/26/2020	33	I41823732	J8	6/26/2020
10 I41823709 B3 6/26/2020 36 I41823735 J11 6/26/2020 11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	8	I41823707	B1	6/26/2020	34	I41823733	J9	6/26/2020
11 I41823710 B4 6/26/2020 37 I41823736 J12 6/26/2020	9	I41823708	B2	6/26/2020	35	I41823734	J10	6/26/2020
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12 I41823711 D1 6/26/2020 38 I41823737 J13 6/26/2020	11	I41823710	B4	6/26/2020	37	I41823736	J12	6/26/2020
	12	I41823711	D1	6/26/2020	38	I41823737	J13	6/26/2020
13 I41823712 D2 6/26/2020 39 I41823738 J14 6/26/2020	13	I41823712	D2	6/26/2020	39	I41823738	J14	6/26/2020
14 I41823713 D3 6/26/2020 40 I41823739 J15 6/26/2020	14	I41823713	D3	6/26/2020	40	I41823739	J15	6/26/2020
15 I41823714 G1 6/26/2020 41 I41823740 J16 6/26/2020	15	I41823714	G1	6/26/2020	41	I41823740	J16	6/26/2020
16 I41823715 G2 6/26/2020 42 I41823741 J17 6/26/2020	16	I41823715	G2	6/26/2020	42	I41823741	J17	6/26/2020
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20 I41823719 H1 6/26/2020 46 I41823745 J21 6/26/2020	20	I41823719	H1	6/26/2020	46	I41823745	J21	6/26/2020
21 I41823720 H2 6/26/2020 47 I41823746 J22 6/26/2020	21	I41823720	H2	6/26/2020	47	I41823746	J22	6/26/2020
22 I41823721 H3 6/26/2020 48 I41823747 J23 6/26/2020	22	I41823721	H3	6/26/2020	48	I41823747	J23	6/26/2020
23 141823722 H4 6/26/2020 49 141823748 J24 6/26/2020	23	I41823722	H4	6/26/2020	49	I41823748	J24	6/26/2020
24 I41823723 H5 6/26/2020 50 I41823749 J25 6/26/2020	24	I41823723	H5	6/26/2020	50	I41823749	J25	6/26/2020
25 I41823724 H6 6/26/2020 51 I41823750 J37 6/26/2020	25	I41823724	H6	6/26/2020	51	I41823750	J37	6/26/2020
26 I41823725 H7 6/26/2020 52 I41823751 J38 6/26/2020	26	I41823725	H7	6/26/2020	52	I41823751	J38	6/26/2020

1 of 2

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MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Liu, Xuegang

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

Missouri COA: 001193

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78	I41823777	V5	6/26/2020
79	141823778	V6	6/26/2020
80	I41823779	V7	6/26/2020

20-0-0

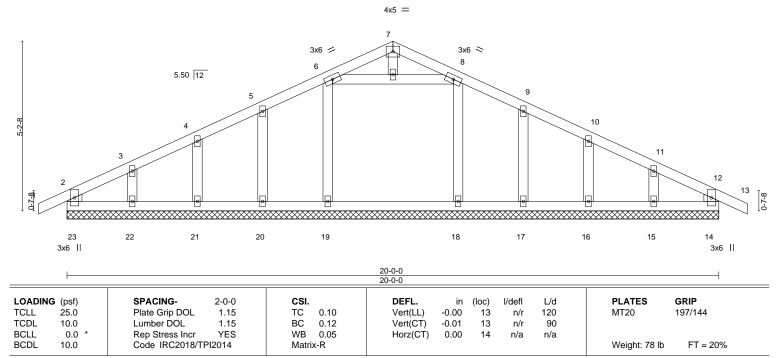
10-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals

0-10-8 Scale = 1:35.3



BOT CHORD

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD

10-0-0

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

0-10-8

WEBS 2x6 SPF No.2 *Except*

6-8: 2x4 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 23=73(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 23, 14, 19, 20, 21, 22, 18, 17, 16, 15

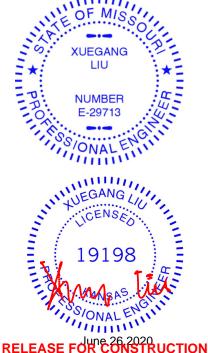
Max Grav All reactions 250 lb or less at joint(s) 23, 14, 20, 21, 22, 17, 16, 15 except 19=315(LC 2), 18=315(LC 2)

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

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=1.33 plate grip DOI = 1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 19, 20, 21, 22, 18, 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.

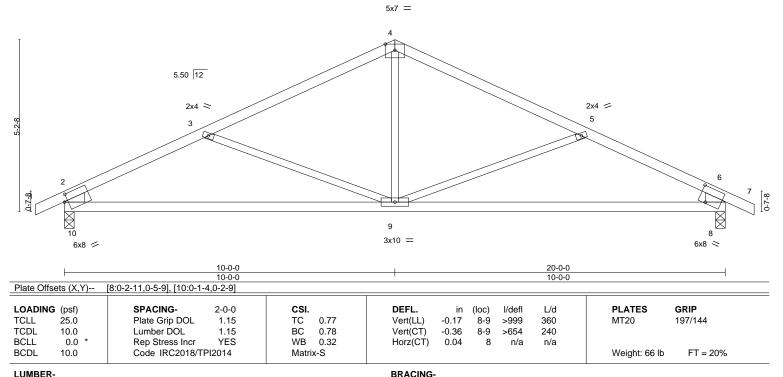








Scale = 1:34.9



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 *Except* 2-10,6-8: 2x8 SP DSS

REACTIONS. (size) 10=0-3-8, 8=0-3-8 Max Horz 10=-72(LC 9)

Max Uplift 10=-137(LC 8), 8=-137(LC 9) Max Grav 10=955(LC 1), 8=955(LC 1)

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

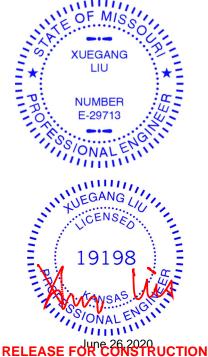
2-3=-1395/233, 3-4=-1081/129, 4-5=-1081/129, 5-6=-1395/234, 2-10=-855/185, TOP CHORD

6-8=-855/185

BOT CHORD 9-10=-223/1181, 8-9=-151/1181 4-9=0/469, 5-9=-343/222, 3-9=-343/222 WEBS

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=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.



Structural wood sheathing directly applied or 3-3-7 oc purlins,

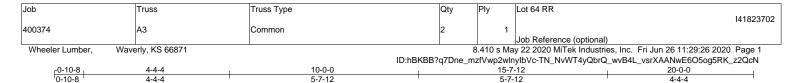
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals



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

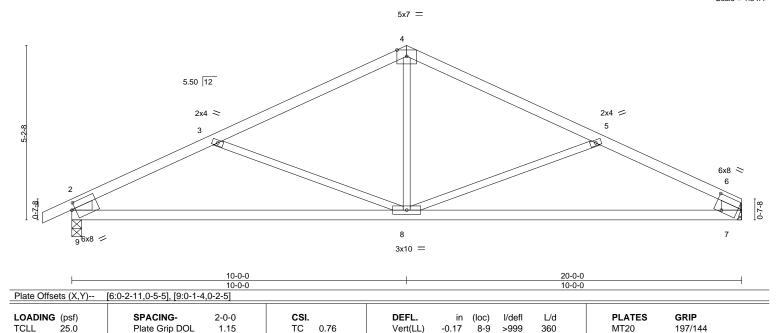




5-7-12

Scale = 1:34.4

4-4-4



LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEBS 2x3 SPF No.2 *Except* 2-9,6-7: 2x8 SP DSS

BRACING-

Vert(CT)

Horz(CT)

-0.37

0.04

8-9

TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins,

240

n/a

except end verticals

>636

n/a

5-7-12

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

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

Max Horz 9=82(LC 8)

Max Uplift 9=-137(LC 8), 7=-109(LC 9) Max Grav 9=958(LC 1), 7=870(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

4-4-4

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

2-3=-1398/233, 3-4=-1083/129, 4-5=-1083/128, 5-6=-1416/239, 2-9=-856/184, TOP CHORD

1.15

YES

ВС

WB

Matrix-S

0.78

0.35

6-7=-764/155

BOT CHORD 8-9=-232/1184, 7-8=-177/1208 4-8=0/469, 5-8=-368/229, 3-8=-344/222 WEBS

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=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=137, 7=109.
- 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.



FT = 20%

Weight: 65 lb

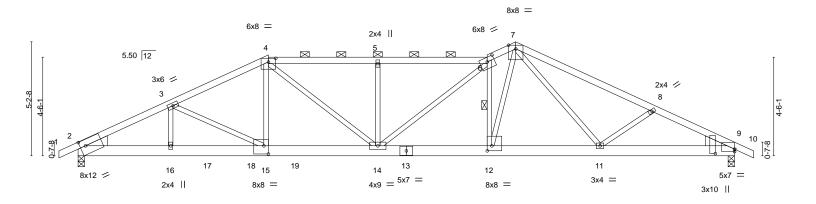


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 64 RR 141823703 400374 A4 Roof Special Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:28 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Ql67KCULU1sZfl3IIVNS_Hwp3_66iudOF_aYPtz2QcL 30-10-8 0-10-8 -0-10-8 0-10-8 18-8-6 20-0-0 26-2-11 30-0-0 4-2-12 5-0-0 5-0-0 1-3-10 6-2-11 3-9-5

Scale = 1:52.6



		2-12	8-8-	-6	13-8	-6	18-8-6		23-1	10-4	30-0-0	
	<u>'</u> 4-	-2-12	4-5	-9 '	5-0-	0	5-0-0		5-1	-14	6-1-12	ı
Plate Offsets	s (X,Y)	[2:0-2-15,0-3-5	[a], [4:0-4-0,0]	0-2-0], [6:0-4	-0,0-2-6], [9:0	2-6,0-10-9],	[9:0-0-0,0-1-5], [1:	2:0-2-8,0-2-1	2], [15:0-2-	8,0-4-8]		
LOADING (p	psf)	SPACIN	IG-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Gr	rip DOL	1.15	TC	0.93	Vert(LL)	-0.24 14-1	>999	360	MT20	197/144
TCDL 1	0.0	Lumber	DOL	1.15	BC	0.60	Vert(CT)	-0.43 14-1	5 >829	240		
BCLL	0.0 *	Rep Stre	ess Incr	NO	WB	0.88	Horz(CT)	0.08	9 n/a	n/a		
BCDL 1	0.0	Code IF	RC2018/TP	I2014	Matrix	c-S	, ,				Weight: 148 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

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

6-12

2-0-0 oc purlins (3-4-5 max.): 4-6.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

4-6,7-10: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SP DSS

WEBS 2x3 SPF No.2 WEDGE

Left: 2x6 SPF No.2, Right: 2x6 SPF No.2

REACTIONS. (size) 2=0-3-8 (req. 0-4-4), 9=0-3-8

Max Horz 2=52(LC 29)

Max Uplift 2=-314(LC 8), 9=-92(LC 9) Max Grav 2=2698(LC 1), 9=1898(LC 1)

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

TOP CHORD 2-3=-5152/624, 3-4=-4749/568, 4-5=-4360/463, 5-6=-4361/463, 6-7=-3810/342,

7-8=-3373/227, 8-9=-3548/213

BOT CHORD 2-16=-559/4490, 15-16=-559/4490, 14-15=-459/4236, 12-14=-237/3518, 11-12=-168/2841, 9-11=-161/3082 **WEBS**

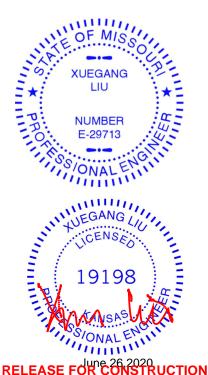
3-16=-37/304, 3-15=-262/105, 4-15=-217/1548, 4-14=-274/517, 5-14=-487/103, 6-14=-204/1219, 6-12=-2404/311, 7-12=-255/2555, 7-11=-44/278

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) 9 except (jt=lb)
- 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) 275 lb down and 97 lb up at 3-11-4, 219 lb down and 46 lb up at 5-11-4, and 219 lb down and 55 lb up at 7-11-4, and 1065 lb down and 182 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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





Job	Truss	Truss Type	Qty	Ply	Lot 64 RR	144000700
400374	A4	Roof Special Girder	1	1	Job Reference (ontional)	I41823703

Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:28 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Ql67KCULU1sZfl3IIVNS_Hwp3_66iudOF_aYPtz2QcL

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 6-7=-70, 7-10=-70, 2-9=-20

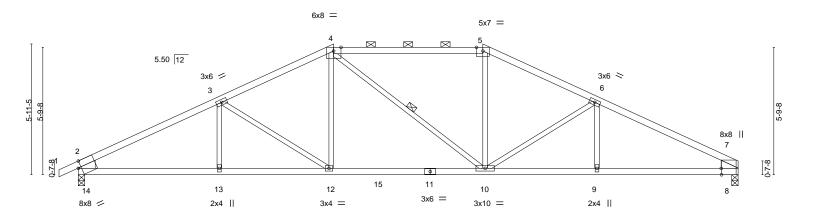
Concentrated Loads (lb)

Vert: 16=-275(F) 17=-219(F) 18=-219(F) 19=-1065(F)

RELEASE FOR CONSTRUCTION NOTED ON PLANS REVIE CODE TO MINISTRATION LEVEL MINISTRATION

MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017 Job Truss Truss Type Lot 64 RR 141823704 Hip 400374 A5 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:29 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-uygWXYVzFL_QHSeUsCuhWUT_SOLORUQXUeK5xJz2QcK 30-0-0 0-10-8 18-4-12 5-2-5 6-9-7 5-2-5 6-5-0

Scale = 1:52.4



	<u> </u>	6-5-0		-7-4	18-4-12			23-7-		30-0-0	
	I	6-5-0	5-2	2-5 '	6-9-7		'	5-2-	5	6-5-0	· ·
Plate Off	sets (X,Y)	[4:0-4-1,Edge], [7:0-3-8,I	Edge], [14:0-1-	11,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
CLL	25.0	Plate Grip DOL	1.15	TC 0).95 Vert(LL)	-0.24	9-10	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC 0	0.98 Vert(CT)	-0.42	9-10	>841	240		
3CLL	0.0 *	Rep Stress Incr	YES	WB 0).27 Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-S	s ` ´					Weight: 105 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-4: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 2-14,7-8: 2x10 SP 2400F 2.0E

REACTIONS. (size) 14=0-3-8, 8=0-3-8 Max Horz 14=93(LC 8)

Max Uplift 14=-168(LC 8), 8=-139(LC 9) Max Grav 14=1445(LC 2), 8=1364(LC 2)

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

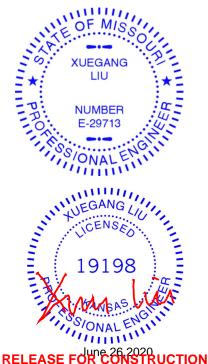
TOP CHORD 2-3=-2301/225, 3-4=-1968/186, 4-5=-1751/202, 5-6=-1965/188, 6-7=-2271/225,

2-14=-1280/203, 7-8=-1146/168

BOT CHORD 13-14=-214/1981, 12-13=-214/1981, 10-12=-87/1758, 9-10=-144/1973, 8-9=-144/1973

WEBS 3-12=-296/168, 4-12=-16/425, 5-10=0/420, 6-10=-297/169

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.



Structural wood sheathing directly applied, except end verticals, and

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

4-10

2-0-0 oc purlins (2-2-0 max.): 4-5.

2-2-0 oc bracing: 8-9.

1 Row at midpt



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



Job Truss Truss Type Lot 64 RR 141823705 400374 A6 Hip Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:30 2020 Page 1

8-1-9

Wheeler Lumber, Waverly, KS 66871

6-4-15

-0-10-8 0-10-8

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-M8EuluWb0f6HvcDqQwPw3i?9rohSAv?qjl3fTlz2QcJ 30-0-0 15-5-7 0-10-15

Structural wood sheathing directly applied, except end verticals, and

3-12, 6-11

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (4-0-10 max.): 4-5.

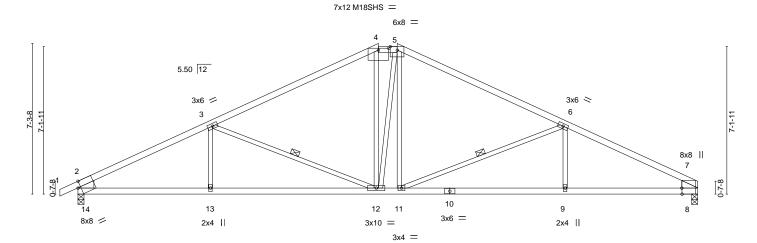
2-2-0 oc bracing: 13-14.

1 Row at midpt

6-4-15

8-1-9

Scale = 1:55.8



		6-4-15	1	14-6-9)	1 ₁ 5-5-7 ₁		23-7	-1	1	30-0-0	
	ı	6-4-15	ı	8-1-9		0-10-15		8-1-	9	1	6-4-15	
Plate Offse	ets (X,Y)	[4:0-6-0,0-1-2], [5:0-4-1,E	dge], [7:0-3-8,	Edge], [14:0	-1-11,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.26	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.53	9-11	>660	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matrix	k-S						Weight: 111 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E *Except* 10-14: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-14,7-8: 2x10 SP 2400F 2.0E

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

Max Horz 14=117(LC 8)

Max Uplift 14=-192(LC 8), 8=-163(LC 9) Max Grav 14=1405(LC 1), 8=1313(LC 1)

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

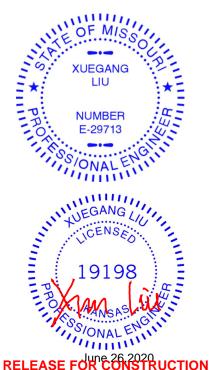
TOP CHORD 2-3=-2288/283, 3-4=-1699/215, 4-5=-1444/233, 5-6=-1707/216, 6-7=-2276/284,

2-14=-1290/216, 7-8=-1157/182

BOT CHORD 13-14=-296/1966, 12-13=-296/1966, 11-12=-63/1450, 9-11=-203/1973, 8-9=-203/1973 WEBS 3-12=-621/235, 4-12=-106/546, 5-12=-367/269, 5-11=-39/338, 6-11=-622/234

NOTES-

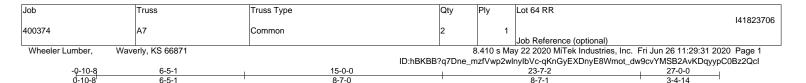
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=192, 8=163.
- 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.





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



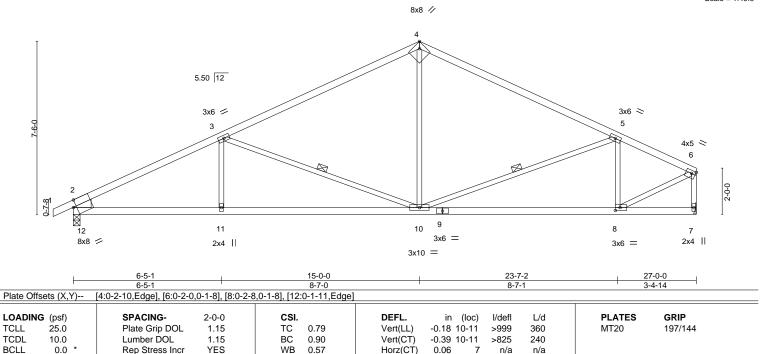


8-7-1

8-7-0

Scale = 1:49.9

3-4-14



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

10.0

2-12: 2x10 SP DSS

(size) 12=0-3-8, 7=Mechanical Max Horz 12=126(LC 8)

Max Uplift 12=-188(LC 8), 7=-138(LC 9) Max Grav 12=1283(LC 1), 7=1191(LC 1)

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

Code IRC2018/TPI2014

2-3=-2056/280, 3-4=-1384/190, 4-5=-1391/213, 5-6=-1313/168, 2-12=-1176/211, TOP CHORD

6-7=-1177/138

11-12=-304/1764, 10-11=-304/1764, 8-10=-166/1194

WEBS 3-11=0/260, 3-10=-722/261, 4-10=0/531, 5-8=-505/172, 6-8=-180/1354

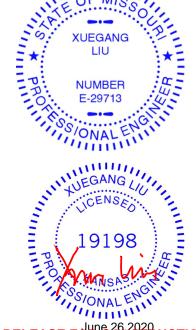
NOTES-

BOT CHORD

- 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=1.33 plate grip DOL=1.33

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=188, 7=138.
- 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.



FT = 20%

Weight: 96 lb

Structural wood sheathing directly applied or 2-2-0 oc purlins,

3-10, 5-10

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 7-8.

