



RE: 210463 Lot 153 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210463

Lot/Block: Model:
Address: Subdivision:
City: State:

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: ASCE716LowRise Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 71 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	146562076	A5	6/15/2021	21	146562096	E2	6/15/2021
2	146562077	A6	6/15/2021	22	146562097	E3	6/15/2021
3	146562078	A7	6/15/2021	23	146562098	E4	6/15/2021
4	146562079	A8	6/15/2021	24	146562099	E5	6/15/2021
5	146562080	A9	6/15/2021	25	I46562100	E6	6/15/2021
6	146562081	B1	6/15/2021	26	I46562101	E7	6/15/2021
7	146562082	B2	6/15/2021	27	146562102	E8	6/15/2021
8	146562083	C1	6/15/2021	28	I46562103	E9	6/15/2021
9	146562084	C2	6/15/2021	29	146562104	E10	6/15/2021
10	146562085	C3	6/15/2021	30	146562105	E11	6/15/2021
11	146562086	C4	6/15/2021	31	146562106	G1	6/15/2021
12	146562087	C5	6/15/2021	32	I46562107	G2	6/15/2021
13	146562088	C6	6/15/2021	33	I46562108	H1	6/15/2021
14	146562089	C7	6/15/2021	34	I46562109	H2	6/15/2021
15	146562090	C8	6/15/2021	35	I46562110	H3	6/15/2021
16	I46562091	C9	6/15/2021	36	I46562111	J1	6/15/2021
17	146562092	C10	6/15/2021	37	I46562112	J2	6/15/2021
18	146562093	D1	6/15/2021	38	I46562113	J3	6/15/2021
19	146562094	D2	6/15/2021	39	146562114	J4	6/15/2021
20	146562095	E1	6/15/2021	40	146562115	J5	6/15/2021

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.





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Site Information:

Project Name: 210463

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

•	•		
No.	Seal#	Truss Name	Date
41	I46562116	J6	6/15/2021
42	146562117	J7	6/15/2021
43	I46562118	J8	6/15/2021
44	I46562119	J9	6/15/2021
45	I46562120	J10	6/15/2021
46	I46562121	J11	6/15/2021
47	I46562122	J12	6/15/2021
48	I46562123	J15	6/15/2021
49	146562124	J16	6/15/2021
50	I46562125	J17	6/15/2021
51	I46562126	J18	6/15/2021
52	146562127	J19	6/15/2021
53	146562128	J20	6/15/2021
54	146562129	J21	6/15/2021
55	I46562130	K1	6/15/2021
56	I46562131	K2	6/15/2021
57	146562132	K3	6/15/2021
58	I46562133	L1	6/15/2021
59	I46562134	L2	6/15/2021
60	146562135	L3	6/15/2021
61	146562136	LAY1	6/15/2021
62	146562137	LAY2	6/15/2021
63	I46562138	LAY3	6/15/2021
64	146562139	V1	6/15/2021
65	146562140	V3	6/15/2021
66	I46562141	V4	6/15/2021
67	146562142	V5	6/15/2021
68	146562143	V6	6/15/2021
69	146562144	V7	6/15/2021
70	146562145	V8	6/15/2021
71	I46562146	V9	6/15/2021



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10	146562085	C3	6/15/2021	30	I46562105	E11	6/15/2021
11	146562086	C4	6/15/2021	31	I46562106	G1	6/15/2021
12	146562087	C5	6/15/2021	32	146562107	G2	6/15/2021
13	146562088	C6	6/15/2021	33	146562108	H1	6/15/2021
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20	146562095	E1	6/15/2021	40	I46562115	J5	6/15/2021

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 Missouri is December 31, 2022.

Missouri COA: 001193

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



June 15, 2021



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City, County: State:

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57	146562132	K3	6/15/2021
58	I46562133	L1	6/15/2021
59	I46562134	L2	6/15/2021
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63	I46562138	LAY3	6/15/2021
64	146562139	V1	6/15/2021
65	146562140	V3	6/15/2021
66	I46562141	V4	6/15/2021
67	146562142	V5	6/15/2021
68	146562143	V6	6/15/2021
69	146562144	V7	6/15/2021
70	146562145	V8	6/15/2021
71	I46562146	V9	6/15/2021

Job Truss Truss Type Qty Ply Lot 153 HT 146562076 210463 **A5** Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:25:41 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-TjgPjZv_zdNWPV8Kb7luS9?ZzHzWWNqz4cyKBMz6Mve 14-0-0 10-0-0 12-0-0 0-10-8

3-0-0

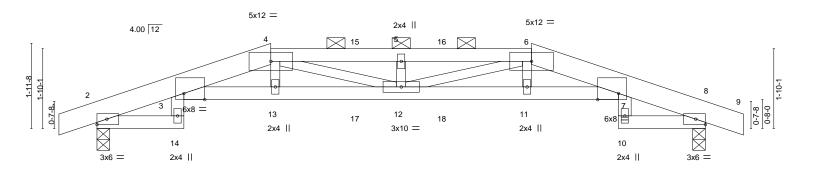
2-0-0

2-0-0

3-0-0

Scale = 1:26.5

0-10-8



	-	2-0-0	4-0-0	7-0-0			10-0-0			12-0-0	14-0-0	
DI-1- 0#-	-1- ()()()	2-0-0	2-0-0	3-0-0	· ·		3-0-0			2-0-0	2-0-0	
Plate Offse	ets (X,Y)	[3:0-5-12,Edge], [7:0-5-12,Eage]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	FL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip	DOL 1.15	TC 0.65	Ve	rt(LL)	-0.21	12	>786	360	MT20	197/144
TCDL	10.0	Lumber DC	DL 1.15	BC 0.53	Ve	rt(CT)	-0.38	12	>432	240		
BCLL	0.0 *	Rep Stress	Incr NO	WB 0.19	Ho	rz(CT)	0.24	8	n/a	n/a		
BCDL	10.0	Code IRC2	2018/TPI2014	Matrix-S	Wi	nd(LL)	0.17	12	>989	240	Weight: 55 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x6 SP DSS *Except* TOP CHORD

2-0-0

4-6: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x4 SPF 2400F 2.0E WEBS

2x3 SPF No.2 *Except* 3-14,7-10: 2x4 SPF No.2

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

Max Horz 2=28(LC 8)

2-0-0

Max Uplift 2=-217(LC 4), 8=-217(LC 5) Max Grav 2=1028(LC 1), 8=1028(LC 1)

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

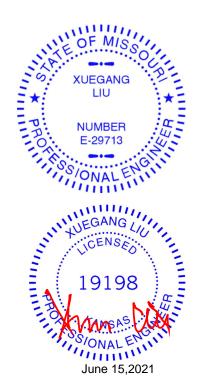
TOP CHORD 2-3=-447/102, 3-4=-3431/606, 4-5=-3883/671, 5-6=-3883/671, 6-7=-3431/592,

BOT CHORD 3-13=-576/3427, 12-13=-572/3435, 11-12=-537/3435, 7-11=-541/3427

WEBS 4-12=-94/539, 6-12=-94/539

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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=217. 8=217.
- 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) 81 lb down and 52 lb up at 4-0-0, 81 lb down and 52 lb up at 6-0-0, and 81 lb down and 52 lb up at 8-0-0, and 81 lb down and 52 lb up at 10-0-0 on top chord, and 231 lb down and 65 lb up at 4-0-0, 34 lb down at 6-0-0, and 34 lb down at 8-0-0, and 231 lb down and 65 lb up at 9-11-4 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



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

2-0-0 oc purlins (3-9-2 max.): 4-6.