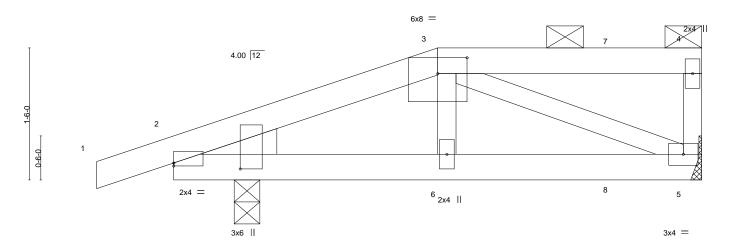
1 Row at midpt

RELEASE FOR CONSTRUCTION

DMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Scale = 1:13.1



3-0-0

	0-8-4	3-0-0	6-0-0	
	0-8-4	2-3-12	3-0-0	l
Plate Offsets (X,Y)	[2:0-0-13,0-9-1], [2:0-0-0,0-0-6],	, [3:0-4-0,0-2-3]		
LOADING (psf)	SPACING- 2-0-0	0 CSI. DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	5 TC 0.23 Vert(LL	.) 0.01 6 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	5 BC 0.28 Vert(C	Γ) -0.01 6 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	O WB 0.10 Horz(C	Ť) 0.00 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	,	Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=56(LC 5)

0-10-8

Max Uplift 5=-88(LC 5), 2=-120(LC 4) Max Grav 5=289(LC 1), 2=352(LC 1)

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

TOP CHORD 2-3=-406/115

BOT CHORD 2-6=-127/334, 5-6=-122/340

WEBS 3-5=-368/122

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=1.33 plate grip DOL=1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=120
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 138 lb up at 3-0-0, and 65 lb down and 50 lb up at 5-0-12 on top chord, and 26 lb down at 3-0-0, and 19 lb down at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

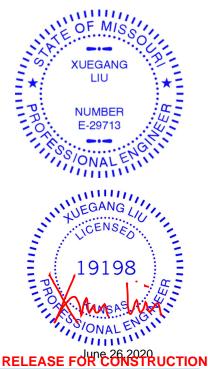
Vert: 1-3=-70, 3-4=-70, 2-5=-20

Continued on page 2

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing



Job	Truss	Truss Type	Qty	Ply	Lot 64 RR
400374	B1	HALF HIP GIRDER	1	1	Idh Reference (ontional)

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:32 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-IXLe9aYrYGM?8vN3XKSO875g?bY8eumzAcYlYez2QcH

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-8(F) 3=-15(F) 7=-20(F) 8=-10(F)

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEWIS MIMIT, MISSOURI
MITCK
16023 SWING ROUP
Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823708 400374 B2 HALF HIP Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:33 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-mjv0NwYTJaUsm3yF52zdhKdoq?t5NM?7PGIJ44z2QcG 6-0-0 0-10-8 5-0-0 1-0-0 Scale = 1:15.3 5x7 = 3 4.00 12 0-9-0 2x4 =5 3x6 || 3x4 = 0-8-4 0-8-4 Plate Offsets (X,Y)--[2:0-0-13,0-9-1], [2:0-0-0,0-0-6], [3:0-3-8,0-2-5] SPACING-GRIP LOADING (psf) 2-0-0 DEFL. (loc) I/defI L/d **PLATES** Plate Grip DOL **TCLL** 25.0 1.15 TC 0.41 Vert(LL) -0.07 2-5 >999 360 MT20 197/144

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.13

0.00

2-5

5

>526

n/a

240

n/a

except end verticals, and 2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 6-0-0 oc purlins,

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=85(LC 5)

Max Uplift 5=-50(LC 4), 2=-90(LC 4) Max Grav 5=252(LC 1), 2=337(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

1.15

YES

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=1.33 plate grip DOL=1.33

BC

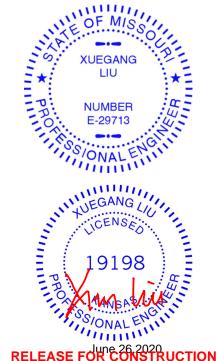
WB

Matrix-P

0.36

0.04

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 19 lb



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



Job Truss Truss Type Qty Lot 64 RR 141823709 400374 ВЗ MONOPITCH Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:33 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

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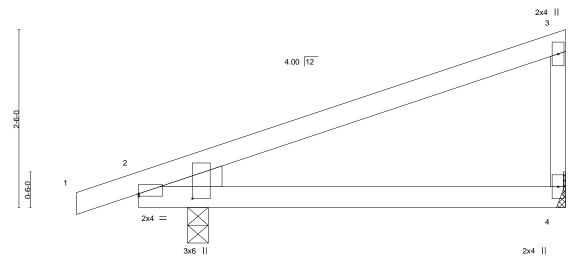
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

6-0-0 0-10-8 6-0-0

Scale = 1:16.2



6-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-0-0,0-0-6], [2:0-0-13	,0-9-1]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-4	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	2-4	>526	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P	, ,					Weight: 18 lb	FT = 20%	

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x4 SPF No.2

(size) 4=Mechanical, 2=0-3-8

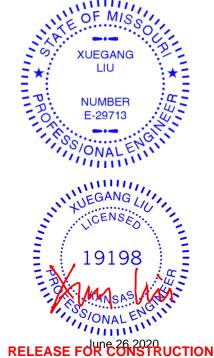
Max Horz 2=98(LC 5)

Max Uplift 4=-55(LC 8), 2=-88(LC 4) Max Grav 4=252(LC 1), 2=337(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=1.33 plate grip DOL=1.33
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823710 400374 B4 MONOPITCH Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:34 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-EvTPaGZ64tcjNDXSflUsDYA1mPG?6ppGew1scWz2QcF 3-0-0 0-10-8 Scale = 1:10.3 3 2x4 📙 4.00 12 0-9-0 2x4 = 4 3x6 || 2x4 || 3-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-0-6], [2:0-0-13,0-9-1] CSI. SPACING-DEFL. L/d **PLATES** GRIP LOADING (psf) (loc) I/defI Plate Grip DOL **TCLL** 25.0 1.15 TC 0.15 Vert(LL) -0.00 2-4 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 BC 0.19 Vert(CT) -0.01 2-4 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 2=54(LC 5)

Max Uplift 4=-24(LC 8), 2=-70(LC 4) Max Grav 4=110(LC 1), 2=208(LC 1)

Code IRC2018/TPI2014

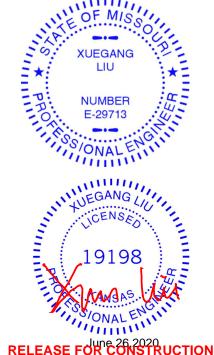
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=1.33 plate grip DOL=1.33

Matrix-P

- 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.



FT = 20%

Weight: 10 lb

Structural wood sheathing directly applied or 3-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.



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

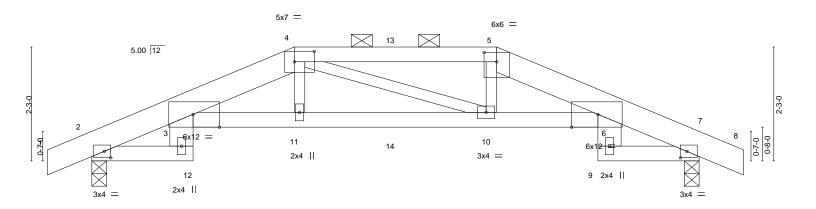
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823711 D1 400374 HIP GIRDER Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:35 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-j61nobakrBka?N6eDT?5mlj16pPjrEkPsanQ9zz2QcE 10-0-0 12-0-0 12-10-8 0-10-8 2-0-0 2-0-0 4-0-0 2-0-0 2-0-0 0-10-8

Scale = 1:22.8



<u> </u>	2-0-0 2-0-0	4-0-0 2-0-0	+	8-0-0 4-0-0	+		0-0-0 -0-0	12-0-0	—
Plate Offsets (X,Y)	[2:0-1-8,0-1-8], [3:0)-6-4,Edge], [4:0-4-12	2,0-2-8], [5:0-3-0,0-2-4], [6	6:0-6-4,Edge], [7:0-	1-8,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip D Lumber DOI Rep Stress Code IRC2	L 1.15	CSI. TC 0.88 BC 0.92 WB 0.15 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.16 10-11 -0.30 12 0.20 7	>857	L/d 360 240 n/a	PLATES MT20 Weight: 45 lb	GRIP 197/144 FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF 1650F 1.4E *Except* TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins,

4-5: 2x4 SPF No.2

2x4 SPF No.2 2-0-0 oc purlins (3-8-12 max.): 4-5.

WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing 3-12,6-9: 2x6 SPF No.2

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

Max Horz 2=37(LC 12)

Max Uplift 2=-162(LC 8), 7=-162(LC 9) Max Grav 2=908(LC 1), 7=908(LC 1)

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

TOP CHORD 2-3=-266/86, 3-4=-2181/367, 4-5=-2139/369, 5-6=-2184/366, 6-7=-266/68

BOT CHORD 3-11=-316/2101, 10-11=-317/2137, 6-10=-313/2104

WEBS 4-11=-12/424, 5-10=-19/435

NOTES-

BOT CHORD

- 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=1.33 plate grip DOL=1.33
- 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) 2=162, 7=162.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 55 lb up at 4-0-0, and 78 lb down and 55 lb up at 6-0-0, and 73 lb down and 55 lb up at 8-0-0 on top chord, and 240 lb down and 69 lb up at 4-0-0, and 46 lb down at 6-0-0, and 240 lb down and 69 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Continued on page 2

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

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Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:35 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-j61nobakrBka?N6eDT?5mlj16pPjrEkPsanQ9zz2QcE

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-12=-20, 3-6=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-31(B) 5=-31(B) 11=-240(B) 10=-240(B) 13=-31(B) 14=-46(B)

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Lot 64 RR 141823712 400374 D2 Roof Special Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 14:56:39 2020 Page 1 ID:hBKBB?q7Dne_mzf\wp2wlnylbVc-zt7t0osAwwf6tgW7VwHUIDHKA?mppED7mVLrDrz2Na6 Wheeler Lumber, Waverly, KS 66871, Mitek

9-8-8

10-0-0

10-0-0 oc bracing: 9-10

6-0-0

3-8-8

6-0-0

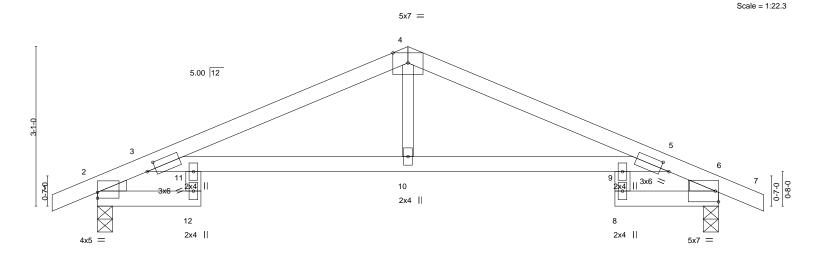
12-10-8 0-10-8

12-0-0

12-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:



		2-0-0		4-0-0		4-0-	0		2-0-0	
Plate Offs	sets (X,Y)	[2:0-0-0,0-1-6], [3:0	-2-1,0-1-8], [5:0-2-1	,0-1-8]						
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D	OL 1.15	TC 0.34	Vert(LL)	-0.09 10-11	>999	360	MT20	197/144
ΓCDL	10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.17 10-11	>806	240		
BCLL	0.0 *	Rep Stress I	ncr YES	WB 0.10	Horz(CT)	0.16 6	n/a	n/a		
BCDL	10.0	Code IRC20)18/TPI2014	Matrix-S					Weight: 36 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 *Except* **WEBS** 4-10: 2x3 SPF No.2

WEDGE

-0-10-8

0-10-8

2-3-8

2-3-8

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

REACTIONS. (lb/size) 2=598/0-3-8, 6=598/0-3-8

2-0-0

Max Horz 2=50(LC 12) Max Uplift 2=-91(LC 8), 6=-91(LC 9)

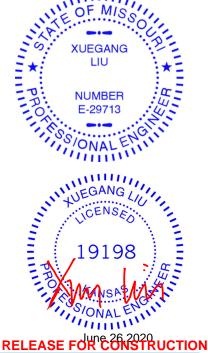
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-360/70, 3-4=-968/86, 4-5=-968/106, 5-6=-360/65 **BOT CHORD** 3-11=-47/862, 10-11=-47/862, 9-10=-47/862, 5-9=-47/862

WEBS 4-10=0/311

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=1.33 plate grip DOL=1.33
- 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 91 lb uplift at ioint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



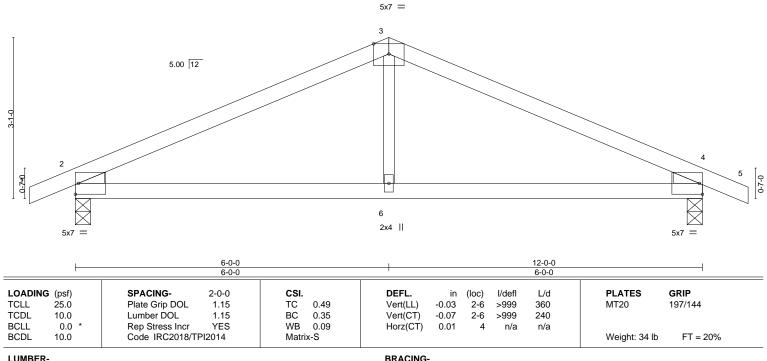


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 64 RR 141823713 D3 400374 COMMON Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:37 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-fU9XDHb_Mo_IEhF1Ku1ZrAoTbcE7J99iKuGWDrz2QcC 0-10-8 6-0-0 6-0-0 0-10-8

Scale = 1:22.0



TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=50(LC 8) 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.

2-3=-782/88, 3-4=-782/87 TOP CHORD **BOT CHORD** 2-6=-33/629, 4-6=-33/629

WEBS 3-6=0/283

- 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=1.33 plate grip DOL=1.33
- 3) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



Structural wood sheathing directly applied or 5-6-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing

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



Job Truss Truss Type Qty Ply Lot 64 RR 141823714 400374 G1 HIP GIRDER 3 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:39 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

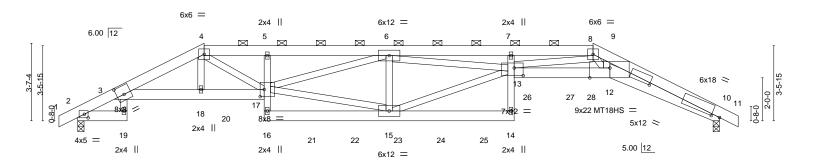
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (6-0-0 max.): 4-8.

6-0-0 oc bracing: 2-19.

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-btGldzdEuQE?U_PPSI41wbtnyQuFnuA?nCldlkz2QcA 20-3-8 23-11-8 24-8-14 29-10-0 30-8-8 0-10-8 3-7-0 2-9-8 5-9-12 5-9-12 3-8-0 0-9-6 5-1-2

Scale = 1:53.6



	2-3-8	5-10-8	8-8-0	14-5-12		-3-8		+	24-8-14	29-10-0	
	2-3-8	3-7-0	2-9-8	5-9-12	5-9	9-12			4-5-7	5-1-2	<u> </u>
Plate Offse	ets (X,Y)	[2:0-2-2,0-2-0], [3:0-4-0	0,0-4-12], [10:3	-7-1,0-1-11], [10:0-4-11,0-0-	12], [12:0-11-4,E	dge], [13	3:0-5-0,	0-4-4], [1	7:0-2-4,0-4-0	0]	
LOADING	(nsf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.52	13	>681	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.89	13	>396	240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.53	10	n/a	n/a		
BCDL	10.0	Code IRC2018	TPI2014	Matrix-S	Wind(LL)	0.38	13	>937	240	Weight: 604 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x6 SP 2400F 2.0E *Except*

1-4: 2x6 SP DSS

BOT CHORD 2x6 SP 2400F 2.0E *Except*

10-12: 2x8 SP DSS **WEBS** 2x4 SPF No.2

REACTIONS. 2=0-3-8, 10=0-3-8 (size)

Max Horz 2=59(LC 8)

Max Uplift 2=-488(LC 5), 10=-490(LC 4) Max Grav 2=3022(LC 1), 10=2989(LC 1)

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

TOP CHORD 2-3=-1672/303, 3-4=-8408/1507, 4-5=-9428/1710, 5-6=-9211/1676, 6-7=-17286/3063,

7-8=-18213/3214, 8-9=-13259/2345, 9-10=-17460/3025

BOT CHORD 3-18=-1370/7771, 17-18=-1353/7675, 15-16=-77/461, 14-15=-76/451, 12-13=-2419/14141,

10-12=-2777/16225

WEBS 3-19=-59/432, 16-17=-9/255, 5-17=-123/252, 13-14=-17/310, 7-13=-78/798,

4-18=-240/1376, 4-17=-442/2288, 15-17=-1345/7781, 6-17=-244/1174, 6-15=-3071/652, 13-15=-1402/8120, 6-13=-1646/9300, 8-13=-805/4343, 8-12=-1052/248, 9-12=-1289/7361

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

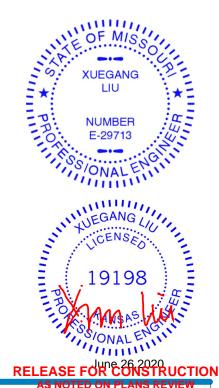
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered 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 arip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=488, 10=490.

Continued on page 2





MINISTRATION

IMIT, MISSOURI

MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 64 RR	
	04					141823714
400374	G1	HIP GIRDER	1	3	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:39 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-btGldzdEuQE?U_PPSI41wbtnyQuFnuA?nCldlkz2QcA

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 592 lb down and 192 lb up at 5-10-8, 227 lb down and 45 lb up at 6-11-0, 227 lb down and 43 lb up at 8-9-12, 227 lb down and 43 lb up at 10-11-0, 227 lb down and 43 lb up at 12-11-0, 227 lb down and 43 lb up at 14-11-0, 227 lb down and 43 lb up at 16-11-0, 227 lb down and 43 lb up at 18-11-0, 227 lb down and 49 lb up at 20-11-0, and 227 lb down and 49 lb up at 22-11-0, and 572 lb down and 184 lb up at 23-10-12 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, 4-8=-70, 8-11=-70, 2-19=-20, 3-17=-20, 14-16=-20, 12-13=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 17=-227(F) 18=-592(F) 20=-227(F) 21=-227(F) 22=-227(F) 23=-227(F) 24=-227(F) 25=-227(F) 26=-227(F) 27=-227(F) 28=-572(F)

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Lot 64 RR 141823715 400374 G2 Hip Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:40 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-33qgrJesfjMs58_b?0bGTpQv6q7_WJz90sUAqAz2Qc9 21-11-8 29-10-0 30-8-8 0-10-8 19-4-6 24-8-14 2-3-8

5-4-3

2-7-2

2-9-6

Structural wood sheathing directly applied or 2-4-0 oc purlins, except

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (3-10-7 max.): 4-8.

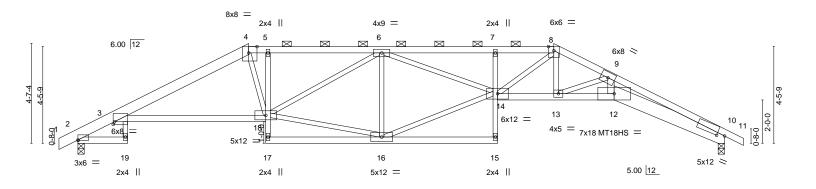
6-0-0 oc bracing: 2-19

2-2-0 oc bracing: 12-13.

5-1-2

5-4-3

Scale = 1:53.2



2-3-8	8-8-0	14-0-3	19-4-6	21-11-8	24-8-14	29-10-0	
2-3-8	6-4-8	5-4-3	5-4-3	2-7-2	2-9-6	5-1-2	
Plate Offsets (X,Y)	[2:0-0-0,0-0-3], [3:0-0-13,0-1-8], [4:0-	4-10,Edge], [10:0-4-3,0-1-5]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.80 BC 0.92 WB 0.85 Matrix-S	Vert(CT) -0.86 Horz(CT) 0.71	oc) I/defl 15 >744 15 >414 10 n/a 15 >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 134 lb	GRIP 197/144 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except* 1-4: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF 2400F 2.0E *Except*

5-17,7-15: 2x3 SPF No.2, 10-12: 2x8 SP DSS **WEBS**

2x3 SPF No.2 *Except* 9-12: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=79(LC 8)

Max Uplift 2=-118(LC 8), 10=-124(LC 9) Max Grav 2=1412(LC 1), 10=1402(LC 1)

5-7-0

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

TOP CHORD 2-3=-778/88, 3-4=-2742/320, 4-5=-2585/334, 5-6=-2569/336, 6-7=-4080/485,

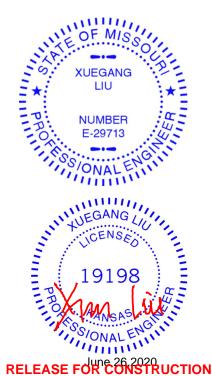
7-8=-4086/483, 8-9=-3888/402, 9-10=-6992/597

BOT CHORD 3-18=-268/2495, 7-14=-321/129, 13-14=-264/3465, 12-13=-445/5591, 10-12=-515/6446 4-18=-141/556, 16-18=-254/2375, 6-16=-1230/228, 14-16=-287/2485, 6-14=-180/1824, WFBS

8-14=-201/893, 9-12=-143/2425, 8-13=-44/958, 9-13=-2234/216

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) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 10=124,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MINISTRATION IMIT, MISSOURI MiTek

16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823716 400374 G3 Hip Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:41 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-XFO22ffVQ1UjjIZoZj6V00z3EDUIFn8IFWEkMcz2Qc8 30-8-8 0-10-8

7-5-14

19-11-8

2-7-2

24-8-14

4-9-6

Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-3-3 max.): 4-6.

7-11

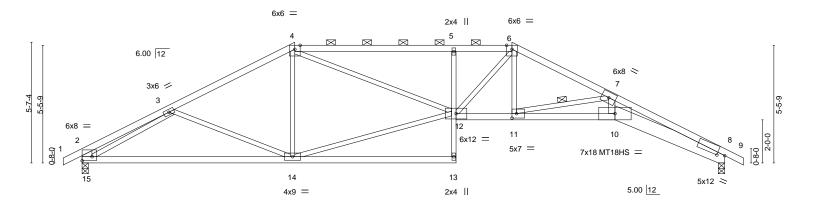
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

Scale = 1:53.5

29-10-0

5-1-2



		9-10-8	17-4	-6	19-11-8	24-8-14	29-10-0	
	1	9-10-8	7-5-	14	2-7-2	4-9-6	5-1-2	ı
Plate Offse	ets (X,Y)	[2:Edge,0-2-4], [8:0-4-3,0-1-5], [11:0-2-8	3,0-2-8]					
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.83	DEFL. Vert(LL)	in (loc) -0.47 10-11	l/defl L/d >750 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.88 WB 0.79	Vert(CT) Horz(CT)	-0.85 10-11 0.51 8	>415 240 n/a n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.27 10-11	>999 240	Weight: 124 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

-0-10-8 0-10-8

4-1-14

TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD

2x4 SPF No.2 *Except*

5-13: 2x3 SPF No.2, 10-12: 2x4 SPF 2400F 2.0E, 8-10: 2x8 SP DSS

9-10-8

5-8-10

2x3 SPF No.2 *Except* **WEBS**

7-10: 2x4 SPF No.2, 2-15: 2x6 SPF No.2

REACTIONS. (size) 8=0-3-8, 15=0-3-8

Max Horz 15=-88(LC 13)

Max Uplift 8=-147(LC 9), 15=-148(LC 8) Max Grav 8=1397(LC 1), 15=1403(LC 1)

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

TOP CHORD 2-3=-645/7, 3-4=-1977/166, 4-5=-3048/287, 5-6=-3038/280, 6-7=-3106/218,

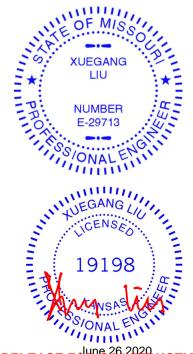
7-8=-7135/430, 2-15=-486/66

14-15=-251/1836, 5-12=-518/207, 11-12=-96/2735, 10-11=-285/5707, 8-10=-332/6587 **BOT CHORD WEBS** 12-14=-116/1700, 4-12=-183/1475, 6-12=-183/606, 6-11=-23/799, 7-11=-3015/342,

7-10=-69/2529, 3-15=-1556/252

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 arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=147 15=148
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



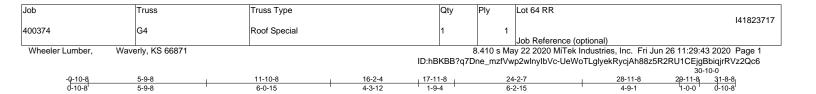


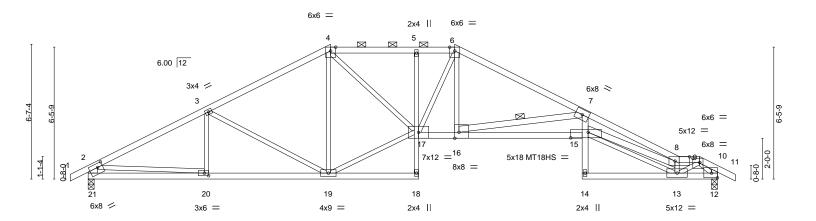
IMIT, MISSOURI

MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017



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





 	5-9-8 5-9-8	11-10-1 6-0-15		16-2-4 4-3-12		+		24-2-7 6-2-15		28-11-8 4-9-1	30-10-0 1-10-8
Plate Offsets (X,Y)	[8:0-8-8,0-2-8], [9:0-4-	0,0-2-8], [10:Edge	e,0-2-12], [15:0)-10-4,0-3-4],	[16:0-2-8,Edge], [20:0-2	2-8,0-1-	·8], [21:0·	3-0,0-2-4]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018	1.15 YES	BC (0.66 0.69 0.89 S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.47 -0.84 0.45 0.30	(loc) 15 15 12 15	I/defl >771 >433 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 135 lb	GRIP 197/144 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

Structural wood sheathing directly applied or 2-5-4 oc purlins,

7-16

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

except end verticals, and 2-0-0 oc purlins (3-4-14 max.): 4-6, 8-9.

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

6-8: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 5-18: 2x3 SPF No.2, 15-17: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

7-14: 2x4 SPF 2100F 1.8E, 7-16,8-15,10-12: 2x4 SPF No.2

2-21: 2x6 SPF No.2

REACTIONS. (size) 21=0-3-8, 12=0-3-8

Max Horz 21=-99(LC 6)

Max Uplift 21=-168(LC 8), 12=-179(LC 9) Max Grav 21=1448(LC 1), 12=1440(LC 1)

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

TOP CHORD 2-3=-2291/231, 3-4=-1888/191, 4-5=-2483/188, 5-6=-2481/187, 6-7=-2810/189,

7-8=-6330/610, 8-9=-2867/300, 9-10=-363/55, 2-21=-1383/198, 10-12=-360/75

BOT CHORD 20-21=-185/541, 19-20=-224/1970, 5-17=-277/108, 16-17=-9/2439, 15-16=-518/6251,

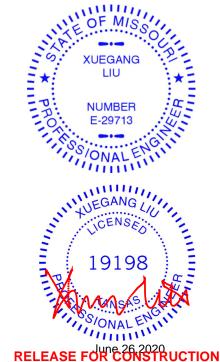
12-13=-105/1191

WEBS 7-15=-108/1943, 3-19=-442/186, 4-19=-417/58, 17-19=-69/1742, 4-17=-39/1232, 6-17=-124/291, 6-16=-16/818, 7-16=-3849/559, 13-15=-239/2579, 8-15=-241/3131,

8-13=-2234/284, 9-13=-207/2073, 2-20=-39/1434, 9-12=-1385/128

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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) except (jt=lb) 21=168, 12=179.
- 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.



0-10-8

Scale = 1:56.4



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle

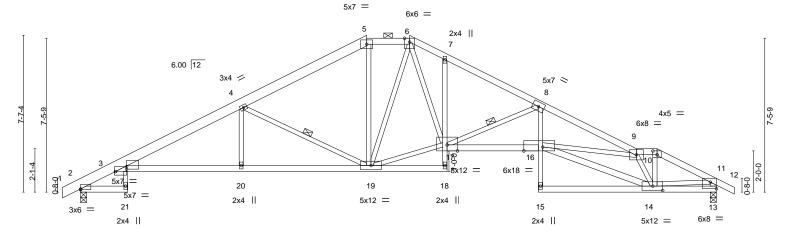


Job Truss Truss Type Qty Lot 64 RR 141823718 400374 G5 Roof Special Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 14:57:00 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnyIbVc-svupQ_6LzNI7vvd9Dr9PffeoFSx6EaKCbHxSR7z2NZn -0-10-8 0-10-8 2-3-8 7-9-9 13-10-8 15-11-8 17-9-5 22-2-7 26-11-8 27-11-8 30-10-0 31-8-8 0-10-8 2-3-8 5-6-1 6-0-15 2-1-0 1-9-13 4-5-2 4-9-1 2-10-8

Scale = 1:55.9



<u>2-3</u> 2-3		13-10-8 6-0-15	+ 15-11-8 + 17-9-5 2-1-0 + 1-9-13	22-2-7 4-5-2	26-11-8 4-9-1		30-10-0 2-10-8
Plate Offsets (X,Y)	[2:0-0-0,0-0-7], [3:0-6-8,0-2-14], [3	:0-6-8,0-1-6], [10:0-2-8,0-2-4],	[13:Edge,0-3-13], [14:	:0-5-12,0-2-8], [16:0-1	1-0,Edge]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.89 BC 0.68 WB 0.74 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/defl 0.35 16-17 >999 0.65 16-17 >564 0.52 13 n/a 0.22 3-20 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 149 lb	GRIP 197/144 FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD

1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x3 SPF No.2 *Except* 2-21,13-15: 2x4 SPF No.2, 3-18,16-17: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

14-16,11-13: 2x4 SPF No.2

REACTIONS. (lb/size) 2=1457/0-3-8, 13=1447/0-3-8

Max Horz 2=125(LC 8)

Max Uplift 2=-177(LC 8), 13=-193(LC 9)

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

TOP CHORD 2-3=-811/154, 3-4=-2963/336, 4-5=-1999/219, 5-6=-1691/235, 6-7=-2585/313, 7-8=-2674/249, 8-9=-4787/457, 9-10=-2103/261, 10-11=-2207/254, 11-13=-1391/198

BOT CHORD 3-20=-327/2708, 19-20=-327/2708, 16-17=-283/4261, 8-16=-72/1493, 13-14=-56/371

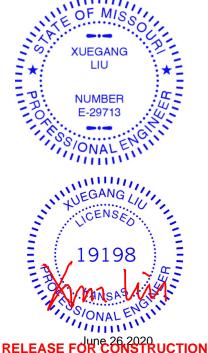
4-20=0/290, 4-19=-1164/299, 5-19=-34/585, 6-19=-546/68, 17-19=-33/1826, WEBS

6-17=-200/1558, 8-17=-2124/311, 14-16=-312/3030, 9-16=-48/1373, 9-14=-2346/303,

10-14=-83/925, 11-14=-122/1558

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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2 and 193 lb uplift at joint 13.
- 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.



Structural wood sheathing directly applied, except end verticals, and

4-19, 8-17

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (4-0-4 max.): 5-6, 9-10.

6-0-0 oc bracing: 2-21.

1 Row at midpt



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



Job Truss Truss Type Qty Lot 64 RR 141823719 400374 Н1 Roof Special Girder 1 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:45 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Q1eZu0i?UG?9CvtZoZARAs7lBrsYBa9uA8CxVNz2Qc4

Structural wood sheathing directly applied or 6-0-0 oc purlins,

5-16, 7-14

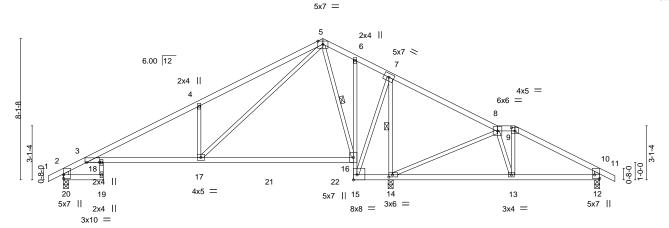
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.

Rigid ceiling directly applied or 3-7-5 oc bracing.

1 Row at midpt

24-11-8 25-11-8 1-0-0 30-10-0 31-8-8 0-10-8 -0-10-8 2-3-8 0-10-8 2-3-8 16-8-0 18-9-12 5-6-1 7-1-7 1-9-0 2-1-12 6-1-12 4-10-8

Scale = 1:66.2



		_ 2-3-8	3-7-4	. 14	-11-0	16-8-0	18-9-12		25-11-8		30-10-0	
		2-3-8 6	-3-12	['] 6	-3-12	1-9-0	2-1-12		7-1-12	ı	4-10-8	
Plate Offse	ets (X,Y)	[3:0-9-0,0-0-3], [9:0-2-8,0)-2-4], [12:Edge,	,0-3-8], [14:0	-2-8,0-1-8]	, [15:Edge,0-3	3-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(I	L) -0.26	17-18	>871	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(0	CT) -0.45	17-18	>498	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT) 0.19	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-S	Wind	(LL) 0.26	17-18	>850	240	Weight: 119 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

1-5: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF No.2 *Except*

3-16: 2x4 SPF 2100F 1.8E, 6-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-20,10-12: 2x4 SPF No.2

REACTIONS. (size) 20=0-3-8, 12=0-3-8, 14=0-3-8

Max Horz 20=125(LC 12)

Max Uplift 20=-141(LC 8), 12=-197(LC 9), 14=-130(LC 8) Max Grav 20=722(LC 23), 12=421(LC 22), 14=2042(LC 2)

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

TOP CHORD 2-3=-340/167, 3-4=-1035/224, 4-5=-1120/408, 5-6=0/535, 6-7=0/473, 7-8=0/896,

8-9=-256/274, 9-10=-368/268, 2-20=-750/183, 10-12=-383/216

3-18=-223/937, 17-18=-223/937, 15-16=-1123/73, 14-15=-677/87, 13-14=-317/215,

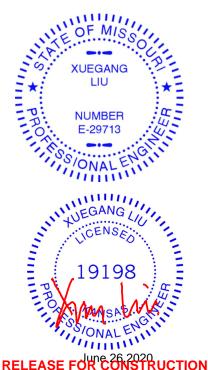
12-13=-190/256

WEBS 4-17=-618/326, 5-17=-355/1379, 5-16=-1021/159, 7-15=-58/1071, 7-14=-1475/162,

8-14=-606/185, 8-13=0/429

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=141, 12=197, 14=130.
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823720 400374 H2 Roof Special Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:47 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

Structural wood sheathing directly applied or 6-0-0 oc purlins,

5-15, 7-13

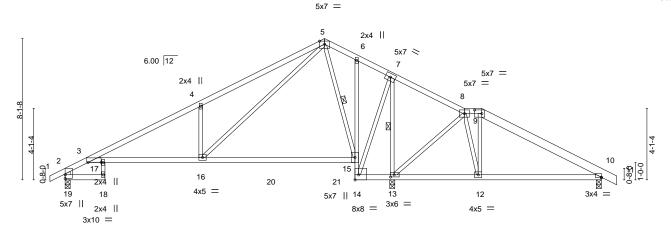
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.

Rigid ceiling directly applied or 3-4-13 oc bracing.

1 Row at midpt

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-MPlJJijF0tFtRD0yw_DvFHC7MeYlfUjBdRh2aGz2Qc2 23-11-8 1-0-0 31-8-8 0-10-8 -0-10-8 2-3-8 0-10-8 2-3-8 16-8-0 | 18-9-12 22-11-8 30-10-0 5-6-1 7-1-7 1-9-0 2-1-12 4-1-12 6-10-8

Scale = 1:66.2



	2-3-8 7-9-9	14-11-0	16-8-0 18-9-12 23-11-8	30-10-0	
	2-3-8 5-6-1	7-1-7	'1-9-0 '2-1-12 ' 5-1-12	6-10-8	
Plate Offsets (X,Y)	[3:0-9-0,0-0-3], [9:0-5-0,0-2-8], [10:0-0)-0,0-0-7], [13:0-2-8,0-1-8 <u>],</u>	[14:Edge,0-3-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.26 16-17 >878	360 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.45 16-17 >501	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.18 13 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.26 16-17 >858	240 Weight: 126 II	b FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-5: 2x4 SPF 2100F 1.8E, 9-11: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

3-15: 2x4 SPF 2100F 1.8E, 6-14: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-19: 2x4 SPF No.2

REACTIONS. (size) 19=0-3-8, 10=0-3-8, 13=0-3-8

Max Horz 19=-136(LC 13)

Max Uplift 19=-133(LC 8), 10=-206(LC 9), 13=-149(LC 8) Max Grav 19=717(LC 2), 10=427(LC 22), 13=2053(LC 2)

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

TOP CHORD $2-3=-329/180,\ 3-4=-1021/205,\ 4-5=-1105/390,\ 5-6=0/557,\ 6-7=0/513,\ 7-8=-1/928,$

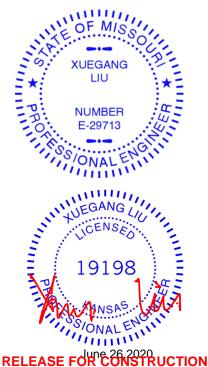
8-9=-134/359, 9-10=-243/454, 2-19=-744/175

BOT CHORD 3-17=-211/919, 16-17=-211/919, 14-15=-1183/109, 13-14=-722/105, 12-13=-457/90, 10-12=-333/137

WEBS 4-16=-618/326, 5-16=-353/1375, 5-15=-1020/171, 7-14=-74/1169, 7-13=-1472/142,

8-13=-520/147, 8-12=-1/626, 9-12=-401/83

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=133, 10=206, 13=149,
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823721 400374 НЗ Roof Special Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:48 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-qcJhW2kunBNk3Nb8Thk8oVllh2u7Ox3Ks5Qc6iz2Qc1

Structural wood sheathing directly applied or 5-11-3 oc purlins,

5-17, 7-15

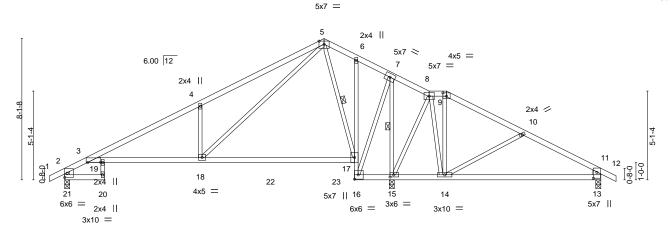
except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 8-9.

Rigid ceiling directly applied or 3-7-5 oc bracing.

1 Row at midpt

16-8-0 18-9-12 20-11-8 21-11-8 1-9-0 2-1-12 2-1-12 1-0-0 30-10-0

Scale = 1:66.2



	2-3-8 7-9-9 2-3-8 5-6-1	14-11-0 7-1-7	16-8-0 18-9-12 21-11-8 1-9-0 2-1-12 3-1-12	30-10-0 8-10-8	——
Plate Offsets (X,Y)	[3:0-9-0,0-0-3], [9:0-2-8,0-2-4], [13:0-4	1-1,0-2-8], [15:0-2-8,0-1-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.69 BC 0.71 WB 0.85 Matrix-S	Vert(LL) -0.26 18-19 : Vert(CT) -0.46 18-19 : Horz(CT) 0.21 15	>859 360 >489 240 n/a n/a	PLATES GRIP MT20 197/144 Weight: 125 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

3-17: 2x4 SPF 2100F 1.8E, 6-16: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-21: 2x4 SPF No.2, 11-13: 2x6 SPF No.2

REACTIONS. (size) 21=0-3-8, 13=0-3-8, 15=0-3-8

Max Horz 21=124(LC 12)

Max Uplift 21=-131(LC 8), 13=-180(LC 9), 15=-154(LC 8) Max Grav 21=739(LC 23), 13=426(LC 22), 15=2009(LC 2)

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

TOP CHORD 2-3=-346/161, 3-4=-1081/199, 4-5=-1166/383, 5-6=0/481, 6-7=0/446, 7-8=0/843,

8-9=0/431, 9-10=-38/483, 10-11=-350/287, 2-21=-759/172, 11-13=-343/225

3-19=-200/971, 18-19=-200/971, 16-17=-1164/124, 15-16=-678/114, 14-15=-478/115,

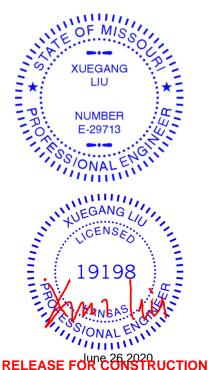
13-14=-200/259

WEBS 4-18=-619/325, 5-18=-351/1386, 5-17=-974/172, 7-16=-72/1190, 7-15=-1405/108,

8-15=-545/102, 8-14=0/720, 9-14=-295/49, 10-14=-393/162

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=131, 13=180, 15=154,
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823722 400374 Н4 Roof Special Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:49 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

-0-10-8 2-3-8 0-10-8 2-3-8

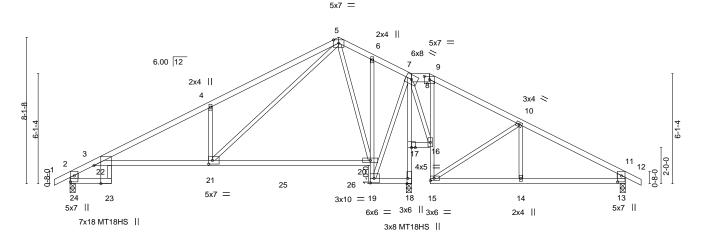
Structural wood sheathing directly applied or 5-3-13 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied or 2-7-15 oc bracing.