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

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	Lot 153 HT
040400	45	I lia Ciada	_		146562076
210463	A5	Hip Girder	1	1	
					Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:25:41 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-TjgPjZv_zdNWPV8Kb7luS9?ZzHzWWNqz4cyKBMz6Mve

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, 6-9=-70, 2-14=-20, 3-7=-20, 8-10=-20

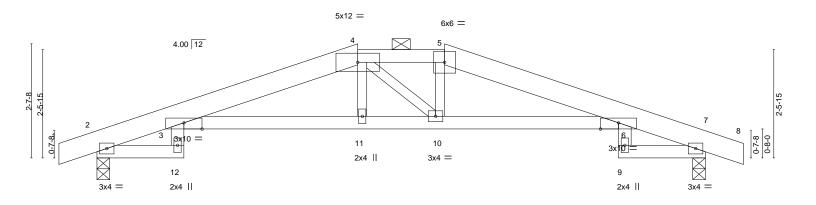
Concentrated Loads (lb)

Vert: 4=-37(F) 6=-37(F) 13=-231(F) 11=-231(F) 15=-37(F) 16=-37(F) 17=-34(F) 18=-34(F)



Job Truss Truss Type Qty Ply Lot 153 HT 146562077 210463 A6 Hip | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:42 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-xvEnwvwckxVN1fjW9qp7_NYichJ1FsF7JGitjpz6Mvd 14-0-0 14-10-8 12-0-0 0-10-8 2-0-0 4-0-0 2-0-0 4-0-0 2-0-0 0-10-8

Scale = 1:26.5



<u> </u>	2-0-0	6-0-0 4-0-0		8-0-0 2-0-0	12-0-0 4-0-0		14-0-0	
Plate Offsets (X,Y)	[3:0-5-0,Edge], [6:0-5-0			2 0 0	400			
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/	2-0-0 1.15 1.15 YES	CSI. TC 0.72 BC 0.57 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) l/defl -0.15 6-10 >999 -0.28 3-11 >596 0.23 7 n/a 0.11 3-11 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 50 lb	GRIP 197/144 FT = 10%

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, 4-5: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (4-10-5 max.): 4-5. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 2=-40(LC 13)

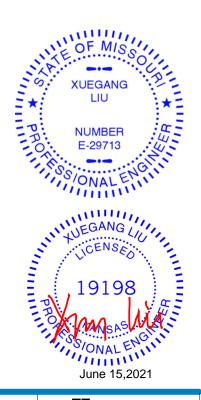
3-12,6-9: 2x4 SPF No.2

Max Uplift 2=-141(LC 4), 7=-141(LC 5) Max Grav 2=688(LC 1), 7=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-284/69, 3-4=-1439/199, 4-5=-1387/198, 5-6=-1440/185, 6-7=-284/62

BOT CHORD 3-11=-156/1386, 10-11=-152/1387, 6-10=-124/1386

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

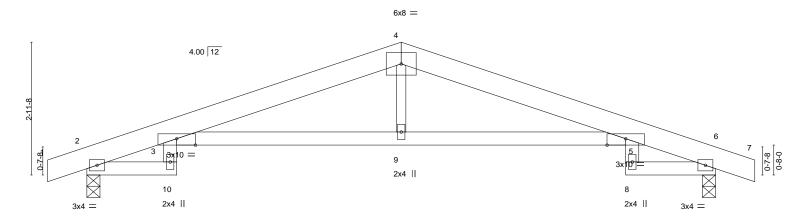






Job Truss Truss Type Qty Lot 153 HT 146562078 210463 Α7 Roof Special 2 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:43 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Q6o98FwEVFdEepljjYKMXa5t25fG_IAGYwRRFFz6Mvc 14-0-0 2-0-0 2-0-0 7-0-0 5-0-0 12-0-0 0-10-8 5-0-0 2-0-0 0-10-8

Scale = 1:25.7



Dista Office		2-0-0 2-0-0		7-0-0 5-0-0		-			-0-0 -0-0		14-0-0 2-0-0	
Plate Offse	ts (X,Y)	[3:0-5-0,Edge], [5:0-5-0,Edge]	gej									
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 0.74		Vert(LL)	-0.16	5-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.57	·	Vert(CT)	-0.30	5-9	>544	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.07	·	Horz(CT)	0.24	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix-S		Wind(LL)	0.12	3-9	>999	240	Weight: 49 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 4-9: 2x3 SPF No.2

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

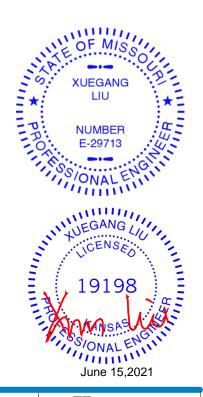
Max Horz 2=-46(LC 13)

Max Uplift 2=-134(LC 4), 6=-134(LC 5) Max Grav 2=688(LC 1), 6=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-284/70, 3-4=-1365/147, 4-5=-1365/161, 5-6=-284/59 BOT CHORD 3-9=-102/1304, 5-9=-102/1304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 6=134,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



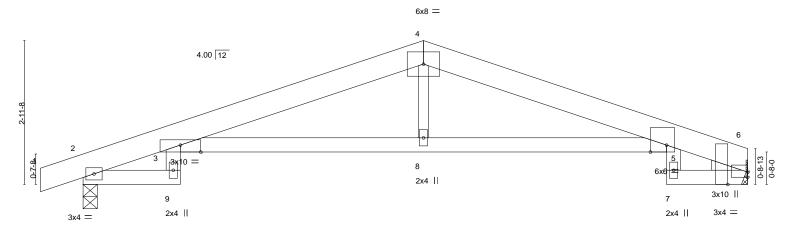
Structural wood sheathing directly applied or 3-9-8 oc purlins.

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



Job	Truss	Truss Type	Qty	Ply	Lot 153 HT	
040400	40	Deet Consist				146562079
210463	A8	Roof Special	1	1	Job Reference (optional)	
Wheeler Lumber,	Waverly, KS - 66871	1,	<u> </u>	8.430 s Jui	n 2 2021 MiTek Industries, Inc. Mon Ju	n 14 12:25:43 2021 Page 1
			ID:Lek3CAANj_	YbKvtCQHtr	mQzKvNM-Q6o98FwEVFdEepljjYKMXa	5tE5fS_IBGYwRRFFz6Mvc
0-10-8	2-0-0	7-0-0			12-0-0	13-8-0
0-10-8	2-0-0	5-0-0	'		5-0-0	1-8-0

Scale = 1:23.7



		2-0-0	7-0-0	1	12-0-0	1	13-8-0
	ı	2-0-0	5-0-0	ı	5-0-0	· ·	1-8-0
Plate Offse	ets (X,Y)	[3:0-5-0,Edge], [5:0-4-0,Edge], [6:0-0	·0,0-1-4], [6:0-3-1,Edge]				
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 0.73	Vert(LL)	-0.15 3-8 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.56	Vert(CT)	-0.28 3-8 >571 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.23 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.11 3-8 >999 240	Weight: 47 lb	FT = 10%
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.56 WB 0.07	Vert(CT) Horz(CT)	-0.28 3-8 >571 240 0.23 6 n/a n/a		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 4-8: 2x3 SPF No.2

WEDGE Right: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=47(LC 12)

Max Uplift 2=-134(LC 4), 6=-87(LC 5) Max Grav 2=680(LC 1), 6=603(LC 1)

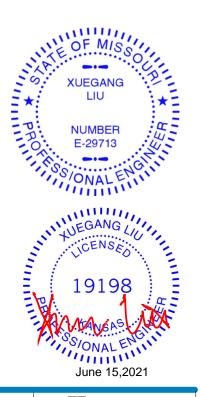
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-279/67, 3-4=-1325/148, 4-5=-1330/160, 5-6=-315/60

BOT CHORD 3-8=-101/1264, 5-8=-101/1264

NOTES-

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



Structural wood sheathing directly applied or 3-11-6 oc purlins.

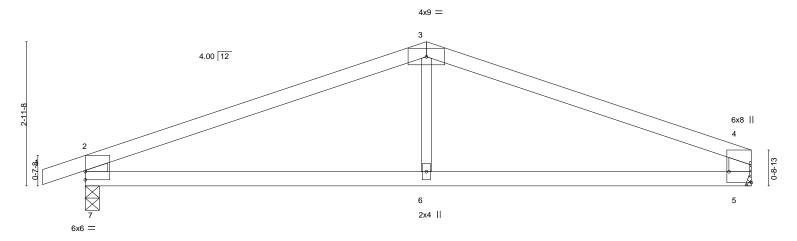
Rigid ceiling directly applied or 10-0-0 oc bracing.