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-lot4kOlWYUVbgXAK1PFNKilV3SCD7OnT5lA9e9z2Qc0 16-8-0 18-11-8 19-11-8 1-9-0 2-3-8 1-0-0 30-10-0 31-8-8 0-10-8 7-9-9 5-6-1 25-0-6 7-1-7 5-0-14 5-9-10

Scale: 3/16"=1



		2-3-8 7-9-9	14-11-0	16-8-0 18-11-8 20-0-0	25-0-6	30-10-0	
		2-3-8 5-6-1	7-1-7	' 1-9-0 ' 2-3-8 1-0-8'	5-0-6	5-9-10	
Plate Offse	ets (X,Y)	[8:0-3-8,0-2-3], [13:0-4-1,0-2-8], [18	0-3-8,Edge], [21:0-2-8,0-2-8]	, [23:1-0-0,Edge], [24:0-4-1,0-2-	8]		
LOADING	(nof)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP	
	(I -)			(/			
TCLL	25.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.26 20-21	>845 360	MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.46 21-22	>488 240	MT18HS 197/144	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.32 18	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.25 21-22	>883 240	Weight: 125 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-5: 2x4 SPF 2400F 2.0E, 7-8: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

22-23,6-19,7-18,9-15: 2x3 SPF No.2, 3-20: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 2-24,11-13: 2x6 SPF No.2

REACTIONS. (size) 24=0-3-8, 18=0-3-8, 13=0-3-8

Max Horz 24=123(LC 12)

Max Uplift 24=-168(LC 8), 18=-62(LC 8), 13=-177(LC 9) Max Grav 24=919(LC 2), 18=1535(LC 2), 13=567(LC 22)

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

TOP CHORD 2-3=-667/136, 3-4=-1551/292, 4-5=-1637/475, 5-6=-198/258, 6-7=-255/222,

10-11=-601/239, 2-24=-969/216, 11-13=-510/206

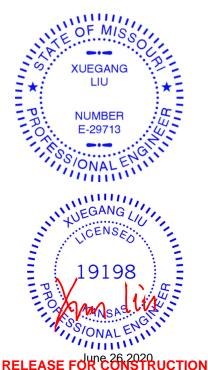
BOT CHORD 23-24=-105/326, 3-22=-178/1083, 21-22=-283/1409, 20-21=-20/355, 19-20=-657/34,

17-18=-1590/69, 7-17=-1404/75, 15-16=-58/357, 14-15=-131/462, 13-14=-131/462

WEBS 4-21=-619/324, 5-21=-365/1459, 5-20=-587/96, 7-19=-17/842, 7-16=-58/366,

10-15=-514/142

- 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 24=168, 13=177,
- 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.





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





Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-FB?q94mm36llwqKj9qHrP7NpnFx6bl1mY3fGj1z2Qc_

Structural wood sheathing directly applied or 4-2-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

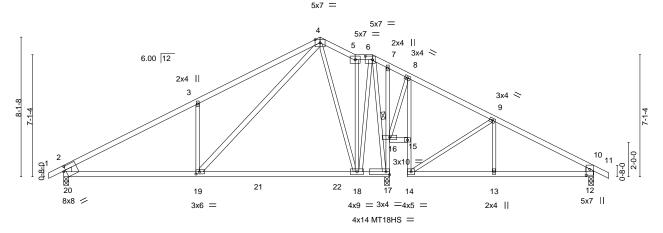
6-17

5-3-11 oc bracing: 16-17.

1 Row at midpt

18-11-8 16-11-8 17-11-8 20-0-0 2-0-8 1-0-0 1-0-0 1-0-8 0-10-8

Scale = 1:67.0



		7-9-9	·	7-1-7	' 2-0-8 ' 1-10	-4 '1-0-8' 0-1-12	5-0-8		5-9-9		
Plate Offsets (X,Y) [6:0-5-0,0-2-8], [12:0-4-1,0-2-8], [19:0-2-8,0-1-8], [20:0-1-10,0-3-4]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.27 18-19	>835	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.44 18-19	>513	240	MT18HS	197/144	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.02 17	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-S	Wind(LL)	0.03 19	>999	240	Weight: 135 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

18-11-8 18-9-12 20-0-0

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-17,8-14: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

4-19: 2x4 SPF No.2, 2-20,10-12: 2x6 SP DSS

REACTIONS. 20=0-3-8, 12=0-3-8, 17=0-3-8 (size)

Max Horz 20=123(LC 12)

Max Uplift 20=-172(LC 8), 12=-177(LC 9), 17=-50(LC 8) Max Grav 20=918(LC 2), 12=569(LC 22), 17=1523(LC 2)

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

TOP CHORD 2-3=-1226/224, 3-4=-1221/405, 4-5=-202/258, 6-7=-25/256, 7-8=-4/252, 9-10=-608/241, 2-20=-818/215, 10-12=-512/206

BOT CHORD 19-20=-220/1035, 18-19=-23/346, 16-17=-706/161, 14-15=-58/359, 8-15=-4/271,

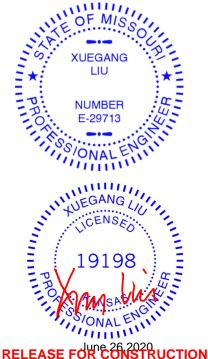
13-14=-132/472, 12-13=-132/472

WEBS 3-19=-533/320, 4-19=-293/1023, 4-18=-554/95, 6-17=-1002/0, 8-16=-374/135,

9-14=-513/142, 6-18=-29/980

NOTES-

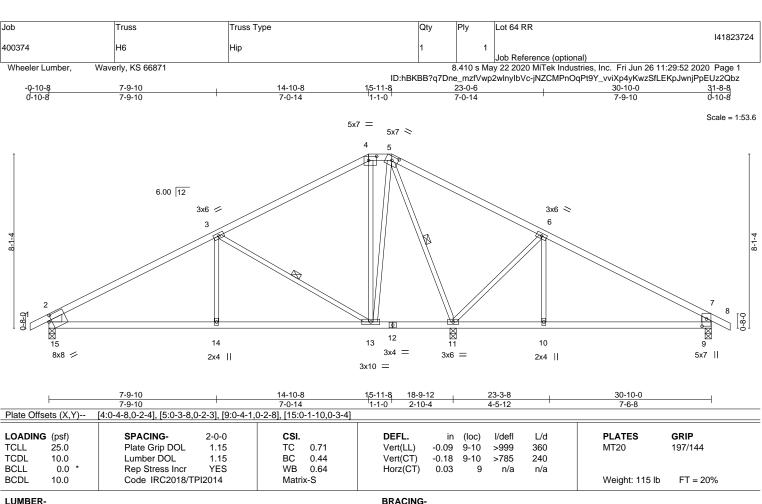
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 20=172, 12=177,
- 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.





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





TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2-15: 2x8 SP DSS, 7-9: 2x6 SPF No.2

REACTIONS. (size) 15=0-3-8, 11=0-3-8, 9=0-3-8 Max Horz 15=-123(LC 13)

Max Uplift 15=-179(LC 8), 11=-36(LC 8), 9=-174(LC 9) Max Grav 15=878(LC 1), 11=1461(LC 1), 9=583(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1115/236, 3-4=-428/207, 4-5=-271/213, 5-6=-37/301, 6-7=-553/235, TOP CHORD

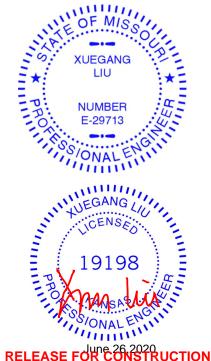
2-15=-799/223, 7-9=-520/222

BOT CHORD 14-15=-230/888, 13-14=-230/888, 10-11=-107/397, 9-10=-107/397

WEBS 3-14=0/310, 3-13=-720/239, 5-13=-101/711, 5-11=-986/29, 6-11=-685/227, 6-10=0/292

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=1.33 plate grip DOL=1.33
- 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) 11 except (jt=lb) 15=179, 9=174.
- 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.



Structural wood sheathing directly applied or 4-7-14 oc purlins,

3-13, 5-11

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc bracing

1 Row at midpt

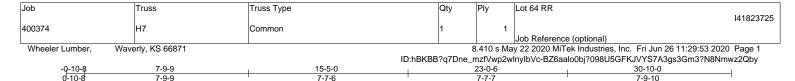


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

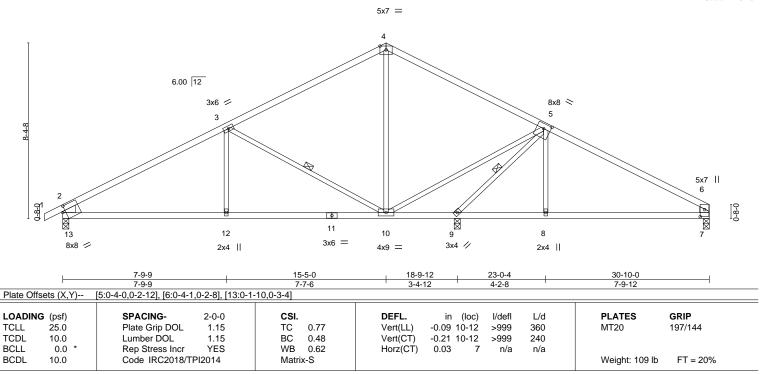
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

DMINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017



Scale = 1:54.9



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2-13: 2x8 SP DSS, 6-7: 2x6 SPF No.2

REACTIONS. (size) 13=0-3-8, 9=0-3-8, 7=0-3-8

Max Horz 13=136(LC 12)

Max Uplift 13=-171(LC 8), 9=-79(LC 9), 7=-121(LC 9) Max Grav 13=929(LC 1), 9=1316(LC 1), 7=565(LC 1)

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

 $2-3=-1222/225,\ 3-4=-501/181,\ 4-5=-505/194,\ 5-6=-672/184,\ 2-13=-848/215,$ TOP CHORD

6-7=-488/166

BOT CHORD 12-13=-236/983, 10-12=-236/983, 9-10=-733/51, 8-9=-85/506, 7-8=-84/507 WEBS 3-12=0/319, 3-10=-759/256, 5-10=-72/1225, 5-9=-1743/141, 5-8=0/274

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=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb)
- 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.



Structural wood sheathing directly applied or 4-2-15 oc purlins,

3-10, 5-9

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

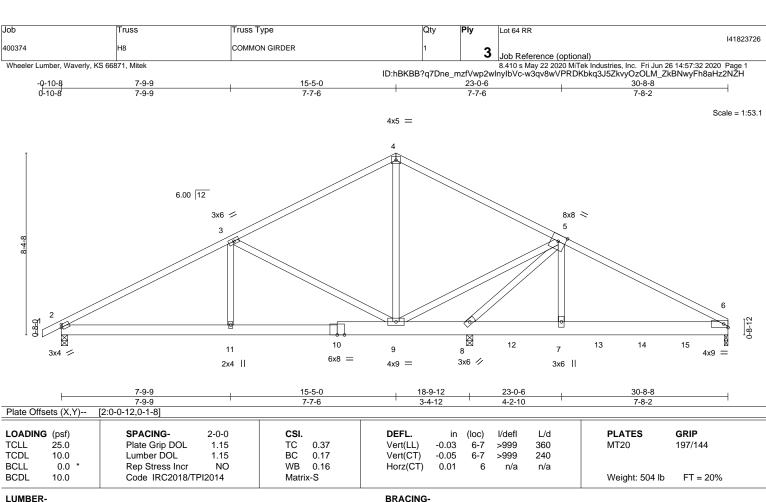
1 Row at midpt

6-0-0 oc bracing: 9-10.



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





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 6-10: 2x8 SP DSS

WFBS 2x4 SPF No.2

REACTIONS. (lb/size) 6=1631/0-2-0, 2=829/0-3-8, 8=8504/0-3-8 (req. 0-4-7)

Max Horz 2=94(LC 5)

Max Uplift 6=-280(LC 9), 2=-76(LC 27), 8=-498(LC 9) Max Grav 6=1631(LC 20), 2=829(LC 1), 8=8504(LC 1)

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

TOP CHORD 2-3=-1137/137, 3-4=-393/176, 4-5=-399/185, 5-6=-1897/296

BOT CHORD 2-11=-129/964, 10-11=-129/964, 9-10=-129/965, 8-9=-584/103, 8-12=-180/1527, 7-12=-180/1527, 7-13=-188/1575, 13-14=-188/1575, 14-15=-188/1575, 6-15=-188/1575

3-11=0/387, 3-9=-893/130, 4-9=-352/57, 5-9=-59/795, 5-8=-2909/392, 5-7=-305/1852

WEBS NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-7-0 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) 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.
- 7) WARNING: Required bearing size at joint(s) 8 greater than input bearing size.
- 8) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 6, 76 lb uplift at joint 2 and 498 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5393 lb down and 281 lb up at 18-8-7, 1085 lb down and 25 lb up at 20-9-4, 418 lb down and 123 lb up at 22-9-4, 418 lb down and 123 lb up at 24-9-4, and 418 lb down and 123 lb up at 26-9-4, and 418 lb down and 123 lb up at 28-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

O **XUEGANG** LIU NUMBER E-29713

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 8-9.

RELEASE FOR CONSTRUCTION

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 64 RR
400374	Н8	COMMON GIRDER	1	3	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 0200 MiTek Industries, Inc. Fri Jun 26 14:57:33 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wInylbVc-OGOIMGV1CWSSMzeVfGF8UcWZ5mKoTed3AvQi6jz2NZG

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-418(B) 8=-5393(B) 12=-1085(B) 13=-418(B) 14=-418(B) 15=-418(B)

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Lot 64 RR 141823727 400374 J3 DIAGONAL HIP GIRDER Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:08 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-FSWFjuzQ3KuuSS7_eu5rciaoG6qe4BzGSDHfoYz2Qbj 1-2-14 2-8-7 2-9-15 Scale = 1:15.7 3x4 II 3.54 12 5 2x4 0-8-0 0-2-0 2x4 || 3x6 II 7_{2x4} || 5-6-6 Plate Offsets (X,Y)--[2:0-0-0,0-1-7], [2:0-2-6,0-4-11], [3:0-7-0,0-0-15], [3:0-5-8,0-1-8] SPACING-LOADING (psf) DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.03 >999 360 MT20 197/144 6 TCDL 10.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) -0.07>914 240

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.03

n/a

except end verticals

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 5-6-6 oc purlins,

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEBS WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-9

Max Horz 2=73(LC 5)

Max Uplift 5=-47(LC 8), 2=-105(LC 4)

Max Grav 5=222(LC 1), 2=349(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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=1.33 plate grip DOL=1.33

WB

Matrix-S

0.02

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

NO

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=105
- 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 2-7-3, and 2 lb down at 2-7-3 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: 1-4=-70, 2-7=-20, 5-6=-20



FT = 20%

Weight: 18 lb



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle



Job Truss Truss Type Qty Lot 64 RR 141823728 400374 J4 JACK-OPEN Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:11 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-f1COLv0JMFGTJvsZK1eYDLCMPJtNHYzj8AVJPtz2Qbg 2-0-0 0-10-8 2-0-0 Scale = 1:14.1 5.00 12 1-10-9 2 6 3x4 || 0-8-0 0-2-0 ⁷ 2x4 || 4x5 = 2-0-0 4-0-0 2-0-0 Plate Offsets (X,Y)--[6:0-2-0,0-0-8] SPACING-CSI. L/d **PLATES** GRIP LOADING (psf) 2-0-0 DEFL. (loc) I/defI Plate Grip DOL **TCLL** 25.0 1.15 TC 0.15 Vert(LL) -0.01 6 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.02 6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a 5 n/a Code IRC2018/TPI2014 FT = 20% BCDL 10.0 Matrix-R Weight: 13 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins. BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

6-7: 2x3 SPF No.2

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=81(LC 8)

Max Uplift 4=-46(LC 8), 2=-31(LC 8)

Max Grav 4=101(LC 1), 2=264(LC 1), 5=82(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=1.33 plate grip DOL=1.33
- 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.





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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823729 400374 J5 JACK-OPEN Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:14 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-3cuW_x2BfAe2ANa8?9CFrzqu8XxoUvi9q8k_0Cz2Qbd 1-10-15 0-10-8 1-10-15 Scale = 1:9.8 5.00 12 1-4-9 2 1-0-2 0-7-0 4x5 = 1-10-15 1-10-15

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 >999 MT20 197/144 0.05 360 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 2-4 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=47(LC 8)

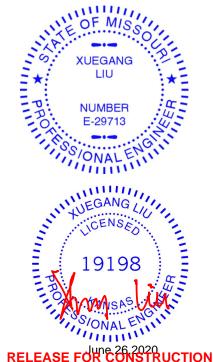
Max Uplift 3=-34(LC 8), 2=-31(LC 4)

Max Grav 3=50(LC 1), 2=163(LC 1), 4=37(LC 3)

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=1.33 plate
- 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.



Structural wood sheathing directly applied or 1-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing



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



Job Truss Truss Type Qty Lot 64 RR 141823730 400374 J6 JACK-CLOSED SUPPORTE

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:14 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-3cuW_x2BfAe2ANa8?9CFrzquXXx0Uvi9q8k_0Cz2Qbd

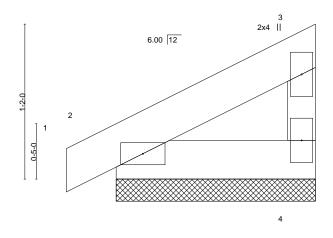
Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.

1-6-0 0-4-8 1-6-0

Scale = 1:8.7



2x4 || 2x4 =

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING- 2	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	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-P	, ,					Weight: 5 lb	FT = 20%

LUMBER-

REACTIONS.

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

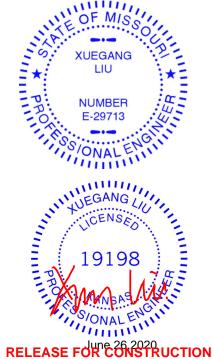
2x3 SPF No.2

4=1-6-0, 2=1-6-0 (size) Max Horz 2=35(LC 7) 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=1.33 plate
- 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.
- * 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.





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



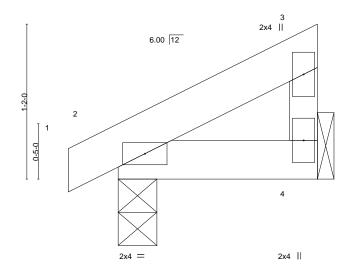
Job Truss Truss Type Qty Lot 64 RR 141823731 400374 J7 JACK-CLOSED

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:15 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-YoSvBH3qQTnuoW9KZsjUOBN3JwHGDLyl3oTXYez2Qbc

1-6-0 0-4-8 1-6-0

Scale = 1:8.7



1-6-0 CSI. DEFL. I/defI L/d (loc) Vert(LL) -0.00 TC 0.02 >999 360 ВС 0.02 Vert(CT) -0.00 >999 240

-0.00

4

n/a

except end verticals.

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

1-6-0

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

Weight: 5 lb FT = 20%

GRIP

197/144

PLATES

MT20

Structural wood sheathing directly applied or 1-6-0 oc purlins,

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

REACTIONS. 4=Mechanical, 2=0-3-8 (size)

Max Horz 2=35(LC 5) Max Uplift 4=-15(LC 8), 2=-17(LC 8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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=1.33 plate grip DOL=1.33

WB

Matrix-P

0.00

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

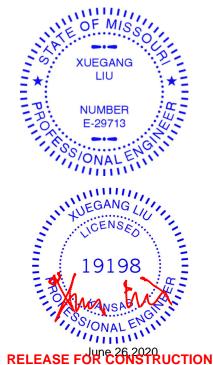
2-0-0

1.15

1.15

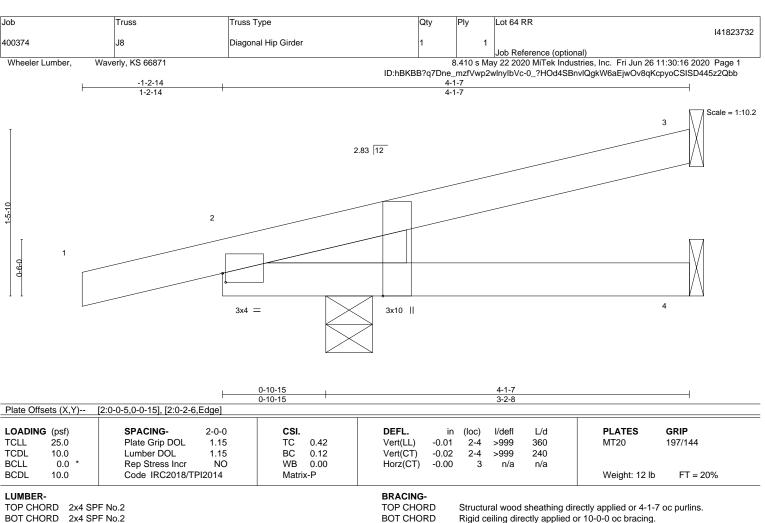
YES

- 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.



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





BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-4-15

Max Horz 2=55(LC 6)

Max Uplift 3=-52(LC 6), 2=-99(LC 6)

Max Grav 3=75(LC 1), 4=65(LC 3), 2=147(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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=1.33 plate
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 10 lb up at -1-2-14, and 29 lb down and 10 lb up at -1-2-14 on top 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

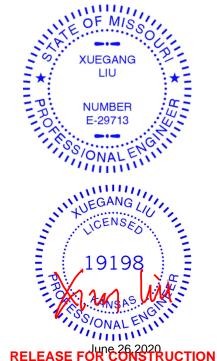
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-46(F=-23, B=-23)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-25(F=22, B=22), 2=-4(F=33, B=33)-to-3=-72(F=-1, B=-1), 2=0(F=10, B=10)-to-4=-21(F=-0, B=10)-to-4=-21(F=-0,

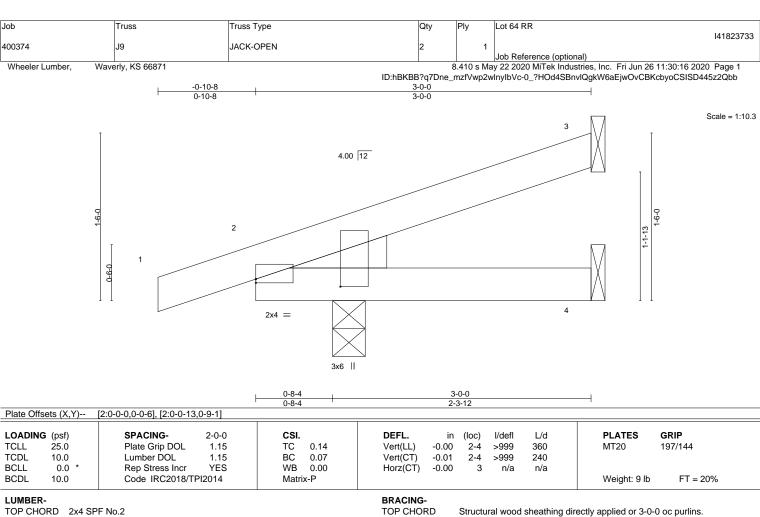




MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle





BOT CHORD

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

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8

Max Horz 2=53(LC 4)

Max Uplift 3=-46(LC 8), 2=-65(LC 4)

Max Grav 3=85(LC 1), 4=56(LC 3), 2=210(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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=1.33 plate
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823734 400374 J10 Jack-Closed Girder

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:55 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-7yEL_RpH7KFkPSdUOgMnazYXTslrXJ?MThdTroz2Qbw

Structural wood sheathing directly applied or 5-8-0 oc purlins,

Rigid ceiling directly applied or 7-4-11 oc bracing

except end verticals.

5-8-0 5-8-0

Scale = 1:26.1

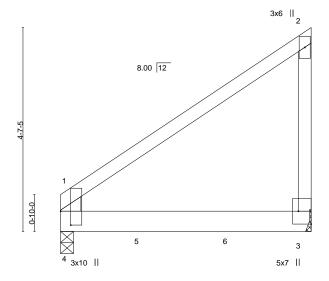


Plate Offsets (X,Y)	[3:Edge,0-3-8], [4:0-3-12,0-2-12]			
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.53 BC 0.70	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 3-4 >665 360 Vert(CT) -0.17 3-4 >364 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.00 3 n/a n/a	Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP DSS

WEBS 2x6 SPF No.2 *Except*

2-3: 2x4 SPF No.2

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

Max Horz 4=132(LC 5)

Max Uplift 4=-114(LC 8), 3=-162(LC 5) Max Grav 4=1092(LC 1), 3=1085(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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=1.33 plate grip DOL=1.33
- 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) 4=114, 3=162,
- 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) 850 lb down and 129 lb up at 1-10-6, and 850 lb down and 129 lb up at 3-10-6 on bottom chord. The design/selection of such connection device(s) is the
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

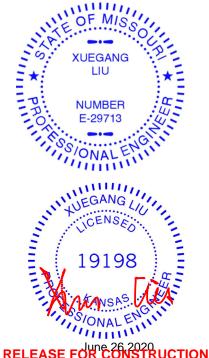
LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 3-4=-20 Concentrated Loads (lb)

Vert: 5=-850(F) 6=-850(F)





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



Job Truss Truss Type Qty Lot 64 RR 141823735 400374 J11 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:56 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-b8ojCnqvueNb0bCgxNt16A4ldGlfGmZViLN1NFz2Qbv

Structural wood sheathing directly applied or 5-8-0 oc purlins,

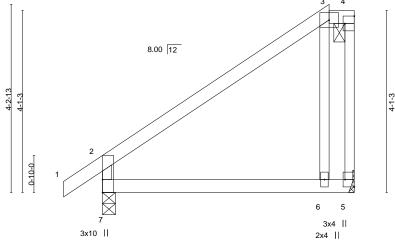
except end verticals, and 2-0-0 oc purlins: 3-4.

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

Scale = 1:25.9

-0-10-8 0-10-8

4x5 = 3x4 ||



BRACING-

TOP CHORD

BOT CHORD

Plate Of	fsets (X,Y)	[4:Edge,0-2-8], [5:Edge,0	0-2-8]			_						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.03	`6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.22	Vert(CT)	-0.07	6-7	>971	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	, ,					Weight: 22 lb	FT = 20%

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=131(LC 7)

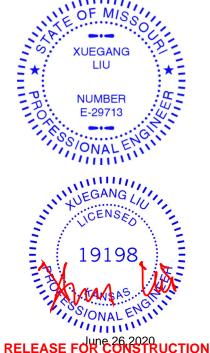
Max Uplift 7=-6(LC 8), 5=-35(LC 5) Max Grav 7=320(LC 1), 5=242(LC 13)

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

TOP CHORD 2-7=-268/38

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge Ro Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823736 400374 J12 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:57 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-3KM5P7rXfyVSelntV4OGfOdzbg70?BUfw?6awhz2Qbu -0-10-8 0-10-8 5-8-0 3-8-12 1-11-4 Scale = 1:20.2 5x7 = 2x4 || 4 8.00 12 0-10-0

BRACING-

TOP CHORD

BOT CHORD

6

2x4 ||

5

3x4 =

Structural wood sheathing directly applied or 5-8-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Plate Off	sets (X,Y)	[3:0-3-8,0-1-14]											
LOADIN	· /	SPACING-	2-0-0	CSI.	0.47	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.17 0.08	Vert(LL) Vert(CT)	-0.00 -0.01	6-7 6-7	>999 >999	360 240	MT20	197/144	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 22 lb	FT = 20%	

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=101(LC 7)

Max Uplift 7=-10(LC 8), 5=-26(LC 5) Max Grav 7=320(LC 1), 5=239(LC 1)

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

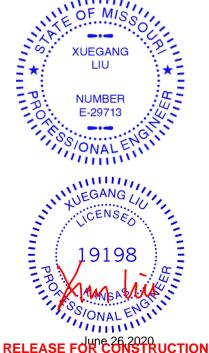
TOP CHORD 2-7=-283/37

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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.

3x10

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



Job Truss Truss Type Qty Lot 64 RR 141823737 400374 J13 Jack-Closed Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:58 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-XXwTdTs9QFdJGvM33ovVCbA6F4SpkeUo9fs7S7z2Qbt -0-10-8 0-10-8 2-4-4 Scale = 1:16.3 5x7 = 2x4 || 8.00 12 2-3-7 0-10-0 9 6 5 2x4 || 3x4 =3x10 || Plate Offsets (X,Y)--[3:0-3-8,0-1-14] SPACING-CSI. GRIP LOADING (psf) 2-0-0 DEFL. (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) -0.01 5-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) -0.025-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.08 Horz(CT) 0.00 n/a 5 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-S Weight: 21 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=89(LC 7)

Max Uplift 7=-75(LC 8), 5=-77(LC 5) Max Grav 7=364(LC 1), 5=295(LC 1)

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

TOP CHORD 2-7=-312/82, 2-3=-303/57

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=1.33 plate grip DOL=1.33
- 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.
- * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 70 lb up at 2-4-4, and 81 lb down and 67 lb up at 3-8-12 on top chord, and 27 lb down at 2-4-4, and 26 lb down at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

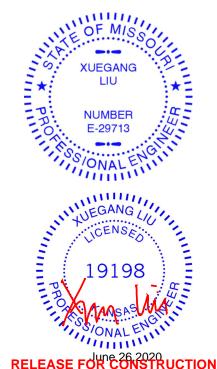
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 3=-25(B) 6=-15(B) 8=-38(B) 9=-21(B)



Structural wood sheathing directly applied or 5-8-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

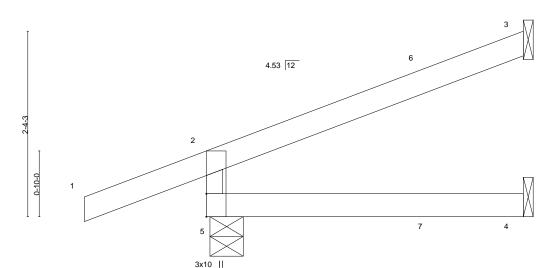
Rigid ceiling directly applied or 10-0-0 oc bracing

MINISTRATION IMIT, MISSOURI

MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823738 400374 J14 Diagonal Hip Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:59 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-0jUsqptnBZmAt3xFdVRkkpiHTUoYT6?yOJbh_az2Qbs 1-6-9 4-0-3



3-11-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in L/d **PLATES** GRIP (loc) I/defl TCLL Plate Grip DOL 1.15 Vert(LL) -0.01 >999 197/144 25.0 TC 0.21 4-5 360 MT20 4-5 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) -0.02 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 5=0-5-1, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=77(LC 4)

Max Uplift 5=-85(LC 4), 3=-58(LC 8)

Max Grav 5=314(LC 1), 3=110(LC 1), 4=72(LC 3)

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

TOP CHORD 2-5=-275/116

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=1.33 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 49 lb up at 2-10-6 on top chord, and 9 lb down at 2-10-6 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=-2(B)

NUMBER E-29713 CENSED

XUEGANG

LIU

Structural wood sheathing directly applied or 4-0-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

Scale = 1:14.6

June 26,2020 OR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823739 400374 J15 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:29:59 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-0jUsqptnBZmAt3xFdVRkkpiJTUq2T6?yOJbh_az2Qbs 2-9-3 2-9-3 -0-10-8 0-10-8 Scale = 1:12.3 5.50 12 2 1-6-3 0-7-8 3x6 2-9-3

				<u>'</u>		2-9-3				'			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	, ,					Weight: 8 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=58(LC 8)

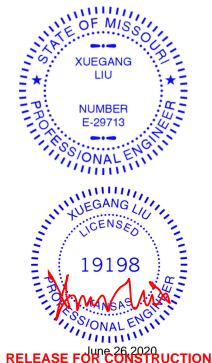
Max Uplift 5=-33(LC 8), 3=-40(LC 8)

Max Grav 5=206(LC 1), 3=70(LC 1), 4=45(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=1.33 plate
- 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.



Structural wood sheathing directly applied or 2-9-3 oc purlins,

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

except end verticals.

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



Job Truss Truss Type Qty Lot 64 RR 141823740 400374 J16 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:00 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Uv2E29tPytu1VDWRADyzH0FTnt9JCZF5czLEW0z2Qbr 3-10-8 3-10-8 0-10-8 Scale = 1:14.9 5.50 12 0-7-8 4 3x6 П 3-10-8 3-10-8

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

L/d

360

240

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

(loc)

4-5

4-5

3

-0.01

-0.02

0.01

I/defI

>999

>999

except end verticals.

n/a

PLATES

Weight: 11 lb

MT20

Structural wood sheathing directly applied or 3-10-8 oc purlins,

GRIP

197/144

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

WEBS 2x6 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=79(LC 8)

Max Uplift 5=-36(LC 8), 3=-58(LC 8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 5=250(LC 1), 3=108(LC 1), 4=66(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=1.33 plate grip DOL=1.33

CSI.

TC

ВС

WB

Matrix-R

0.17

0.11

0.00

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

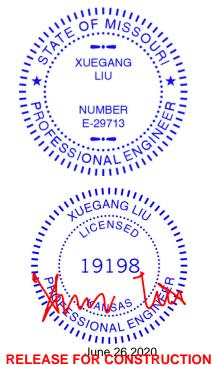
2-0-0

1.15

1.15

YES

- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823741 J17 400374 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:01 2020 Page 1 Wheeler Lumber,

Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-y6bcFUu1jA0u7N5ekwTCpEobQHPLx0VErd4o3Sz2Qbq

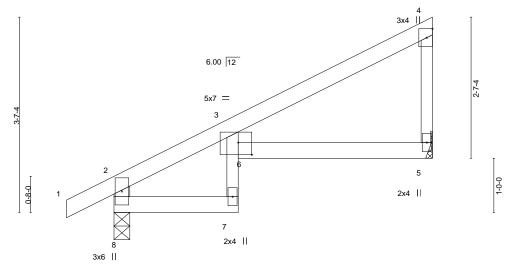
Structural wood sheathing directly applied or 5-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

-0-10-8 2-3-8 5-10-8 0-10-8

Scale = 1:21.3



5-10-8

Plate Off	Sets (X,Y)	[3:0-3-0,0-2-11]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.07 6 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.12 5-6 >576 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.06 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.05 6 >999 240 Weight: 18 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2 **WEBS** 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2

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

Max Horz 8=101(LC 5)

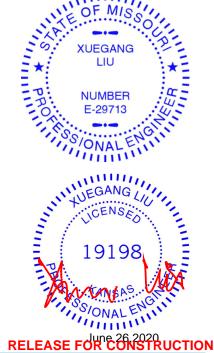
Max Uplift 8=-11(LC 8), 5=-25(LC 8) Max Grav 8=331(LC 1), 5=247(LC 1)

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

TOP CHORD 2-8=-320/30

NOTES-

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



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



Job Truss Truss Type Qty Lot 64 RR 141823742 400374 J18 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:01 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-y6bcFUu1jA0u7N5ekwTCpEoalHR1x0VErd4o3Sz2Qbq

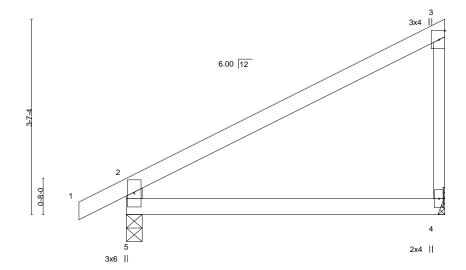
Structural wood sheathing directly applied or 5-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

5-10-8 5-10-8 0-10-8

Scale = 1:21.3



						5-10-8					<u> </u>		
LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.44	DEFL. Vert(LL)	in -0.04	(loc) 4-5	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144	
TCDL BCLL	10.0	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.27	Vert(CT) Horz(CT)	-0.09 -0.00	4-5	>754 n/a	240 n/a	W125	1077111	
BCDL	10.0	Code IRC2018/TF		Matri		Wind(LL)	0.02	4-5	>999	240	Weight: 18 lb	FT = 10%	

5-10-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

REACTIONS.

(size) 5=0-3-8, 4=Mechanical

Max Horz 5=113(LC 5)

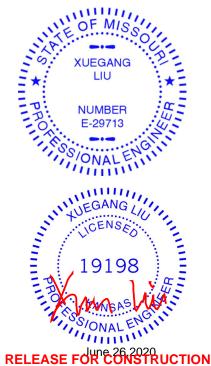
Max Uplift 5=-12(LC 8), 4=-23(LC 8) Max Grav 5=331(LC 1), 4=247(LC 1)

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

TOP CHORD 2-5=-290/53

NOTES-

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





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



Job Truss Truss Type Qty Lot 64 RR 141823743 400374 J19 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:02 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Ql9_SqvgUU8kkWgqle_RMRKq7hpVgTkO4HqLbuz2Qbp 2-3-8 2-3-8 3-9-7 0-10-8 1-5-15 Scale = 1:15.7 0-4-11 6.00 12 2x4 || 2 3 φ 2 2x4 =0-8-0 7_{2x4} ||

BRACING-

TOP CHORD

BOT CHORD

2-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI (loc)

TCLL 25.0 Plate Grip DOL Vert(LL) -0.01 >999 1.15 TC 0.12 6 360 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.02 >999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 5 n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.01

MT20 197/144 240 n/a >999 240 Weight: 12 lb FT = 10%

Structural wood sheathing directly applied or 3-9-7 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

PLATES

GRIP

L/d

except end verticals.

LUMBER-

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

3-7: 2x3 SPF No.2 **WEBS** 2x4 SPF No.2

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

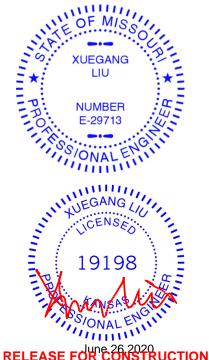
Max Horz 8=85(LC 8)

Max Uplift 8=-29(LC 8), 4=-43(LC 8), 5=-11(LC 8) Max Grav 8=243(LC 1), 4=95(LC 1), 5=56(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
- 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.





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



Job Truss Truss Type Qty Lot 64 RR 141823744 400374 J20 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:03 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

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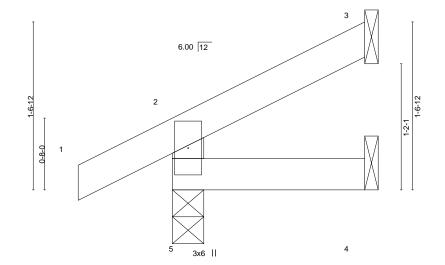
Structural wood sheathing directly applied or 1-9-7 oc purlins,

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

except end verticals.

1-9-7 0-10-8 1-9-7

Scale = 1:10.7



1-9-7 1-9-7

BRACING-

TOP CHORD

BOT CHORD

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

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size)

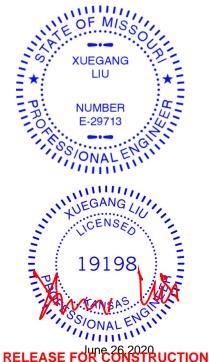
Max Horz 5=45(LC 8)

Max Uplift 5=-26(LC 8), 3=-28(LC 8) Max Grav 5=167(LC 1), 3=39(LC 1), 4=29(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.



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R0 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823745 400374 J21 Diagonal Hip Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:04 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-MhHktWww05OS_qqDP30vRsQ2vVPm8NthXbJSfnz2Qbn 1-2-14 3-2-2 5-0-1 Scale = 1:21.5 4.24 12 2-6-12 9 5 12 13 0-8-0 3x6 || 11 2x4 || 3x6 -11 Plate Offsets (X,Y)--[3:0-4-12,0-1-12], [5:Edge,0-2-8] SPACING-LOADING (psf) CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.21 5-6 >460 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.52 Vert(CT) -0.38 5-6 >248 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.16

0.23

n/a

>420

except end verticals

5

5-6

n/a

240

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 6-0-0 oc purlins,

LUMBER-

REACTIONS.