Job	Truss	Truss Type	Qty	Ply	Lot 153 HT
					146562080
210463	A9	Common	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s Jun	2 2021 MiTek Industries, Inc. Mon Jun 14 12:25:44 2021 Page 1
		ID:Lel	c3CAANj_c	YbKvtCQI	HtmQzKvNM-uILXLbxsGYl5GztvHFrb3od5ZU0ajlAPnaB_ohz6Mvb
-0-10-8		7-0-0			13-8-0
0-10-8		7-0-0			6-8-0

Scale = 1:23.6



 	7-0-0 7-0-0		-		13-8 6-8-		
Plate Offsets (X,Y) [4:Edge,0-5-8], [7:0-0-0,0-2-0]				0.0		
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 0.56 BC 0.44 WB 0.08 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) l/d -0.06 6-7 >9 -0.14 6-7 >9 0.02 5 r 0.04 6-7 >9	99 360 99 240 n/a n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

3-6: 2x3 SPF No.2

(size) 7=0-3-8, 5=Mechanical Max Horz 7=39(LC 12)

Max Uplift 7=-136(LC 4), 5=-85(LC 5) Max Grav 7=675(LC 1), 5=591(LC 1)

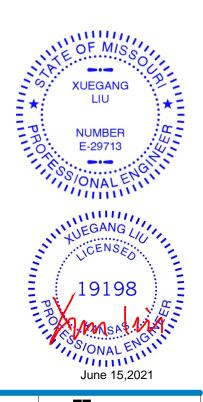
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-915/120, 3-4=-909/120, 2-7=-606/179, 4-5=-510/123

BOT CHORD 6-7=-62/788, 5-6=-62/788

WEBS 3-6=0/264

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



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

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

except end verticals.



Job Truss Truss Type Qty Lot 153 HT 146562081 210463 **B1** Monopitch 5 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:45 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-MUvwYxyV1styu6S5qzMqc?AFQuN_S7ZZ?EwXK8z6Mva 0-10-8 8-0-0

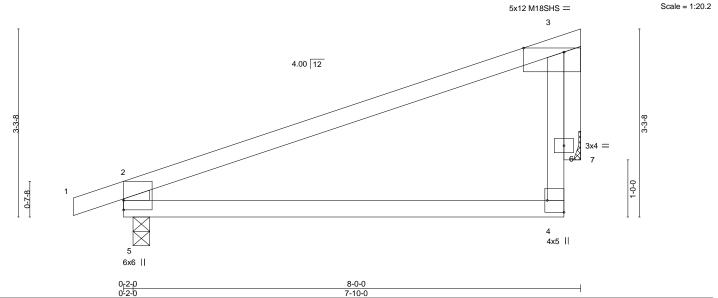


Plate Offsets (X,Y)	Plate Offsets (X,Y) [3:0-8-8,Edge], [4:Edge,0-3-8]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP								
TCLL 25.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.06 4-5 >999 360	MT20 197/144								
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.13 4-5 >710 240	M18SHS 197/144								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.01 7 n/a n/a									
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04 4-5 >999 240	Weight: 25 lb FT = 10%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 *Except* 2-5: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 5=99(LC 5)

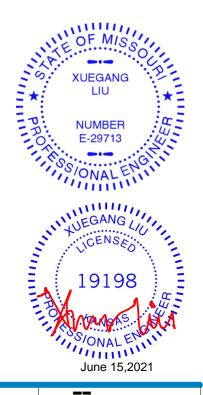
Max Uplift 5=-94(LC 4), 7=-77(LC 8) Max Grav 5=429(LC 1), 7=308(LC 1)

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

TOP CHORD 2-3=-306/27, 3-6=-295/241, 2-5=-385/152

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) All plates are MT20 plates unless otherwise indicated.
- 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, 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 6-0-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 153 HT 146562082 210463 B2 Monopitch 3 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:46 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qgTImHz7oA?pVG1IOgt39DjTnImyBg_iEug5saz6MvZ 8-0-0 0-10-8 6-1-8 1-10-8 Scale = 1:19.3 4x9 = 4.00 12 3 2-8-0 3x4 = 8 9 0-7-8

Plate Off	sets (X,Y)	[3:0-5-8,Edge], [5:Edge,0)-2-8]										
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	0.39	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	5-6	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	5-6	>999	240	Weight: 21 lb	FT = 10%	

BOT CHORD

3x6 ||

except end verticals.

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

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

LUMBER-BRACING-TOP CHORD

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

2-6: 2x6 SPF No.2 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 8=0-3-8

Max Horz 6=113(LC 5)

Max Uplift 6=-63(LC 4), 8=-130(LC 8) Max Grav 6=318(LC 1), 8=413(LC 1)

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

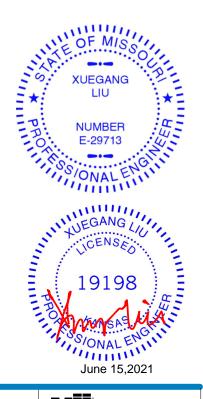
3x6 II

TOP CHORD 2-6=-278/108

NOTES-

OTHERS

- 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.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=130.
- 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.





Job Truss Truss Type Qty Lot 153 HT 146562083 210463 C₁ Roof Special Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:47 2021 | Page 1

4x5 =

Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-lt1gzczIYT8g7QbUyOOlhQFjUi8Vw7JsTYPeO0z6MvY

Scale = 1:35.6

21-4-0 0-10-8 11-3-5 11-3-5

4.00 12 8 6.00 12 3 5-4-10 10 11 12 1-7-8 13 26 25 24 23 22 21 20 19 18 17 16 15 14 3x10 || 3x4 =

Plate Off	sets (X,Y)	[7:0-2-11,0-2-4]		
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 0.07	Vert(LL) -0.00 13 n/r 120 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 13 n/r 120
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 14 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 83 lb FT = 10%

LUMBER-BRACING-

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

REACTIONS. All bearings 20-5-8.

Max Horz 26=84(LC 7) (lb) -

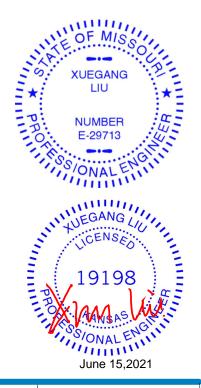
2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 26, 14, 21, 22, 23, 24, 25, 19, 17, 16, 15 All reactions 250 lb or less at joint(s) 26, 14, 20, 21, 22, 23, 24, 25, 19, 17, 16, 15

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

OTHERS

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 26, 14, 21, 22, 23, 24, 25, 19, 17, 16, 15.
- 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.







ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-EF9QOI??45OOMkls3pRmmrKvpVhUOxa9wsulTvz6MvW 21-4-0 0-10-8 16-9-15 20-5-8 5-9-13 5-5-7 5-6-11 3-7-9

Scale = 1:35.3

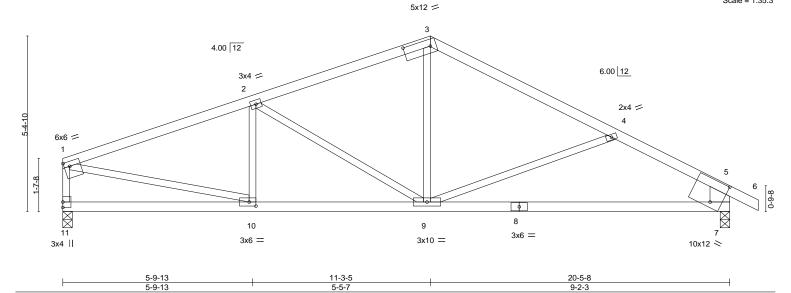


Plate Off	rsets (X,Y)	[1:0-2-0,0-1-12], [3:0-9-13,0-2-8],	[7:0-4-1,0-8-2], [10:0-2-8,0-1-8	3]					
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL)	-0.17	7-9 :	>999 360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.58	Vert(CT)	-0.33	7-9 :	>721 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT)	0.03	7	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.05	9-10 :	>999 240	Weight: 73 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

3-6: 2x4 SPF 2100F 1.8E

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

5-7: 2x8 SP DSS

REACTIONS. (size) 11=0-3-8, 7=0-3-8

Max Horz 11=86(LC 7)

Max Uplift 11=-130(LC 4), 7=-130(LC 9) Max Grav 11=900(LC 1), 7=987(LC 1)

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

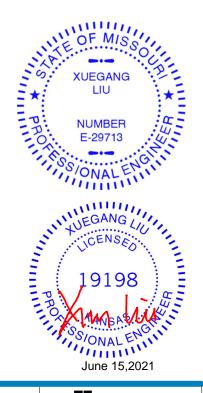
TOP CHORD 1-2=-1319/196, 2-3=-1034/150, 3-4=-1083/158, 4-5=-1296/210, 1-11=-841/160,

5-7=-889/178

BOT CHORD 9-10=-159/1198, 7-9=-128/1046

WEBS 2-9=-388/153, 3-9=-0/409, 1-10=-141/1142

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=130, 7=130.
- 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 4-7-1 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Ply Lot 153 HT 146562085 210463 C3 Roof Special Girder | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:51 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

Structural wood sheathing directly applied or 3-10-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 3-6.