BCLL

BCDL

TOP CHORD 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E **BOT CHORD**

0.0

10.0

WEBS 2x3 SPF No.2 *Except*

2-8: 2x4 SPF No.2 (size) 8=0-4-9, 5=Mechanical

Max Horz 8=136(LC 5) Max Uplift 8=-137(LC 4), 5=-119(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 8=483(LC 1), 5=394(LC 1)

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

TOP CHORD 2-8=-484/170

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

WB

Matrix-R

0.02

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

NO

- 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.
- 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) 8=137, 5=119,
- 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) 68 lb down and 33 lb up at 2-7-6, 68 lb down and 33 lb up at 2-7-6, and 92 lb down and 54 lb up at 5-5-5, and 92 lb down and 54 lb up at 5-5-5 on top chord, and 3 lb down and 2 lb up at 2-7-6, 3 lb down and 2 lb up at 2-7-6, and 27 lb down and 31 lb up at 5-5-5, and 27 lb down and 31 lb up at 5-5-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

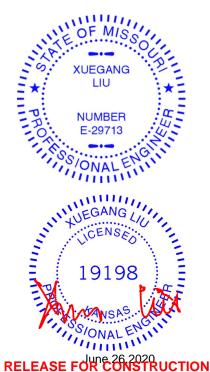
LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 10=-15(F=-8, B=-8) 11=3(F=2, B=2) 13=-54(F=-27, B=-27)



FT = 10%

Weight: 25 lb



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

Job Truss Truss Type Qty Lot 64 RR 141823746 400374 J22 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:05 2020 Page 1

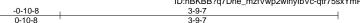
Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-qtr75sxYmPWJb_OPzmX8_4yKQusRtqUqmF2?CDz2Qbm

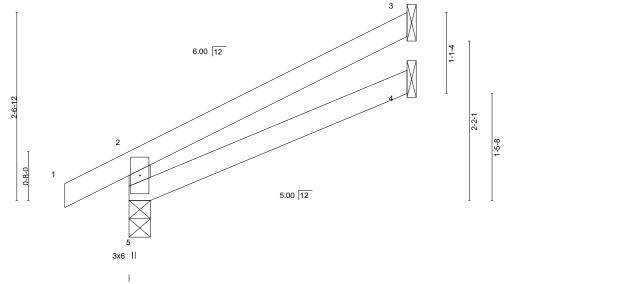
Structural wood sheathing directly applied or 3-9-7 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



Scale = 1:15.7



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=84(LC 8)

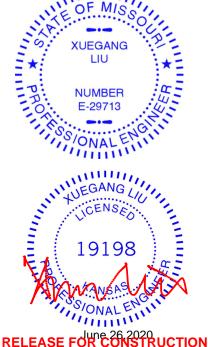
Max Uplift 5=-28(LC 8), 3=-63(LC 8)

Max Grav 5=243(LC 1), 3=110(LC 1), 4=67(LC 3)

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

NOTES-

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



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge Ro Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823747 400374 J23 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:05 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-qtr75sxYmPWJb_OPzmX8_4yL7ututqUqmF2?CDz2Qbm

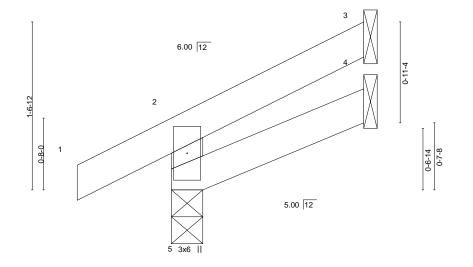
Structural wood sheathing directly applied or 1-9-7 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

0-10-8 1-9-7

Scale = 1:10.7



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

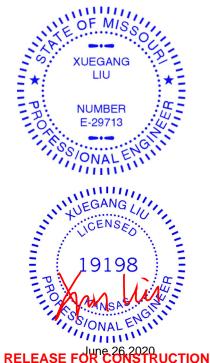
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=44(LC 8)

Max Uplift 5=-25(LC 8), 3=-29(LC 8) Max Grav 5=167(LC 1), 3=39(LC 1), 4=29(LC 3)

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

NOTES-

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





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



Job Truss Truss Type Qty Lot 64 RR 141823748 400374 J24 Diagonal Hip Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:06 2020 Page 1 Wheeler Lumber,

Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-I3PVICyAXjeAD8zbXT3NWHVO3I63cFG_?voZkgz2Qbl

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

Scale = 1:21.3

8-2-3 1-2-14 7-0-15

3x4 = 1-6-12 4.24 12 5x7 = 3x4 =10 0-8-0 3.54 12 5x7

	-	7-0-15 7-0-15		-	8-2-3 1-1-5		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. DEF TC 0.63 Vert BC 0.47 Vert WB 0.16 Horz Matrix-S Wind	LL) -0.08 6-7 CT) -0.16 6-7	l/defl L/d >999 360 >579 240 n/a n/a >999 240	PLATES MT20 Weight: 24 lb	GRIP 197/144 FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 *Except* **WEBS**

2-7: 2x6 SPF No.2

REACTIONS. (size) 7=0-3-7, 5=Mechanical

Max Horz 7=120(LC 5)

Max Uplift 7=-128(LC 4), 5=-106(LC 8) Max Grav 7=479(LC 1), 5=374(LC 1)

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

2-7=-594/238, 2-3=-778/214 TOP CHORD **BOT CHORD** 6-7=-260/702, 5-6=-239/614 3-6=0/384, 3-5=-878/362 WFBS

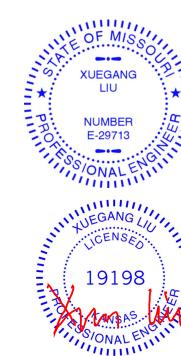
NOTES-

- 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
- 2) 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.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=128, 5=106.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 33 lb up at 2-7-6, 68 lb down and 33 lb up at 2-7-6, and 95 lb down and 72 lb up at 5-5-5, and 95 lb down and 72 lb up at 5-5-5 on top chord, and 3 lb down and 2 lb up at 2-7-6, 3 lb down and 2 lb up at 2-7-6, and 22 lb down at 5-5-5, and 22 lb down at 5-5-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Lot 64 RR
400074	10.4	Dia sanal His Circles			I41823748
400374	J24	Diagonal Hip Girder	1	1	Job Reference (optional)

Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:06 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-I3PVICyAXjeAD8zbXT3NWHVO3I63cFG_?voZkgz2Qbl

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-21(F=-11, B=-11) 10=3(F=2, B=2) 11=-26(F=-13, B=-13)

RELEASE FOR CONSTRUCTION



Job Truss Truss Type Qty Lot 64 RR 141823749 400374 J25 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:07 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-nGztWYzol0m1rlYo5Bac3V1dxiVYLje7DZX6G6z2Qbk

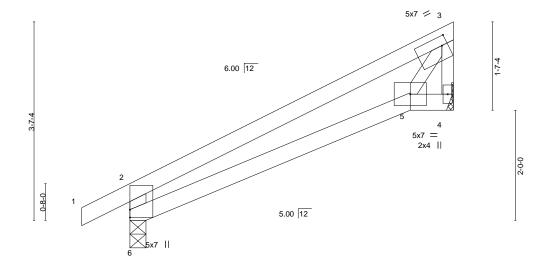
Structural wood sheathing directly applied or 5-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

-0-10-8 5-10-8 0-10-8 5-10-8

Scale = 1:20.9



- 1	5-1-2	5-10-8
Ī	5-1-2	0-9-6

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[3:0-1-4,0-2-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	5-6	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI	12014	Matri	x-S	Wind(LL)	-0.01	5	>999	240	Weight: 18 lb	FT = 10%	

LUMBER-

REACTIONS.

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

2-6: 2x4 SPF No.2

(size) 6=0-3-8, 4=Mechanical

Max Horz 6=89(LC 5)

Max Uplift 6=-6(LC 8), 4=-29(LC 8) Max Grav 6=331(LC 1), 4=247(LC 1)

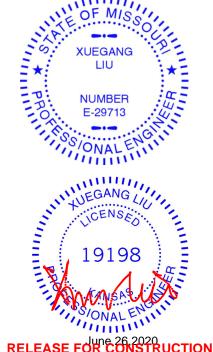
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-6=-375/54, 2-3=-306/10, 3-4=-279/32

WEBS 3-5=0/274

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.
- Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Job Truss Truss Type Qty Lot 64 RR 141823750 400374 J37 Diagonal Hip Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:09 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-je4dwD_3qd0l4biACcc48w7?yWDTpeTQhs0DL_z2Qbi -1-2-14 1-2-14 3-8-7 Scale = 1:12.7 4.24 12 6 2 0-8-0 7 4 3x6 || 3-8-7 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL Vert(LL) -0.01 >999 197/144 **TCLL** 25.0 1.15 TC 0.21 4-5 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) -0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=70(LC 4)

Max Uplift 5=-111(LC 4), 3=-64(LC 8)

Max Grav 5=229(LC 1), 3=87(LC 1), 4=62(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) The Fabrication Tolerance at joint 5 = 4%, joint 5 = 4%
- 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) 3 except (jt=lb) 5=111.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 106 lb up at 1-4-9, and 54 lb down and 106 lb up at 1-4-9 on top chord, and 3 lb down and 4 lb up at 1-4-9, and 3 lb down and 4 lb up at 1-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

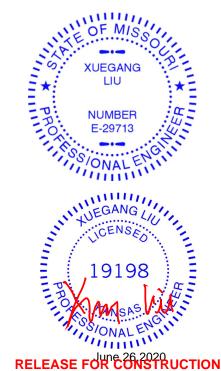
LOAD CASE(S) Standard

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: 6=59(F=29, B=29) 7=7(F=4, B=4)



Structural wood sheathing directly applied or 3-8-7 oc purlins,

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

except end verticals.



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



Job Truss Truss Type Qty Lot 64 RR 141823751 400374 J38 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:09 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-je4dwD_3qd0l4biACcc48w71BWExpeTQhs0DL_z2Qbi

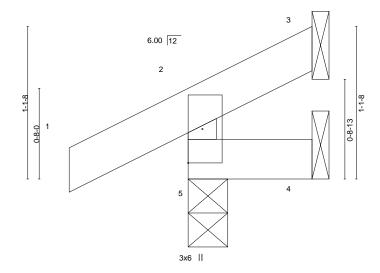
Structural wood sheathing directly applied or 0-10-15 oc purlins,

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

except end verticals.

0-10-15 0-10-8 0-10-15

Scale = 1:8.5



0-10-15 0-10-15

LOADING (p	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 4 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size)

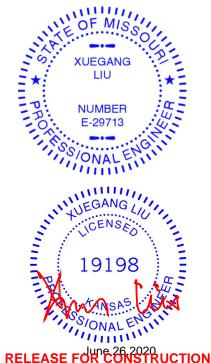
Max Horz 5=28(LC 5)

Max Uplift 5=-28(LC 8), 3=-7(LC 1), 4=-1(LC 5) Max Grav 5=147(LC 1), 3=5(LC 4), 4=13(LC 3)

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

NOTES-

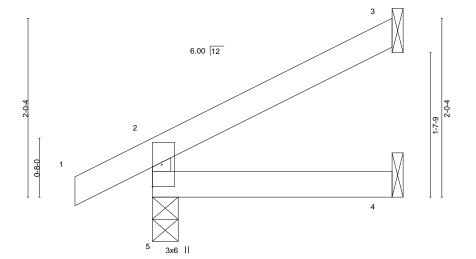
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for 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.



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



Job Truss Truss Type Qty Lot 64 RR 141823752 400374 J39 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:10 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Bre08Z?hbx8cilHMmJ7Jh7fChvaVY5jZwWmmtRz2Qbh 2-8-8 2-8-8 -0-10-8 0-10-8



2-8-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 >999 197/144 TC 0.08 4-5 360 MT20 4-5 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.00 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=63(LC 8)

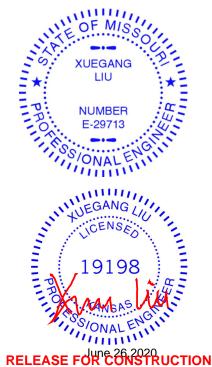
Max Uplift 5=-26(LC 8), 3=-46(LC 8)

Max Grav 5=196(LC 1), 3=75(LC 1), 4=48(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=1.33 plate grip DOL=1.33
- 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.



Structural wood sheathing directly applied or 2-8-8 oc purlins,

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

except end verticals.

Scale = 1:13.0



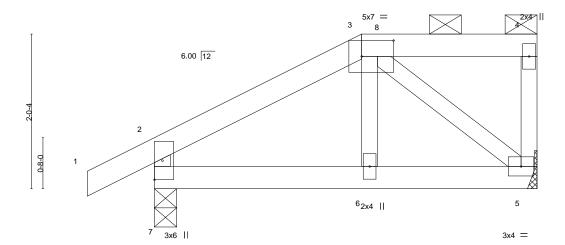
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Lot 64 RR 141823753 400374 J40 Jack-Closed Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:12 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-7DmmZF1x7YOKx3Rltk9nmYlXEjFN0?YsNqFtxJz2Qbf

2-3-8

Scale = 1:15.1



2-8-8

		1	2-8-8	5-0-0
			2-8-8	2-3-8
Plate Offsets (X,Y)	[3:0-5-0.0-2-8]			

1 1010 011	0010 (71,17	[0.0 0 0,0 2 0]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.00 6 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00 6 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) 0.00 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=80(LC 7)

Max Uplift 7=-72(LC 8), 5=-67(LC 5) Max Grav 7=298(LC 1), 5=217(LC 1)

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

0-10-8

TOP CHORD 2-7=-259/86

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=1.33 plate
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 7, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 63 lb up at 2-8-8, and 62 lb down and 50 lb up at 3-0-12 on top chord, and 20 lb down at 2-8-8, and 15 lb down at 3-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

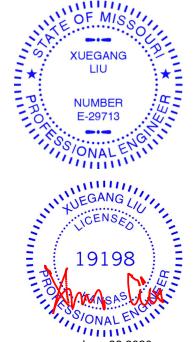
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 6=-9(F) 3=-1(F) 8=-5(F)



Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

RELEASE FOR CONSTRUCTION MINISTRATION

IMIT, MISSOURI

MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823754 400374 J41 Jack-Closed Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:13 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-bPK8mb1ZusWBZD0xRRh0JmHgW7a7lST?cU_QUmz2Qbe -0-10-8 4-8-8 0-10-8 4-8-8 Scale = 1:20.0 3x4 || 3

3-0-4	6.00 12		2-10-1
0-8-0	1		
		4	
	5 3x6	2x4	

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 Vert(LL) -0.02 4-5 >999 360 MT20 197/144 TC 0.30 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.05 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 4 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 16 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=99(LC 7)

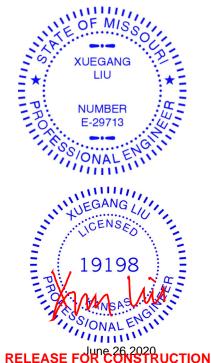
Max Uplift 5=-12(LC 8), 4=-20(LC 8) Max Grav 5=293(LC 1), 4=206(LC 1)

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

TOP CHORD 2-5=-257/47

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=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.



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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 64 RR 141823755 400374 J42 Jack-Open Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:13 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-bPK8mb1ZusWBZD0xRRh0JmHfm7ZklST?cU_QUmz2Qbe 5-0-0 5-0-0 -0-10-8 0-10-8 Scale = 1:19.7 6.00 12 0-8-0 3x6 || 5-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc) 4-5 TCLL 25.0 Plate Grip DOL Vert(LL) -0.02 >999 1.15 TC 0.35 360 -0.05 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 3 n/a n/a

Matrix-R

197/144 MT20

GRIP

PLATES

Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals

Weight: 14 lb FT = 20%

LUMBER-

REACTIONS.

BCDL

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

10.0

WEBS 2x4 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=76(LC 8) Max Uplift 3=-49(LC 8)

Code IRC2018/TPI2014

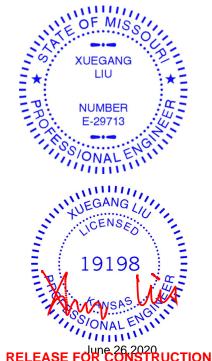
Max Grav 5=295(LC 1), 3=149(LC 1), 4=90(LC 3)

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

2-5=-258/40

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=1.33 plate grip DOL=1.33
- 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.

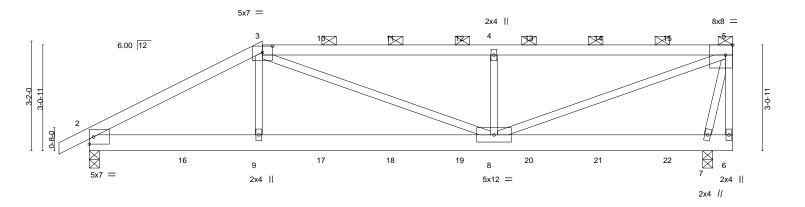


MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823756 400374 K1 Half Hip Girder Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:18 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-yN71pl5ijO9Tf_uvE?GB0p?PB88AQVMllmiB9zz2QbZ 0-10-8 5-0-0 6-8-3 6-10-11

Scale = 1:33.3



		5-0-0				11-8-3			- 1			17-10-4		18-6-14
	1	5-0-0	1			6-8-3			'			6-2-1		b-8-10 [']
Plate Offse	ets (X,Y)	[3:0-3-8,0-2-3], [5:0-2-8,Ed	lge]											
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)	-0.10	`8-9	>999	360		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71		Vert(CT)	-0.19	8-9	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85		Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI	2014	Matri	c-S								Weight: 75 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2

WEBS 2x3 SPF No.2

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

Max Horz 2=90(LC 24)

Max Uplift 2=-144(LC 8), 7=-141(LC 5) Max Grav 2=1413(LC 1), 7=1399(LC 1)

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

2-3=-2313/210, 3-4=-2190/206, 4-5=-2187/205, 5-6=-498/0 TOP CHORD

BOT CHORD 2-9=-233/1949 8-9=-233/1928

WEBS 3-9=0/546, 3-8=-49/382, 4-8=-876/262, 5-8=-272/2488, 5-7=-721/208

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) 2=144, 7=141.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 63 lb up at 6-9-4, 89 lb down and 63 lb up at 8-9-4, 89 lb down and 63 lb up at 10-9-4, 89 lb down and 63 lb up at 12-9-4, and 89 lb down and 63 lb up at 14-9-4, and 89 lb down and 63 lb up at 16-9-4 on top chord, and 197 lb down and 87 lb up at 2-9-4, 186 lb down and 40 lb up at 4-9-4, 50 lb down at 6-9-4, 50 lb down at 8-9-4, 50 lb down at 10-9-4, 50 lb down at 12-9-4, and 50 lb down at 14-9-4, and 50 lb down at 16-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

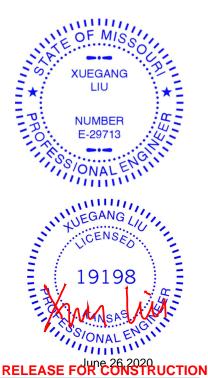
Vert: 1-3=-70, 3-5=-70, 2-6=-20

Continued on page 2

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 3-6-15 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 7-8.



Job	Truss	Truss Type	Qty	Ply	Lot 64 RR
					I41823756
400374	K1	Half Hip Girder	1	1	
					Job Reference (optional)

Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:18 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-yN71pl5ijO9Tf_uvE?GB0p?PB88AQVMllmiB9zz2QbZ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-186(B) 10=-79(B) 11=-79(B) 12=-79(B) 13=-79(B) 14=-79(B) 15=-79(B) 16=-197(B) 17=-39(B) 18=-39(B) 19=-39(B) 20=-39(B) 21=-39(B) 22=-39(B)

RELEASE FOR CONSTRUCTION



NOTED ON PLANS REVIECODE ADMINISTRATION LEVEL STATEMENT, MISSOURI MiTek

Job Truss Truss Type Qty Lot 64 RR 141823757 400374 K2 Half Hip Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:19 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-QZhP1e6KTiHKH8T5oioQY1XaxYZg944u_QRlhPz2QbY

12-8-3

5-8-3

Scale = 1:32.7

18-6-14

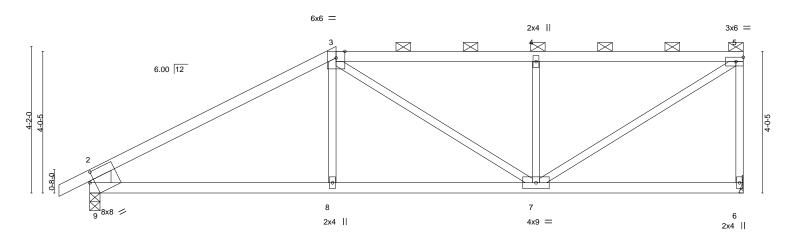
5-10-11

18-6-14

Structural wood sheathing directly applied or 4-2-4 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-5-7 max.): 3-5.

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



		7-0-0		'	5-8-3			'		5-10-11	
Plate Off	sets (X,Y)	[9:0-1-10,0-3-4]									
LOADIN	\(\(\frac{1}{2}\)		D-0 CSI		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0		.15 TC	0.75	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0		.15 BC	0.43	Vert(CT)	-0.12	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	ES WB	0.38	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14 Mat	rix-S						Weight: 65 lb	FT = 20%

12-8-3

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

-0-10-8 0-10-8

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

2-9: 2x8 SP DSS

(size) 6=Mechanical, 9=0-3-8

Max Horz 9=130(LC 7)

Max Uplift 6=-43(LC 5), 9=-10(LC 8) Max Grav 6=815(LC 1), 9=903(LC 1)

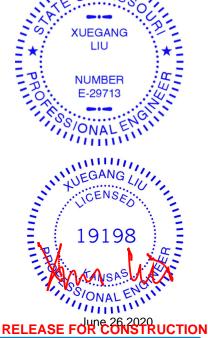
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1171/13, 3-4=-941/40, 4-5=-938/39, 5-6=-763/70, 2-9=-827/57

7-0-0

7-0-0

8-9=-75/939, 7-8=-77/936 BOT CHORD **WEBS** 4-7=-489/111, 5-7=-59/1096

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
- 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.



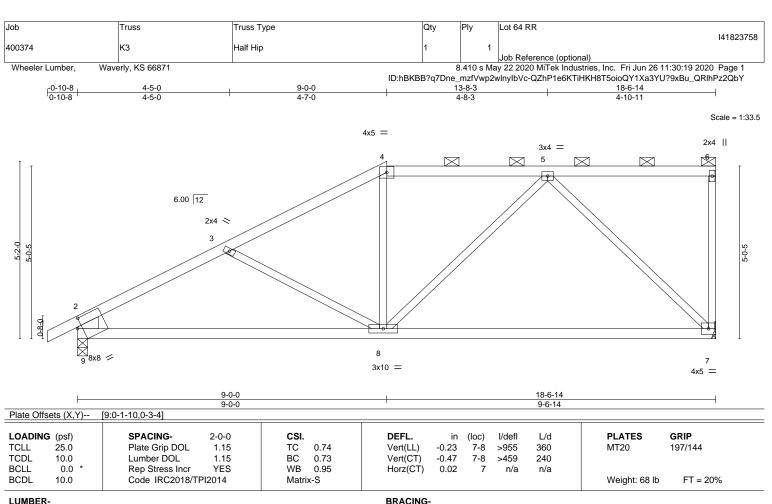


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 2-9: 2x8 SP DSS

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

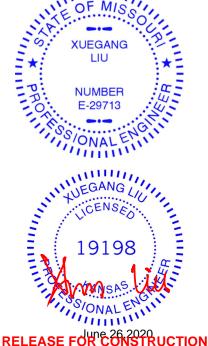
Max Horz 9=163(LC 5)

Max Uplift 7=-44(LC 5), 9=-19(LC 8) Max Grav 7=815(LC 1), 9=903(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1214/48, 3-4=-964/5, 4-5=-821/25, 2-9=-818/61

BOT CHORD 8-9=-115/989 7-8=-88/612 **WEBS** 5-8=0/326, 5-7=-840/89

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9.
- 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.



Structural wood sheathing directly applied or 3-8-11 oc purlins,

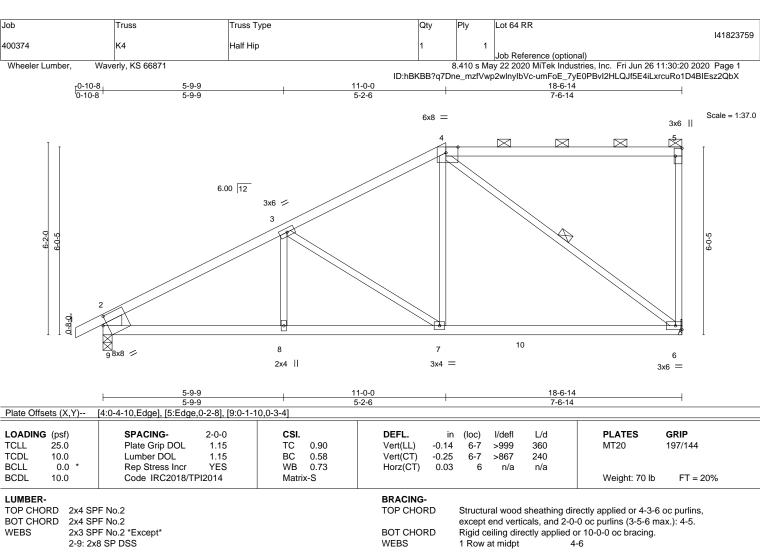
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 10-0-0 oc bracing



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





REACTIONS.

(size) 6=Mechanical, 9=0-3-8

Max Horz 9=195(LC 7)

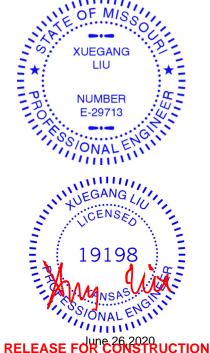
Max Uplift 6=-45(LC 5), 9=-25(LC 8) Max Grav 6=863(LC 2), 9=923(LC 2)

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

2-3=-1233/35, 3-4=-864/39, 5-6=-251/63, 2-9=-815/60 TOP CHORD

BOT CHORD 8-9=-96/1031 7-8=-96/1031 6-7=-69/717 **WEBS** 3-7=-374/92, 4-7=0/512, 4-6=-881/40

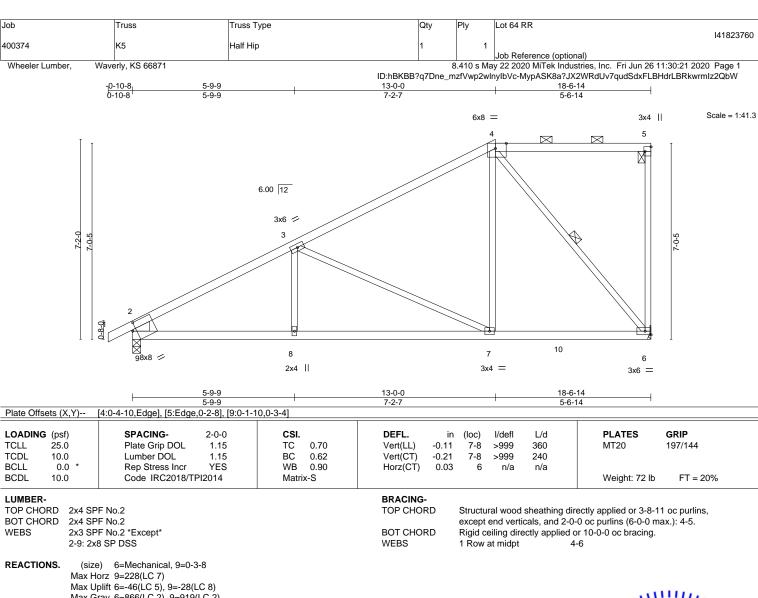
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
- 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.





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



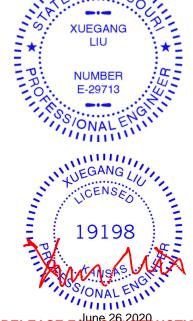


Max Grav 6=866(LC 2), 9=919(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1273/40, 3-4=-705/46, 2-9=-815/56

8-9=-102/1094, 7-8=-102/1094, 6-7=-66/541 BOT CHORD **WEBS** 3-7=-600/108, 4-7=0/542, 4-6=-838/38

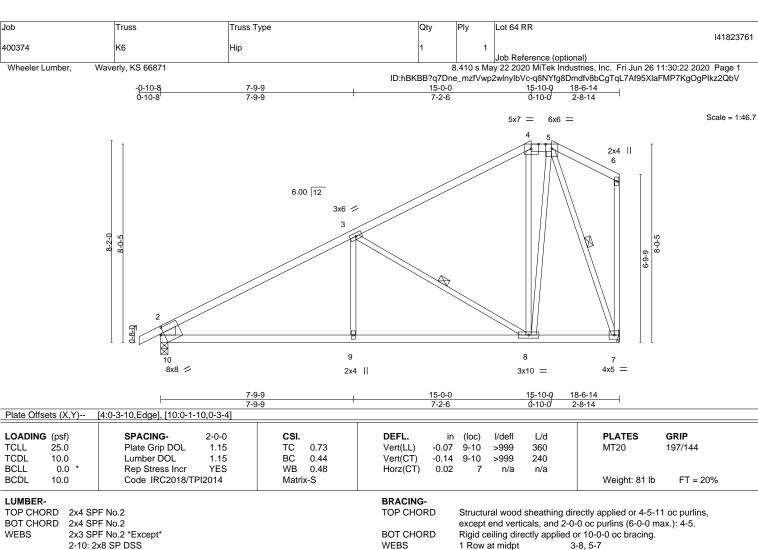
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
- 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.



RELEASE FOR CONSTRUCTION

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

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



2-10: 2x8 SP DSS

(size) 10=0-3-8, 7=Mechanical Max Horz 10=235(LC 5)

Max Uplift 10=-29(LC 8), 7=-27(LC 8) Max Grav 10=903(LC 1), 7=815(LC 1)

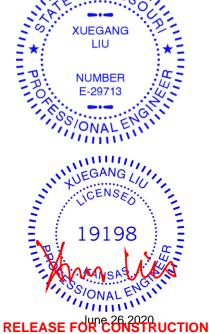
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1164/43, 3-4=-484/59, 4-5=-321/78, 2-10=-822/75

BOT CHORD 9-10=-82/931 8-9=-82/931

WEBS 3-9=0/305, 3-8=-710/114, 5-8=-72/703, 5-7=-757/25

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



Job Truss Truss Type Qty Lot 64 RR 141823762 Common 400374 K7 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:23 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-JLxwt09rXxnmmlms1YsMitiDK9v75rbUv2PyqBz2QbU -0-10-8 0-10-8 18-6-14 7-9-9 7-7-6 3-1-14 Scale = 1:50.4 5x7 = 4x5 = 6.00 12

3x6 = 3 8 7 2x4 || 8x8 / 2x4 || 4x9 = 18-6-14

Plate Off	sets (X,Y)	[9:0-1-10,0-3-4]											
LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.92	DEFL. Vert(LL)	in -0.07	(loc) 7-8	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144	
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.46 0.53	Vert(CT) Horz(CT)	-0.17 0.02	7-8 6	>999 n/a	240 n/a	W : 1. 75 II	FT 000/	
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-S						Weight: 75 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x3 SPF No.2 *Except* 2-9: 2x8 SP DSS

REACTIONS. (size) 9=0-3-8, 6=Mechanical

Max Horz 9=240(LC 7)

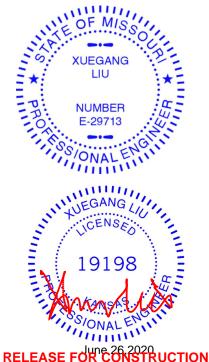
Max Uplift 9=-28(LC 8), 6=-32(LC 8) Max Grav 9=903(LC 1), 6=815(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1170/42, 3-4=-449/57, 4-5=-335/82, 2-9=-822/73, 5-6=-808/47

8-9=-80/938, 7-8=-80/938 BOT CHORD

WEBS 3-8=0/315, 3-7=-754/121, 5-7=-11/670

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- 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) 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-5-7 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt



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



Job Truss Truss Type Qty Lot 64 RR 141823763 400374 L1 Common Supported Gable Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:24 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-nXUI4MATIEvdNvL3aFNbF4FbPZMDqQYd8i9VNdz2QbT

7-8-0

Structural wood sheathing directly applied or 6-0-0 oc purlins,

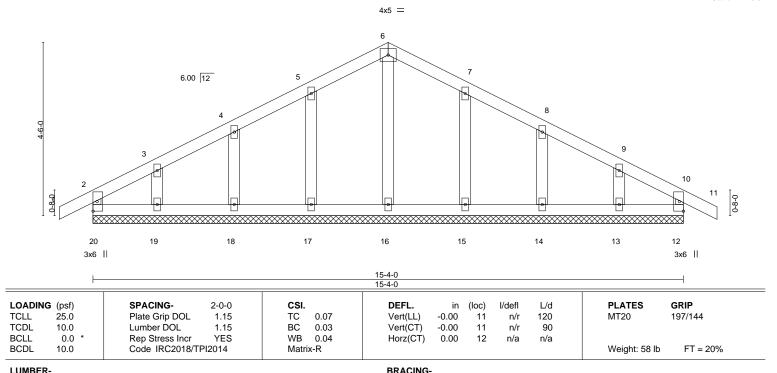
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals

Scale = 1:29.9

16-2-8

0-10-8



TOP CHORD

BOT CHORD

OTHERS 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2x3 SPF No.2

-0-10-8 0-10-8

REACTIONS. All bearings 15-4-0. (lb) -Max Horz 20=71(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

7-8-0

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

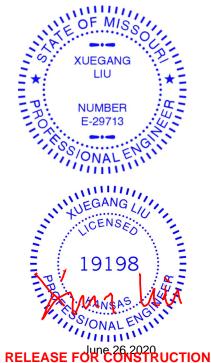
NOTES-

TOP CHORD

BOT CHORD

WEBS

- 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=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Job Truss Truss Type Qty Lot 64 RR 141823764 400374 L2 Common Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:25 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Fj2hHiB53Y1U?3wF8zuqoInc9ybiZsqmMMu3v3z2QbS 16-2-8

Structural wood sheathing directly applied or 4-3-12 oc purlins,

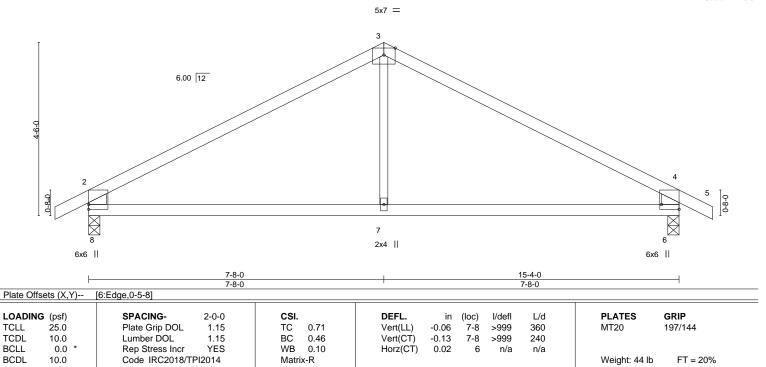
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals

7-8-0

Scale = 1:29.9

0-10-8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

0-10-8

3-7: 2x3 SPF No.2

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=-73(LC 6)

Max Uplift 8=-108(LC 8), 6=-108(LC 9) Max Grav 8=747(LC 1), 6=747(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-861/115, 3-4=-861/115, 2-8=-688/162, 4-6=-688/162

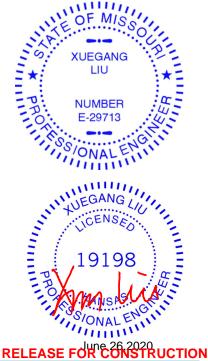
BOT CHORD 7-8=-25/657, 6-7=-25/657

WEBS 3-7=0/329

- 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=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7-8-0

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=108, 6=108.
- 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.





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



Job	Truss	Truss Type	Qty	Ply	Lot 64 RR	٦
400374	LAY2	GABLE	1	1	141823765	
4003/4	LATZ	OABLE			Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:25 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-Fj2hHiB53Y1U?3wF8zuqolnlQyiYZtemMMu3v3z2QbS

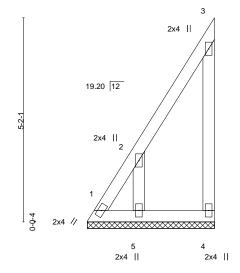
Structural wood sheathing directly applied or 3-2-13 oc purlins,

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

except end verticals.

3-2-13

Scale = 1:29.2



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 17 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 **WEBS OTHERS** 2x4 SPF No.2

REACTIONS. (size) 1=3-2-11, 4=3-2-11, 5=3-2-11

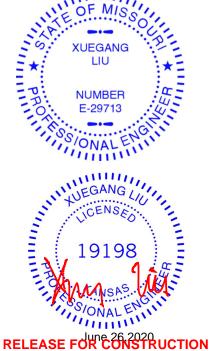
Max Horz 1=178(LC 5)

Max Uplift 1=-143(LC 6), 4=-102(LC 7), 5=-220(LC 8) Max Grav 1=210(LC 5), 4=119(LC 15), 5=235(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=143, 4=102, 5=220,
- 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.



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R0 Chesterfield, MO 63017

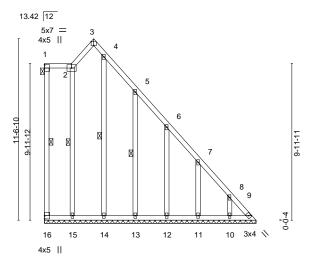
Job Truss Truss Type Qty Lot 64 RR 141823766 400374 LAY3 GABLE

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:26 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-jwc3V2Bjqs9LdDVRigQ3KVKqrMzllIfwb0ecRVz2QbR

1-8-12 3-1-10 1-8-12 1-4-14 13-5-10 10-4-0

> Scale = 1:73.3 3x4 =



13-5-10

Plate Off	fsets (X,Y)	[3:Edge,0-3-0]										
LOADIN	G (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)	n/a		n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matr	ix-S						Weight: 92 lb	FT = 20%

BRACING-LUMBER-

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

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 15-16. 1-16, 2-15, 4-14, 5-13

WEBS 1 Row at midpt

REACTIONS. All bearings 13-5-10.

(lb) -Max Horz 16=-427(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 16, 15 except 9=-232(LC 7), 14=-255(LC 6), 13=-181(LC 9),

12=-127(LC 9), 11=-139(LC 9), 10=-126(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 16, 15, 13, 12, 11, 10 except 9=373(LC 4), 14=306(LC 5)

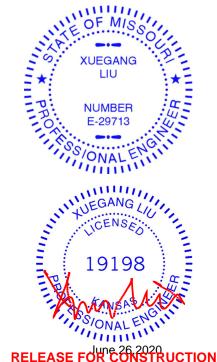
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-5=-314/249, 5-6=-323/235, 6-7=-365/259, 7-8=-437/313, 8-9=-502/357

BOT CHORD 15-16=-239/345, 14-15=-239/345, 13-14=-239/345, 12-13=-239/345, 11-12=-239/345,

10-11=-239/345, 9-10=-239/345

WEBS 4-14=-261/269

- 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=1.33 plate grip DOL=1.33
- 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.
- * 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) 16, 15 except (jt=lb) 9=232, 14=255, 13=181, 12=127, 11=139, 10=126.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



Job Truss Truss Type Qty Lot 64 RR 141823767 400374 LAY4 GABLE Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:27 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-B6ARiNCLb9HBEM4eGOxItjs6NmMv1IG3qgNAzyz2QbQ

8-11-8 8-11-8

> Scale = 1:63.2 4x5 =

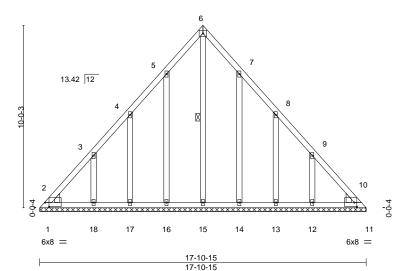


Plate Offsets (X.Y)-- [1:0-2-10.0-2-12], [11:0-1-11.0-2-12]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	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	0.17	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S	, ,					Weight: 96 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 **BRACING-**

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Row at midpt 6-15

REACTIONS. All bearings 17-10-15.

Max Horz 1=-260(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-105(LC 6), 16=-139(LC 8), 17=-115(LC 8), 18=-217(LC

8), 14=-137(LC 9), 13=-117(LC 9), 12=-212(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 14, 13 except 15=280(LC 9), 18=282(LC 15),

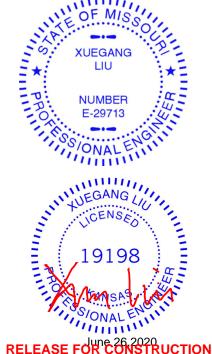
12=277(LC 16)

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

TOP CHORD 1-2=-290/176, 2-3=-297/214, 9-10=-262/161, 10-11=-257/124

WEBS 6-15=-255/39

- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=105, 16=139, 17=115, 18=217, 14=137, 13=117, 12=212.
- 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.





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

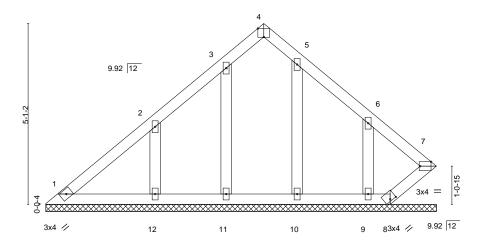


Job Truss Truss Type Qty Lot 64 RR 141823768 400374 LAY5 GABLE 1 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:28 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-flkpwjDzMTP2sWfqp5SXPwPH0AjqmEeD2K7jWOz2QbP 11-0-5 6-2-0 4-10-6

> Scale = 1:32.5 3x4 =



9-8-11 11-0-5 1-3-10

Plate Oil	seis (A, Y)	[4:0-2-0,Eage], [7:0-3-11	,Eugej, [8:0-2-	0,0-0-10]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	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	0.03	Horz(CT)	0.00	7	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S						Weight: 42 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 11-0-0.