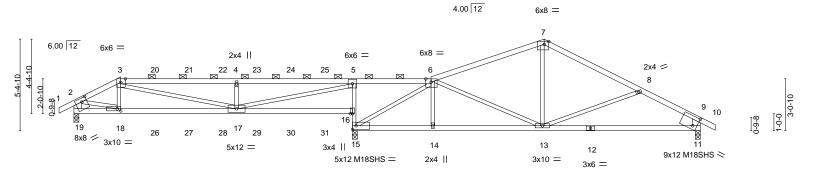
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 16-17

3-5-15 oc bracing: 15-16.

ID:Lek3CAANj_qYbKvtCQHtmQzKvNM-BeGBp_0Fcie6c1vFBDTEsGQE8JK2sjHROANsXnz6MvU 33-2-8 36-10-0 37-8-8 0-10-8 0-10-8 2-9-0 6-9-12 6-9-12 4-7-8 6-7-13 5-6-11 3-7-8

Scale = 1:67.7



2-9-0_3	3 ₁ 2 ₁ 0 9-6-12 ₁	16-4-8 16 ₁ 6-4	21-0-0 21-7 _T 8	27-7-13	36-10-0	
2-9-0	0-5-0 6-4-12	6-9-12 0-1 [!] -12	4-5-12 0-7-8	6-0-5	9-2-3	1
Plate Offsets (X,Y)	[3:0-3-4,Edge], [6:0-3-12,0-2-4], [7:0-	3-3,Edge], [11:0-2-14,0-6-8	3], [18:0-2-8,0-1-8],	[19:0-3-8,0-2-8]		
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 0.80	Vert(LL)	-0.16 11-13 >999	360 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT)	-0.33 11-13 >733	240 M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT)	-0.03 15 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.12 17-18 >999	240 Weight: 129 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

3-6,7-10: 2x4 SPF 2100F 1.8E 2x4 SPF No.2 *Except*

5-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-19,9-11: 2x6 SP DSS

REACTIONS. (size) 19=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 19=-92(LC 9)

Max Uplift 19=-266(LC 8), 15=-361(LC 8), 11=-151(LC 30) Max Grav 19=1134(LC 21), 15=2016(LC 1), 11=943(LC 1)

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

TOP CHORD 2-3=-1610/351, 3-4=-2387/550, 4-5=-2387/550, 6-7=-984/175, 7-8=-1019/171,

8-9=-1248/248, 2-19=-1140/256, 9-11=-847/198

BOT CHORD 17-18=-318/1440, 15-16=-1276/306, 5-16=-1166/349, 14-15=-188/944, 13-14=-186/948,

11-13=-161/1010

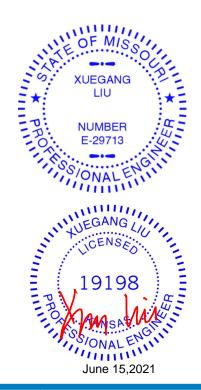
WEBS 3-17=-244/978, 4-17=-681/330, 5-17=-555/2633, 6-15=-1344/186, 7-13=0/364,

2-18=-283/1441

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) 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) 19=266 15=361 11=151 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) 100 lb down and 68 lb up at 4-8-2, 100 lb down and 68 lb up at 6-8-2, 100 lb down and 68 lb up at 10-8-2, and 100 lb down and 68 lb up at 12-8-2, and 100 lb down and 68 lb up at 14-8-2 on top chord, and 217 lb down and 84 lb up at 2-9-0, 33 lb down at 4-8-2, 33 lb down at 6-8-2, 33 lb down at 8-8-2, 33 lb down at 10-8-2, and 33 lb down at 12-8-2, and 33 lb down at 14-8-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Odntinuted வெள்ள as front (F) or back (B)



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



Job	Truss	Truss Type	Qty	Ply	Lot 153 HT	
240.462	03	Roof Special Girder	_	_	14656208	5
210463	C3	Rooi Special Gilder	1	'	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:25:51 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-BeGBp_0Fcie6c1vFBDTEsGQE8JK2sjHROANsXnz6MvU

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, 3-6=-70, 6-7=-70, 7-9=-70, 9-10=-70, 16-19=-20, 11-15=-20

Concentrated Loads (lb)

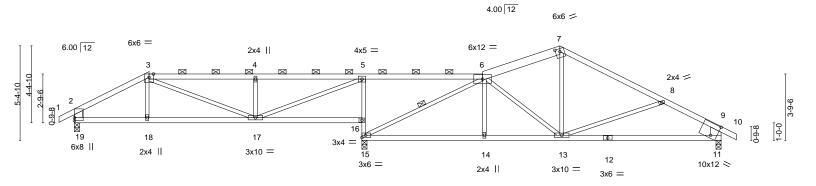
Vert: 18=-217(B) 20=-50(B) 21=-50(B) 22=-50(B) 23=-50(B) 24=-50(B) 25=-50(B) 26=-24(B) 27=-24(B) 28=-24(B) 29=-24(B) 30=-24(B) 31=-24(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 153 HT 146562086 210463 C4 Roof Special | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:52 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fqqZ1K1uN0myDBURIx_TOUyRpjjVbDrbcp7P4Ez6MvT 23-3-0 27-7-13 36-10-0 6-0-12 6-0-12 6-10-8 4-4-13 5-9-10 3-4-9

Scale = 1:65.6



4-3-0	0 10-3-12	16-4-8 16 ₁ 6-4	23-3-0	27-7-13	36-10-0
4-3-0	0 6-0-12	6-0-12 0-1 ¹ -12	6-8-12	4-4-13	9-2-3
Plate Offsets (X,Y)	[7:0-3-0,0-1-15], [11:0-4-1,0-8-2]				
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)	-0.16 11-13 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT)	-0.32 11-13 >754 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT)	-0.04 15 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.06 17-18 >999 240	Weight: 132 lb FT = 10%

TOP CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

6-7: 2x6 SPF No.2, 7-10: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

WEBS 2x3 SPF No.2 *Except*

2-19: 2x6 SPF No.2, 9-11: 2x8 SP DSS

BOT CHORD 5-15: 2x3 SPF No.2

Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-6. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 16-17

4-0-1 oc bracing: 15-16. 1 Row at midpt

REACTIONS. (size) 19=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 19=-90(LC 9)

Max Uplift 19=-150(LC 8), 15=-285(LC 8), 11=-143(LC 9) Max Grav 19=764(LC 21), 15=1724(LC 1), 11=944(LC 1)

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

TOP CHORD 2-3=-975/180, 3-4=-1041/223, 4-5=-1039/221, 6-7=-942/168, 7-8=-1016/139,

8-9=-1225/233, 2-19=-676/164, 9-11=-848/191

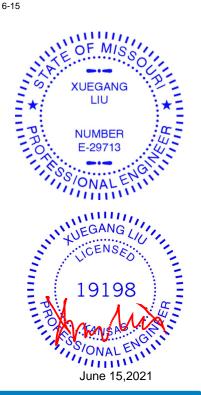
BOT CHORD 18-19=-125/793, 17-18=-127/792, 15-16=-1053/257, 5-16=-988/287, 14-15=-94/1032,

13-14=-92/1035, 11-13=-150/986

3-17=-95/268, 4-17=-456/188, 5-17=-231/1305, 6-15=-1329/155, 6-13=-308/100, WEBS

7-13=0/387

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=150, 15=285, 11=143.
- 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.