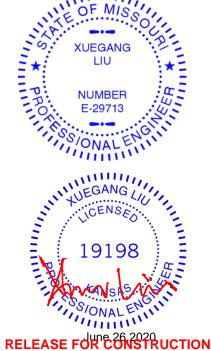
(lb) -Max Horz 1=122(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 11, 10 except 12=-134(LC 8), 9=-105(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 11, 10, 9 except 12=275(LC 15)

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

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=1.33 plate grip DOL=1.33
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 7, 8, 11, 10 except (it=lb) 12=134, 9=105.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 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.



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

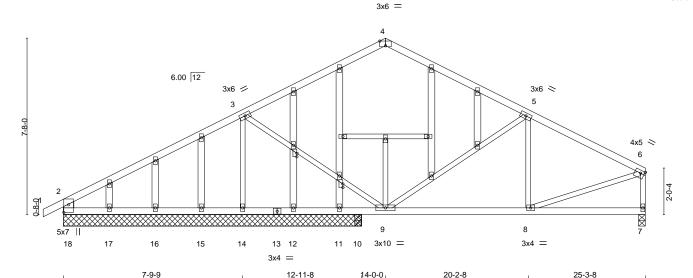


Job Truss Truss Type Qty Lot 64 RR 141823769 400374 M1 GABLE 1 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:30 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-chsaLPFEu4fm5qpCxWU?VLUUXzKOE0sWWecqaHz2QbN

20-2-8 25-3-8 7-9-9 6-2-8 6-2-8

Scale = 1:50.1



7-9-9 1-0-8 5-2-0 Plate Offsets (X,Y)--[4:0-3-0,Edge], [6:0-2-0,0-1-8], [18:0-4-1,0-2-8], [20:0-1-13,0-0-0], [22:0-1-13,0-0-0] **PLATES** GRIP LOADING (psf) SPACING-(loc) I/defl L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.60 Vert(LL) -0.05 8-9 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.128-9 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.56 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-S Weight: 120 lb FT = 20%

LUMBER-

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

WEBS 2x3 SPF No.2 *Except* 2-18: 2x6 SPF No.2

OTHERS 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins,

except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 8-9,7-8.

REACTIONS. All bearings 12-11-8 except (jt=length) 7=0-3-8, 10=0-3-8.

Max Horz 18=154(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 18, 14, 17 except 7=-104(LC 9), 11=-243(LC 3), 10=-144(LC 8) Max Grav All reactions 250 lb or less at joint(s) 11, 12, 15, 16, 17 except 18=357(LC 1), 14=757(LC 1), 7=744(LC 1), 10=459(LC 3)

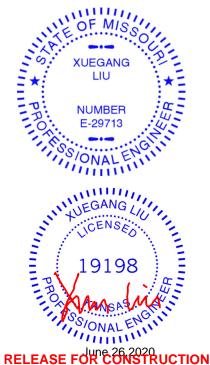
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-350/147, 3-4=-538/151, 4-5=-532/144, 5-6=-821/128, 2-18=-441/183,

6-7=-705/127 **BOT CHORD** 8-9=-87/680 WEBS

3-14=-725/102, 3-9=0/297, 5-9=-405/165, 6-8=-71/690

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=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 14, 17 except (it=lb) 7=104 11=243 10=144
- 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.



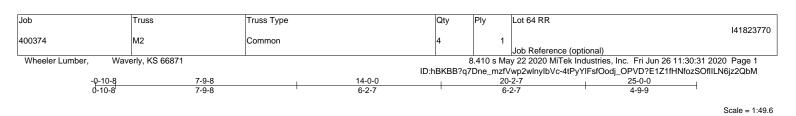


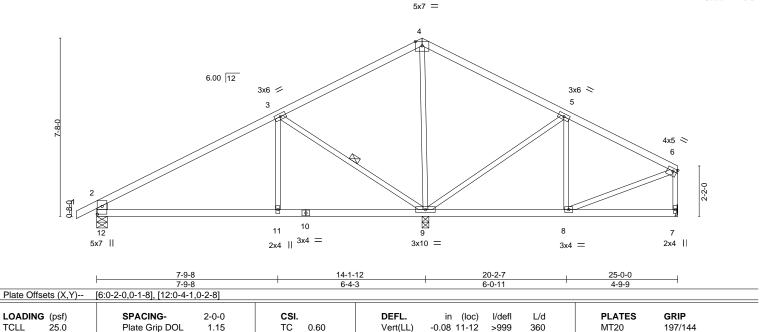
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

D ON PLANS REVIE MIT, MISSOURI MiTek 16023 Swingley Riage Rd Chesterfield, MO 63017





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.17 11-12

0.02

>994

except end verticals.

1 Row at midpt

n/a

240

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

2-12: 2x6 SPF No.2

(size) 12=0-5-8, 9=0-3-8, 7=Mechanical

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 12=158(LC 5)

Max Uplift 12=-168(LC 8), 9=-37(LC 9), 7=-103(LC 9) Max Grav 12=669(LC 21), 9=1206(LC 1), 7=438(LC 22)

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

2-3=-716/218, 5-6=-395/127, 2-12=-603/216, 6-7=-398/123 TOP CHORD

BOT CHORD 11-12=-220/538, 9-11=-220/538, 8-9=-88/319

WEBS 3-11=0/303, 3-9=-707/226, 4-9=-439/0, 5-9=-453/156, 6-8=-75/323

- 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=1.33 plate grip DOL=1.33

ВС

WB 0.61

Matrix-S

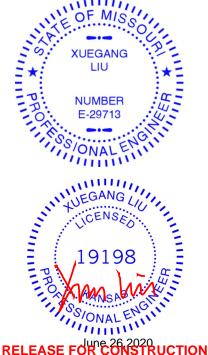
0.41

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

1.15

YES

- * 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) 9 except (jt=lb) 12=168, 7=103.
- 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.



FT = 20%

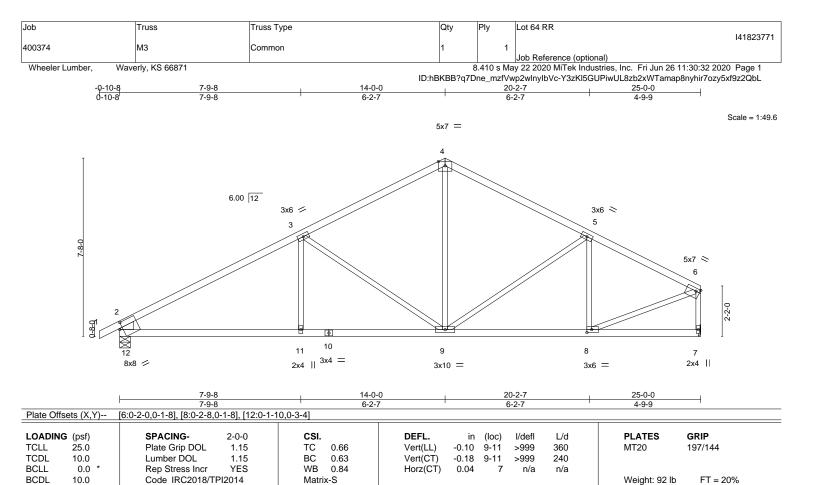
Weight: 92 lb

Structural wood sheathing directly applied or 5-11-12 oc purlins,



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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 2-12: 2x8 SP DSS

REACTIONS. (size) 12=0-5-8, 7=Mechanical

Max Horz 12=132(LC 5)

Max Uplift 12=-30(LC 8), 7=-5(LC 9) Max Grav 12=1191(LC 1), 7=1105(LC 1)

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

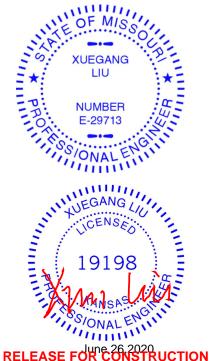
TOP CHORD 2-3=-1707/44, 3-4=-1151/62, 4-5=-1152/73, 5-6=-1226/25, 2-12=-1097/77,

6-7=-1062/26

BOT CHORD 11-12=-40/1401, 9-11=-40/1401, 8-9=0/1046

WEBS 3-11=0/267, 3-9=-600/108, 4-9=0/528, 5-8=-307/68, 6-8=0/1101

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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) 12, 7.
- 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.



Structural wood sheathing directly applied or 4-9-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals



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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E 2x4 SPF No.2 **WEBS**

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (lb/size) 2=4034/0-5-8, 7=5413/Mechanical

Max Horz 2=125(LC 26)

Max Uplift 2=-214(LC 8), 7=-261(LC 9)

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

TOP CHORD 2-3=-7710/426, 3-4=-5494/331, 4-5=-5486/343, 5-6=-6060/311, 6-7=-4893/253

BOT CHORD 2-12=-376/6640, 11-12=-376/6640, 10-11=-376/6640, 10-13=-376/6640, 13-14=-376/6640,

9-14=-376/6640, 9-15=-253/5363, 15-16=-253/5363, 16-17=-253/5363, 8-17=-253/5363 **WEBS**

3-11=-53/1974, 3-9=-2220/220, 4-9=-228/4413, 5-9=-754/104, 5-8=-220/387,

6-8=-252/5603

NOTES-

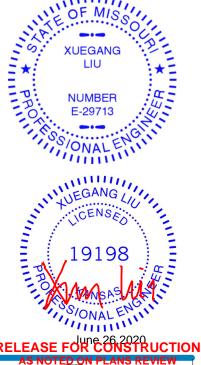
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) 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.
- 7) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 2 and 261 lb uplift at
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 795 lb down and 63 lb up at 7-0-12, 795 lb down and 64 lb up at 9-0-12, 843 lb down and 65 lb up at 11-0-12, 846 lb down and 66 lb up at 13-0-12, 795 lb down and 47 lb up at 15-0-12, 795 lb down and 52 lb up at 17-0-12, 795 lb down and 52 lb up at 19-0-12, and 795 lb down and 52 lb up at 21-0-12, and 795 lb down and 52 lb up at 23-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied, except end verticals.

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

LOAD GASTIGS. VSIANGESIGN parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle

MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R9 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 64 RR
400374	M4	Common Girder	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, Mitek

8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 14:58:21 2020 Page 2 ID:hBKBB?q7Dne_mzfVwp2wInyIbVc-_VIRQg58vGVe6MJjTL6PRkVcB6cMiDG7DN2Enxz2NYW

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 10=-795(F) 12=-795(F) 13=-795(F) 14=-795(F) 15=-795(F) 16=-795(F) 17=-795(F) 18=-795(F) 19=-795(F)

RELEASE FOR CONSTRUCTION

NOTED ON PLANS REVIECO ATTACHMENT ON LETTER MINISTRATION LETTER MI MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017

Job Truss Truss Type Lot 64 RR 141823773 Valley 400374 V1 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:34 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-US54AnlkxJACaR6_AMZxfBfF7bkQAxf5RFa1j2z2QbJ

Structural wood sheathing directly applied or 4-7-4 oc purlins,

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

except end verticals.

Scale = 1:18.2

4-7-4

2x4 || ₂ 8.00 12 0-0-4 П 2x4 /

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.31	DEFL. in (loc) I/de Vert(LL) n/a - n	efl L/d n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a - n	n/a 999	W1120 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00 3 n	n/a n/a	Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

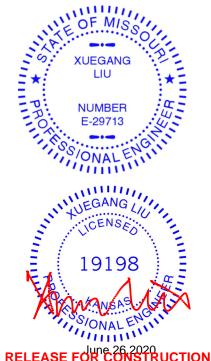
WEBS 2x3 SPF No.2

> 1=4-6-14, 3=4-6-14 (size) Max Horz 1=107(LC 5) Max Uplift 1=-15(LC 8), 3=-52(LC 8) Max Grav 1=181(LC 1), 3=194(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



Job Truss Truss Type Qty Lot 64 RR 141823774 Valley 400374 V2 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:34 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-US54AnlkxJACaR6_AMZxfBflzblxAxf5RFa1j2z2QbJ

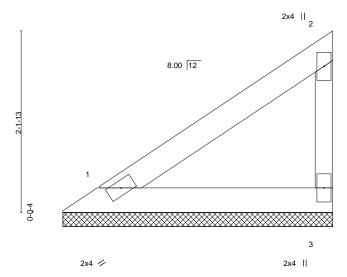
Structural wood sheathing directly applied or 3-2-12 oc purlins,

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

except end verticals.

3-2-12

Scale = 1:13.7



LOADIN	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.12	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TPI2	YES 2014	WB Matri	0.00 ix-P	Horz(CT)	-0.00	3	n/a	n/a	Weight: 9 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

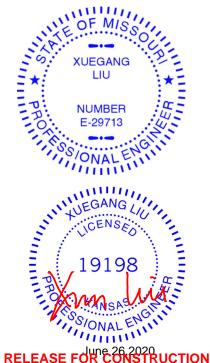
REACTIONS. 1=3-2-6, 3=3-2-6 (size) Max Horz 1=70(LC 5)

Max Uplift 1=-10(LC 8), 3=-34(LC 8) Max Grav 1=119(LC 1), 3=128(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R0 Chesterfield, MO 63017

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

Job Truss Truss Type Qty Lot 64 RR 141823775 Valley 400374 V3

Wheeler Lumber, Waverly, KS 66871

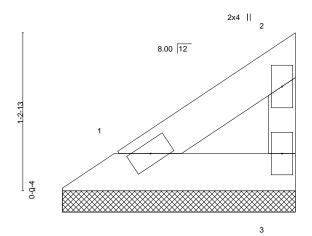
Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:35 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-yefTO6lMidl3CbhAk34ACPCUF_6_vOvFgvJbFUz2Qbl

Structural wood sheathing directly applied or 1-10-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

1-10-4

Scale = 1:9.0



2x4 //

2x4 ||

except end verticals.

LOADIN	VI /		-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 10.0		1.15 1.15	TC BC	0.03 0.01	Vert(LL) Vert(CT)	n/a n/a	-	n/a	999 999	MT20	197/144
BCLL	0.0 *		YES	WB	0.00	Horz(CT)	-0.00	3	n/a n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matri		,					Weight: 4 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

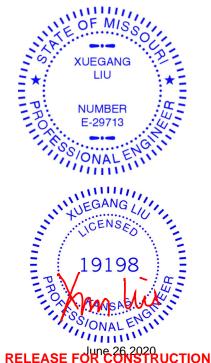
> 1=1-9-14, 3=1-9-14 (size) Max Horz 1=34(LC 5)

Max Uplift 1=-5(LC 8), 3=-17(LC 8) Max Grav 1=57(LC 1), 3=61(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



Job Truss Truss Type Lot 64 RR 141823776 Valley 400374 V4 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:36 2020 Page 1

Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-QrDrbSJ?TwQwpIGMHnbPkckcOORserKOuZ38owz2QbH

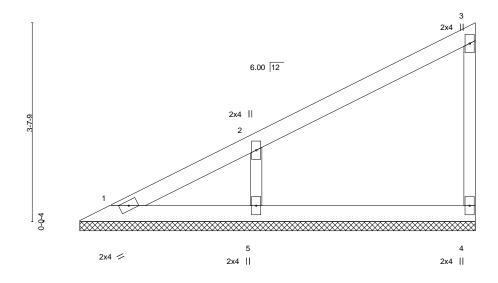
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-3-2 7-3-2

Scale = 1:21.0



LOADING	i (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	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-P						Weight: 20 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 **WEBS OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=7-2-10, 4=7-2-10, 5=7-2-10

Max Horz 1=136(LC 5)

Max Uplift 4=-26(LC 8), 5=-113(LC 8)

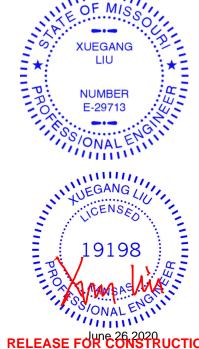
Max Grav 1=83(LC 16), 4=141(LC 1), 5=378(LC 1)

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

2-5=-294/164 **WEBS**

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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=113
- 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.



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R0 Chesterfield, MO 63017

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

Job Truss Truss Type Lot 64 RR 141823777 Valley 400374 V5 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:37 2020 Page 1

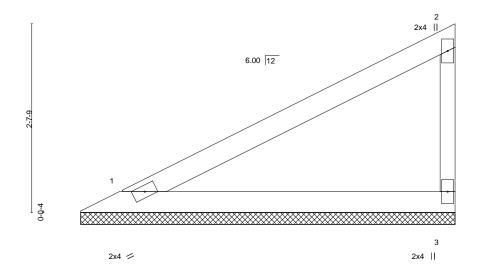
Wheeler Lumber, Waverly, KS 66871 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-u1nDpoKdEEYnRvrZrU6eHqHk2olNNIPY7DoiKNz2QbG

Structural wood sheathing directly applied or 5-3-2 oc purlins,

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

except end verticals.

Scale: 3/4"=1"



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.39 BC 0.21	Vert(LL) n/a - r Vert(CT) n/a - r	defl L/d n/a 999 n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00 3 r	n/a n/a	Weight: 14 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

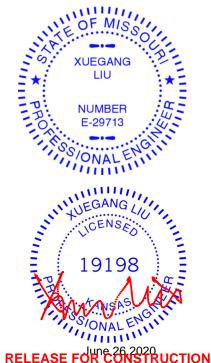
> 1=5-2-10, 3=5-2-10 (size)

Max Horz 1=94(LC 5) Max Uplift 1=-26(LC 8), 3=-50(LC 8) Max Grav 1=204(LC 1), 3=204(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Job Truss Truss Type Qty Lot 64 RR 141823778 400374 V6 Valley

Wheeler Lumber, Waverly, KS 66871

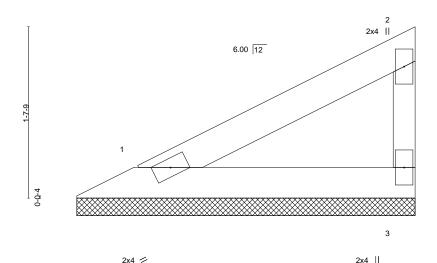
Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:37 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-u1nDpoKdEEYnRvrZrU6eHqHpQookNIPY7DoiKNz2QbG

Structural wood sheathing directly applied or 3-3-2 oc purlins,

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

except end verticals.

Scale = 1:11.0



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.11 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

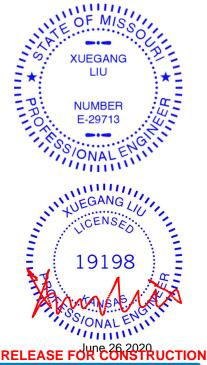
REACTIONS. 1=3-2-10, 3=3-2-10 (size)

Max Horz 1=53(LC 5) Max Uplift 1=-15(LC 8), 3=-28(LC 8) Max Grav 1=114(LC 1), 3=114(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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



Job Truss Truss Type Qty Lot 64 RR 141823779 Valley 400374 V7

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Jun 26 11:30:38 2020 Page 1 ID:hBKBB?q7Dne_mzfVwp2wlnylbVc-NDLb08LF?Yge33QIPCdtp1q?0C8Q6lfhMtYFspz2QbF

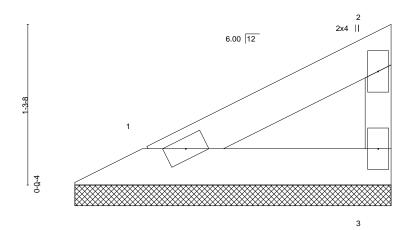
Structural wood sheathing directly applied or 2-7-0 oc purlins,

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

except end verticals.

2-7-0

Scale = 1:9.3



2x4 / 2x4 ||

LOADING TCLL	i (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.06	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-P						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

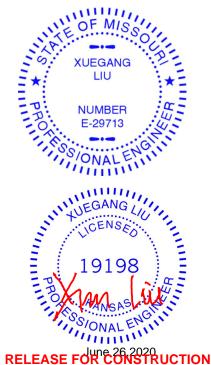
TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **WEBS** 2x3 SPF No.2

REACTIONS. 1=2-6-8, 3=2-6-8 (size) Max Horz 1=39(LC 5) Max Uplift 1=-11(LC 8), 3=-20(LC 8) Max Grav 1=83(LC 1), 3=83(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=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge R0 Chesterfield, MO 63017

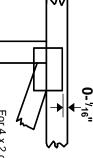
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Symbols

PLATE LOCATION AND ORIENTATION



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



plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

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

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

PLATE SIZE



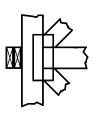
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

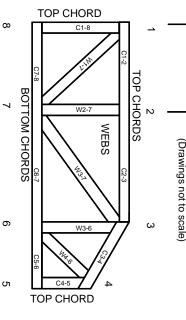
DSB-89:

Building Component Safety Information Guide to Good Practice for Handling Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

Numbering System

6-4-8

dimensions shown in ft-in-sixteenths



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

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

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

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

- Failure to Follow Could Cause Property Reviews Reviews 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 Summit, South Summit Property Reviews Summit Summit

07/27/2020

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

bracing should be considered

ω

- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

5

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

7.

- 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.