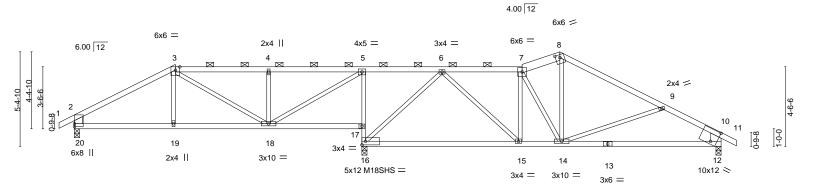




Job Truss Truss Type Qty Ply Lot 153 HT 146562087 210463 C5 Roof Special | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:53 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-71OxEg2W8JuprL3eleVixhVcT71YKd_krTszcgz6MvS 25-6-0 27-7-13 33-5-7 36-10-0 -0-10-8 0-10-8 5-3-12 5-3-12 4-6-12 4-6-12 2-1-13 5-9-10 3-4-9

Scale = 1:65.6



L	5-	-9-0	11-0)-12	16-4-8	16 ₇ 6-4	25-6-	-0	27-7-1	3 ₁	36-10-0	
	5-	-9-0	5-3-	-12	5-3-12	0-1 - 12	8-11-	12	2-1-1	3 '	9-2-3	1
Plate Offsets	s (X,Y)	[8:0-3-0,0-1-15], [12:0-4-1	,0-8-2]								
LOADING ((psf)	SPACIN	IG-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Gr	ip DOL	1.15	TC	0.68	Vert(LL)	-0.19 15-16	>999	360	MT20	197/144
TCDL 1	10.0	Lumber	DOL	1.15	BC	0.64	Vert(CT)	-0.39 15-16	>614	240	M18SHS	197/144
BCLL	0.0 *	Rep Str	ess Incr	YES	WB	0.94	Horz(CT)	-0.04 16	n/a	n/a		
BCDL 1	10.0	Code IF	RC2018/TP	12014	Matrix	(-S	Wind(LL)	0.05 18-19	>999	240	Weight: 136 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

7-8: 2x6 SPF No.2, 8-11: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 5-16: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-20: 2x6 SPF No.2, 10-12: 2x8 SP DSS

REACTIONS. (size) 20=0-3-8, 16=0-3-8, 12=0-3-8

Max Horz 20=-90(LC 9)

Max Uplift 20=-154(LC 8), 16=-277(LC 8), 12=-147(LC 9) Max Grav 20=776(LC 21), 16=1706(LC 1), 12=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-956/186, 3-4=-764/199, 4-5=-762/197, 6-7=-994/162, 7-8=-921/174,

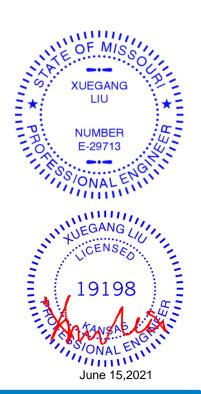
8-9=-1032/147, 9-10=-1236/239, 2-20=-699/188, 10-12=-855/194 **BOT CHORD**

19-20=-111/760, 18-19=-113/758, 16-17=-941/211, 5-17=-878/236, 15-16=-73/608,

14-15=-55/998, 12-14=-155/996 4-18=-411/173, 5-18=-182/1016, 6-16=-1000/175, 6-15=0/532, 7-14=-365/86, WEBS

8-14=-25/415

- 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) 20=154 16=277 12=147
- 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 4-11-5 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-6-14 max.): 3-7.

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

6-0-0 oc bracing: 17-18

4-4-0 oc bracing: 16-17.

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

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



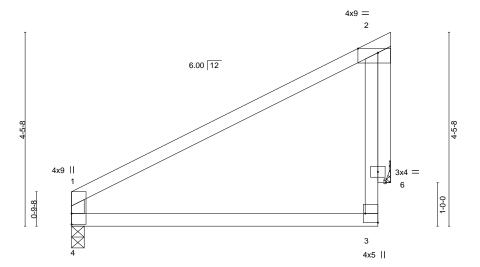
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 153 HT 146562088 210463 C6 Monopitch

Wheeler Lumber, Waverly, KS - 66871, | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:54 2021 | Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-bDyJR038vd0gTVeqsM1xTv2pYWT63DZu47cW86z6MvR 7-4-0

Scale = 1:26.5



7-4-0

Plate Off	sets (X,Y)	[2:0-5-8,Edge], [3:Edge,0	-3-8]									
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	0.53	Vert(LL)	-0.05	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	3-4	>822	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.04	3-4	>999	240	Weight: 26 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD

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

except end verticals.

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

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

Max Horz 4=113(LC 8)

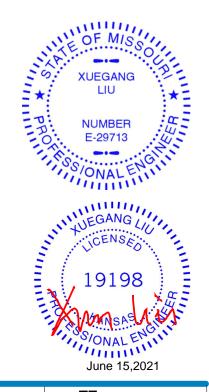
Max Uplift 4=-18(LC 8), 6=-96(LC 8) Max Grav 4=320(LC 1), 6=288(LC 1)

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

TOP CHORD 1-4=-281/78

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) 4, 6.
- 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.





Job Truss Truss Type Qty Lot 153 HT 146562089 210463 C7 Roof Special Girder | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:55 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3PWifM4mgx8X4fD0Q3YA06a13wliohS1InL3gYz6MvQ -0-10-8 0-10-8 1-6-0 4-0-0

Scale = 1:22.1 2x4 || 6x6 = 4x5 = 6.00 12 2 8-6-0 7 3x4 = 6 3x6 = 4x9 ||

9-4-0

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

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

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

			1-6-0			4-0-	0	1			3-10-0	1	
LOADIN	\(\frac{1}{2}\)	SPACING			CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip	DOL 1.	15	TC	0.35	Vert(LL)	-0.11	6-7	>971	360	MT20	197/144
TCDL	10.0	Lumber D	OL 1.	15	BC	0.53	Vert(CT)	-0.23	6-7	>467	240		
BCLL	0.0 *	Rep Stres	s Incr N	10	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC	2018/TPI201	4	Matri	x-S	Wind(LL)	0.02	6-7	>999	240	Weight: 36 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

5-6-0

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 4-5: 2x6 SPF No.2

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

2-8: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 8=0-3-8

Max Horz 8=133(LC 5)

Max Uplift 6=-85(LC 8), 8=-92(LC 8) Max Grav 6=405(LC 1), 8=483(LC 1)

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

1-6-0

2-3=-562/14, 3-4=-438/35, 2-8=-439/35 TOP CHORD

BOT CHORD 7-8=-60/449, 6-7=-192/732

WEBS 3-7=0/286, 4-7=-306/180, 4-6=-748/236

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.
- 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 76 lb up at 1-6-0 on top chord, and 11 lb down and 1 lb up at 1-6-0 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

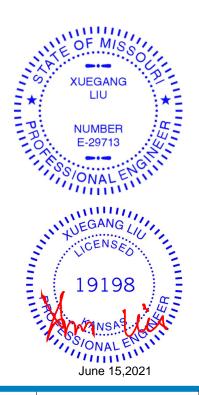
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

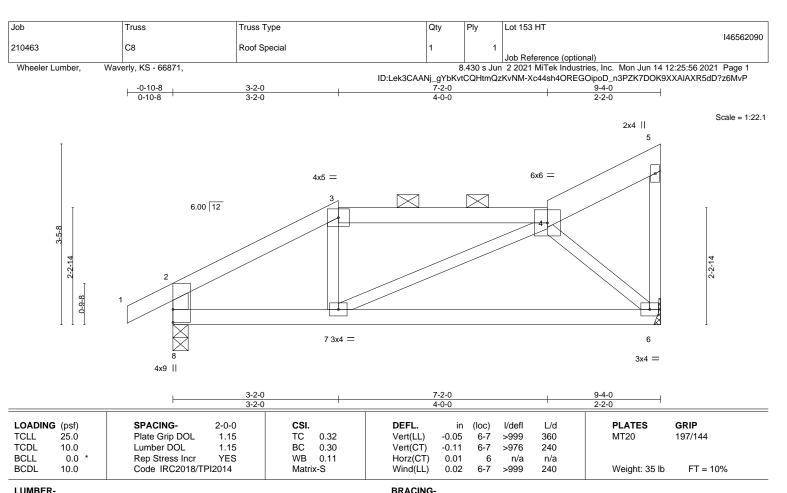
Concentrated Loads (lb)

Vert: 7=1(F)









TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2

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

2-8: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 8=0-3-8

Max Horz 8=133(LC 5)

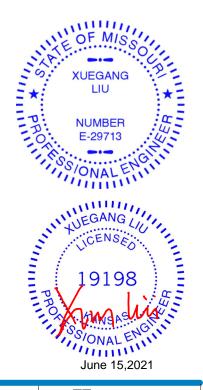
Max Uplift 6=-85(LC 8), 8=-91(LC 8) Max Grav 6=405(LC 1), 8=484(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-535/72, 3-4=-421/90, 2-8=-433/95

7-8=-68/420, 6-7=-72/329 BOT CHORD

WEBS 4-6=-441/143

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

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

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



Job Truss Truss Type Qty Lot 153 HT 146562091 210463 C9 Half Hip | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:57 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-?oeS4150CYOFKyMPXUae5XgHHkSIGYOKm5qAIRz6MvO -0-10-8 0-10-8 7-3-0 3-7-2 3-7-14 Scale = 1:28.5 6x6 = 3x6 II \times 6.00 12 2x4 < -3-6 7 6 3x4 =6x8 || 3x6 =7-1-0 Plate Offsets (X,Y)--[5:Edge,0-2-8] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP 25.0 Plate Grip DOL TCLL 1.15 TC 0.75 Vert(LL) -0.07 6-7 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.43 Vert(CT) -0.15 6-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.40 Horz(CT) 0.01 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.03 6-7 >999 240 Weight: 51 lb Matrix-S LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

WEBS

REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2

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

Max Uplift 6=-113(LC 5), 8=-101(LC 8) Max Grav 6=627(LC 1), 8=710(LC 1)

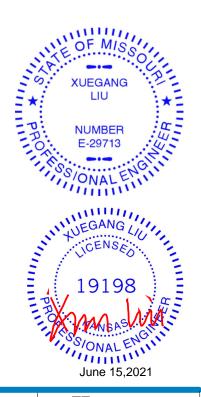
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-837/129, 3-4=-687/79, 2-8=-636/135 TOP CHORD

Max Horz 8=174(LC 5)

7-8=-164/656, 6-7=-127/596 BOT CHORD **WEBS** 4-7=0/306, 4-6=-654/100

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=113, 8=101
- 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 4-11-2 oc purlins,

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

4-6

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

1 Row at midpt



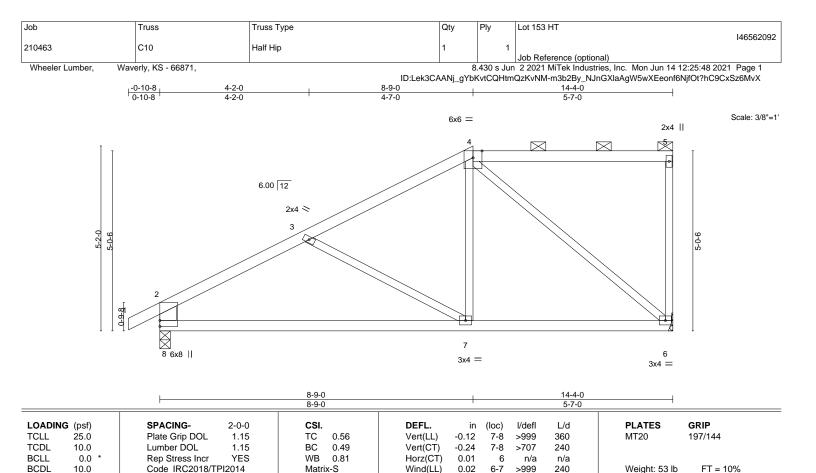
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

WEBS

2x4 SPF No.2 2x4 SPF No.2

2x3 SPF No.2 *Except*

2-8: 2x6 SPF No.2

REACTIONS. (size) 6=Mechanical, 8=0-3-8

Max Horz 8=205(LC 5)

Max Uplift 6=-110(LC 5), 8=-108(LC 8) Max Grav 6=627(LC 1), 8=710(LC 1)

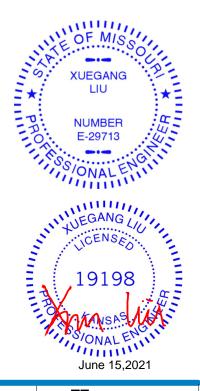
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-842/157, 3-4=-584/80, 2-8=-621/153 TOP CHORD

BOT CHORD 7-8=-178/670, 6-7=-107/475 WFBS 4-7=0/351, 4-6=-616/85

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=110, 8=108
- 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 5-4-1 oc purlins,

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.



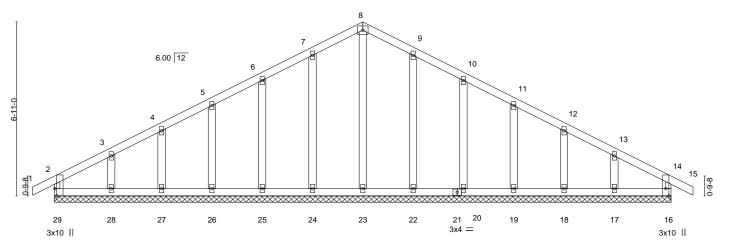


Job Truss Truss Type Qty Lot 153 HT 146562093 210463 D1 Common Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:25:58 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-T_CqHN6fzsW6y6xb5C5telCbe8u6?4CT?lajHtz6MvN 25-4-8 0-10-8 24-6-0 -0-10-8 0-10-8 12-3-0 12-3-0

4x5 =

Scale = 1:45.8



24-6-0

Plate Off	sets (X,Y)	[29:0-3-8,Edge]										
LOADIN	(I /		-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.08	Vert(LL)	-0.00	15	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	BC	0.04	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matri	x-R						Weight: 108 lb	FT = 10%

LUMBER-BRACING-

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

REACTIONS. All bearings 24-6-0.

Max Horz 29=105(LC 7) (lb) -

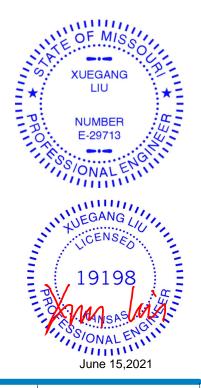
2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 24, 25, 26, 27, 28, 22, 20, 19, 18, 17 All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 22, 20, 19, 18, 17

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

OTHERS

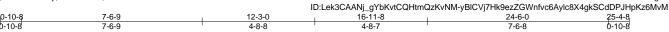
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 29, 16, 24, 25, 26, 27, 28, 22, 20, 19, 18, 17.
- 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.









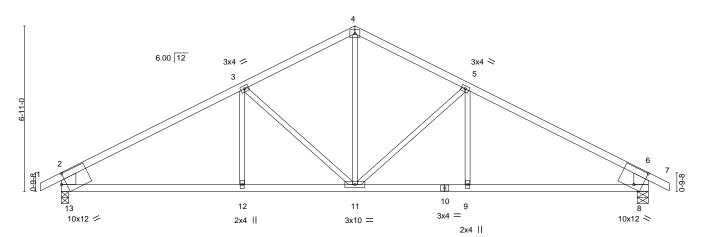


Scale: 1/4"=1" 4x5 =

Structural wood sheathing directly applied or 4-10-1 oc purlins,

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

except end verticals.



I	7-6-9 7-6-9	12-3-0 4-8-8	16-11-8 4-8-7	24-6-0 7-6-8	—
Plate Offsets (X,Y)	[8:0-4-1,0-8-2], [13:0-2-7,0-4-14]				
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 0.73 BC 0.66 WB 0.45 Matrix-S	DEFL. in (loc) Vert(LL) -0.13 9-11 Vert(CT) -0.24 9-11 Horz(CT) 0.05 8 Wind(LL) 0.07 9-11	I/defi	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 *Except* 2-13,6-8: 2x8 SP DSS

REACTIONS. (size) 13=0-3-8, 8=0-5-8

Max Horz 13=109(LC 7)

Max Uplift 13=-160(LC 8), 8=-160(LC 9) Max Grav 13=1158(LC 1), 8=1158(LC 1)

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

2-3=-1586/195, 3-4=-1178/200, 4-5=-1178/200, 5-6=-1586/195, 2-13=-1056/206, TOP CHORD

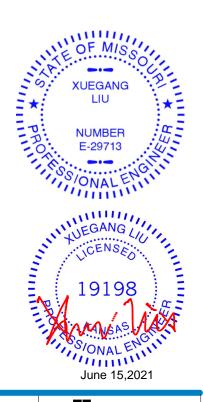
6-8=-1056/206

12-13=-168/1286, 11-12=-168/1286, 9-11=-74/1286, 8-9=-74/1286

BOT CHORD 4-11=-100/662, 5-11=-455/187, 3-11=-455/186 **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=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=160, 8=160.
- 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.





Job Truss Truss Type Qty Lot 153 HT 146562095 210463 E1 GABLE Job Reference (optional) B.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jun 15 11:48:57 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-6umzFBpMgFNIKrZNAkRAn882rCwgnXPuwrPdKEz62M4 Wheeler Lumber, Waverly, KS 66871 -0-10-8 0-10-8 7-6-9 14-9-0 21-11-7 28-2-14 7-6-9 7-2-8 7-2-6 6-3-8 Scale = 1:54.2 4x9 = 6.00 12 3x4 🖊 3x4 ≥ 5 3

4x5 < -5-1 **∑** 15 12 14 13 3x4 =8x8 = 3x6 =3x6 =10 Q 3x10 =

21-11-7

end verticals.

1 Row at midpt

24-2-4

Structural wood sheathing directly applied or 3-7-5 oc purlins, except

3-13, 5-13

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

28-2-14

7-6-9 2-2-14 4-0-10 7-2-8 7-2-6 [6:0-2-0,0-1-8], [11:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-5-13], [17:0-1-10,0-0-4], [18:0-0-3,0-1-4], [19:0-1-10,0-0-4], [20:0-0-0,0-0-0], [20:0-1-4,0-1-8], [19:0-1-10,0-0-4], [20:0-1-4,0-1-8], [20:0-1Plate Offsets (X,Y)--[27:0-1-12,0-0-4], [32:0-2-12,0-2-8], [32:0-2-0,0-0-12]

14-9-0

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 0.66	Vert(LL) -0.10 11-13 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.22 11-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.04 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06 11-13 >999 240	Weight: 138 lb FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

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

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

2-15: 2x4 SPF 2100F 1.8E

6-7,16-17,17-18,18-19,19-20,9-20: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 4-2-6 except (jt=length) 15=0-3-8, 10=0-3-8.

(lb) -Max Horz 15=143(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 10 except 15=-183(LC 8), 7=-167(LC 9),

9=-221(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 9, 8 except 15=1300(LC 1),

7=1090(LC 1), 10=332(LC 1)

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

TOP CHORD 2-3=-1952/251, 3-4=-1346/218, 4-5=-1345/228, 5-6=-1565/209, 2-15=-1226/223,

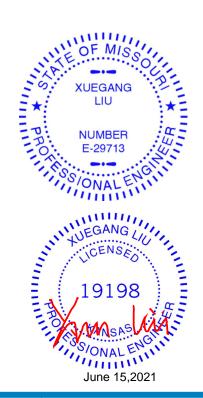
6-7=-1083/173

BOT CHORD 14-15=-295/637, 13-14=-255/1643, 12-13=-136/1328, 11-12=-136/1328 WFBS 3-13=-676/238, 4-13=-47/633, 5-13=-371/201, 5-11=-268/113, 2-14=0/1009,

6-11=-90/1265

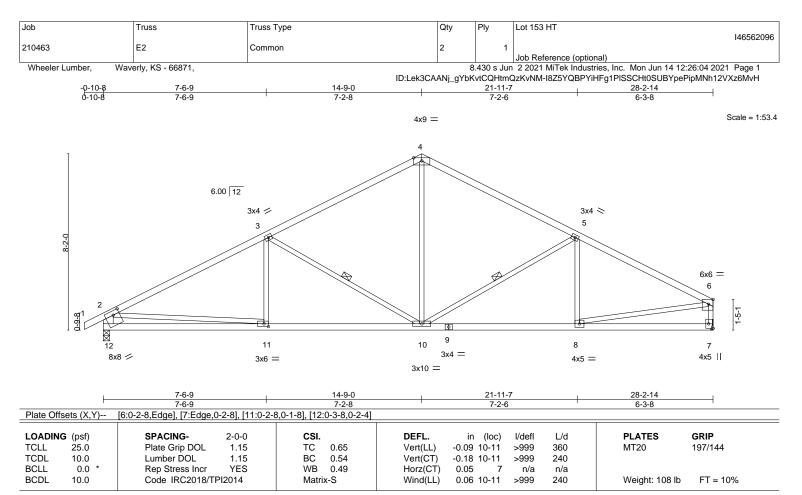
NOTES-

- 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) 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) The Fabrication Tolerance at joint 2 = 6%
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 15=183, 7=167, 9=221.
- 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.









BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2 *Except*

2-12: 2x6 SPF No.2

(size) 12=0-3-8, 7=Mechanical Max Horz 12=143(LC 7) Max Uplift 12=-184(LC 8), 7=-150(LC 9) Max Grav 12=1335(LC 1), 7=1254(LC 1)

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

2-3=-1991/250, 3-4=-1401/220, 4-5=-1401/228, 5-6=-1765/217, 2-12=-1261/225, TOP CHORD

6-7=-1195/179

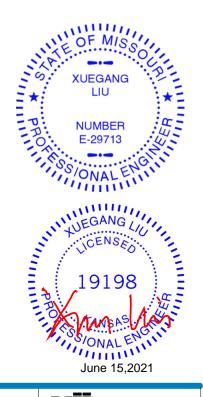
11-12=-286/599, 10-11=-252/1678, 8-10=-143/1507

3-10=-661/235, 4-10=-47/681, 5-10=-492/207, 2-11=-0/1083, 6-8=-112/1420 **WEBS**

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=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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=184, 7=150.
- 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 3-6-13 oc purlins,

3-10, 5-10

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

except end verticals.

1 Row at midpt

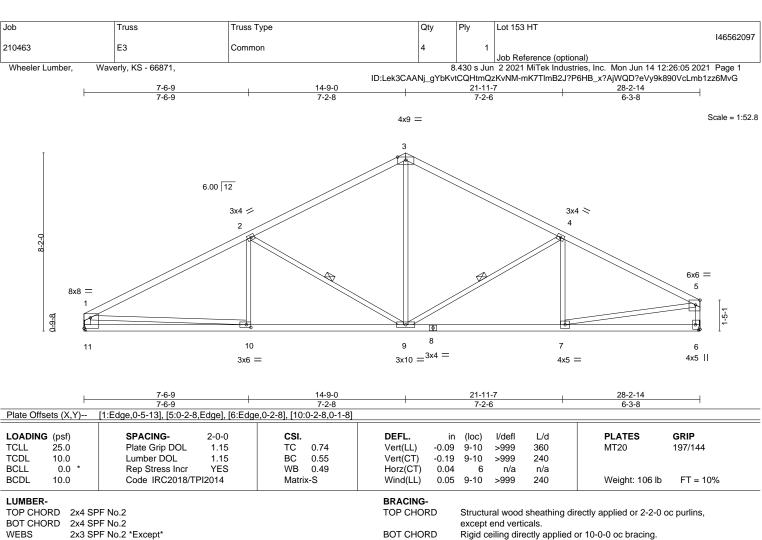
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017



WEBS

1 Row at midpt

2-9, 4-9

REACTIONS.

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

1-11: 2x4 SPF No.2

(size) 11=Mechanical, 6=Mechanical

Max Horz 11=113(LC 7)

Max Uplift 11=-17(LC 8), 6=-11(LC 9) Max Grav 11=1260(LC 1), 6=1260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2020/42, 2-3=-1413/69, 3-4=-1411/74, 4-5=-1774/35, 1-11=-1184/57, TOP CHORD

5-6=-1200/41

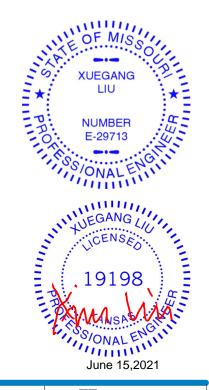
BOT CHORD 10-11=-96/480, 9-10=-42/1713, 7-9=0/1515

WEBS 2-9=-690/115, 3-9=0/698, 4-9=-492/108, 1-10=0/1239, 5-7=0/1428

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 11, 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.





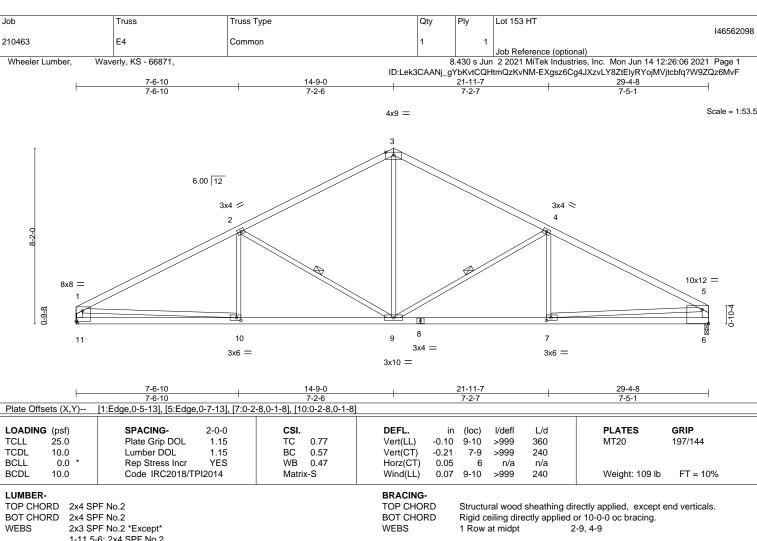
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd Chesterfield, MO 63017



LUMBER-

REACTIONS.

TOP CHORD

BOT CHORD WEBS

1-11,5-6: 2x4 SPF No.2

(size) 11=Mechanical, 6=0-2-0 Max Horz 11=117(LC 7) Max Uplift 11=-162(LC 8), 6=-161(LC 9)

Max Grav 11=1309(LC 1), 6=1309(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

5-6=-1234/200

BOT CHORD 10-11=-209/487, 9-10=-263/1798, 7-9=-152/1778, 6-7=-93/419

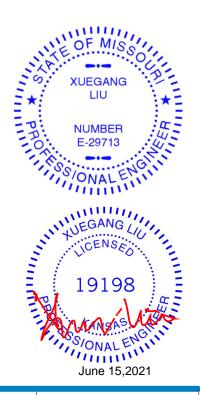
WEBS 2-9=-686/242, 3-9=-59/795, 4-9=-665/238, 1-10=-57/1315, 5-7=-68/1364

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) Bearing capacity is increased by the plate at joint(s) 6. Plate must be within 1/4 in of bearing surface.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

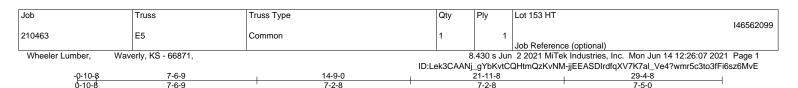
1-2=-2116/258, 2-3=-1515/236, 3-4=-1515/237, 4-5=-2090/255, 1-11=-1233/202,

- 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 at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=162, 6=161.
- 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.







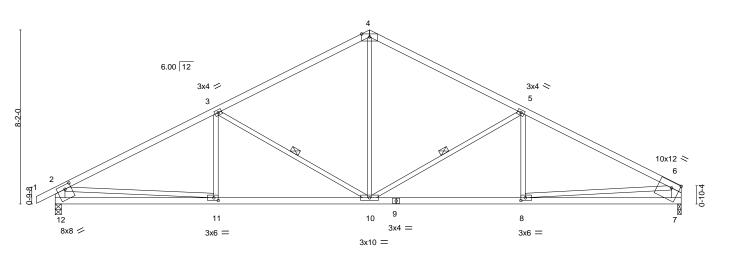


Scale = 1:54.1 4x9 =

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.



	'	7-6-9		7-2-8		7-2-8	•	7-5-0	<u>'</u>
Plate Off	fsets (X,Y)	[6:Edge,0-3-4], [8:0-2-8,0	-1-8], [11:0-2-	8,0-1-8], [12:0-3-8,0-2-4]				
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 0.68	Vert(LL)	-0.10 8-10	>999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.21 8-10	>999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.05 7	n/a n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.06 8-10	>999 240	Weight: 111 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

21-11-8

except end verticals.

1 Row at midpt

14-9-0

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2 *Except* 2-12,6-7: 2x6 SPF No.2

(size) 12=0-3-8, 7=0-2-0 (req. 0-2-1)

7-6-9

Max Horz 12=129(LC 5)

Max Uplift 12=-187(LC 8), 7=-160(LC 9) Max Grav 12=1380(LC 1), 7=1300(LC 1)

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

2-3=-2078/255, 3-4=-1494/234, 4-5=-1496/235, 5-6=-2056/252, 2-12=-1306/227, TOP CHORD

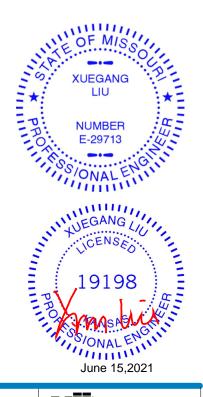
6-7=-1226/198

BOT CHORD 11-12=-285/608, 10-11=-255/1756, 8-10=-151/1748, 7-8=-88/395 3-10=-657/235, 4-10=-54/770, 5-10=-651/236, 2-11=-8/1152, 6-8=-67/1359

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=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=187, 7=160.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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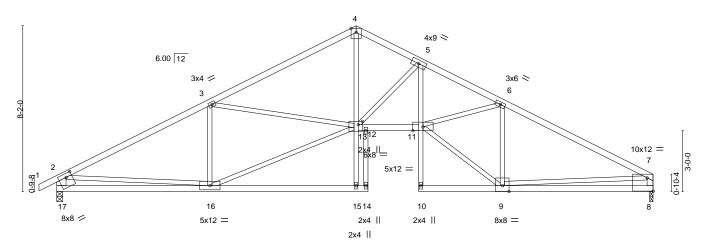
Job Truss Truss Type Qty Lot 153 HT 146562100 210463 E6 Roof Special | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:08 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-BvocNoEwcwnh8fiWhIHD2sd6aA77LSixIJ?Felz6MvD 15-4₁0 17-10-0 21-11-7 -0-10-8 0-10-8 7-6-9 7-2-8 0-7-0 2-6-0 4-1-7 7-5-1

> Scale = 1:56.8 6x6 =

> > Structural wood sheathing directly applied, except end verticals.

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



\vdash	7-6-9 7-6-9	14-9-0 7-2-8	15-4 ₇ 0 17-10-0 0-7-0 2-6-0	21-11-7 4-1-7	29-4-8 7-5-1	
Plate Offsets (X,Y)	[7:Edge,0-7-13], [13:0-2-8,0-2-0], [17	:0-3-8,0-2-4]				
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 0.94 BC 0.83 WB 0.75 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.37 Horz(CT) 0.21 Wind(LL) 0.13	(loc) I/defl L/d 10 >999 360 10 >943 240 8 n/a n/a 11 >999 240	PLATES GRIP MT20 197/144 Weight: 128 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

5-10: 2x3 SPF No.2 2x3 SPF No.2 *Except*

2-17: 2x6 SPF No.2, 7-8: 2x4 SPF No.2

REACTIONS. (size) 17=0-3-8, 8=0-2-0

Max Horz 17=127(LC 7)

Max Uplift 17=-187(LC 8), 8=-161(LC 9) Max Grav 17=1384(LC 1), 8=1304(LC 1)

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

 $2\hbox{-}3\hbox{-}-2089/254, \, 3\hbox{-}4\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-2251/281, \, 5\hbox{-}6\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-2059/246, \, 3\hbox{-}4\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-2059/246, \, 3\hbox{-}4\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-2059/246, \, 3\hbox{-}4\hbox{-}-2318/246, \, 4\hbox{-}5\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-2059/246, \, 3\hbox{-}4\hbox{-}-3218/246, \, 4\hbox{-}5\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-3261/291, \, 6\hbox{-}7\hbox{-}-3261/291,$ TOP CHORD

2-17=-1311/227, 7-8=-1226/201

16-17=-287/603, 12-13=-125/2830, 11-12=-126/2832, 5-11=-115/1169, 8-9=-111/460 **BOT CHORD** WEBS

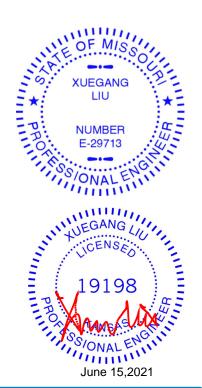
3-16=-666/199, 3-13=-38/324, 13-15=0/398, 4-13=-98/1592, 5-13=-1211/198,

9-11=-176/2181, 6-11=-45/1131, 6-9=-1330/195, 2-16=-14/1167, 7-9=-63/1287,

13-16=-279/1897

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) Bearing capacity is increased by the plate at joint(s) 8. Plate must be within 1/4 in of bearing surface.
- 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=187. 8=161.
- 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.





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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 153 HT 146562101 210463 E7 Roof Special Job Reference (optional)

6x8 II

Wheeler Lumber, Waverly, KS 66871

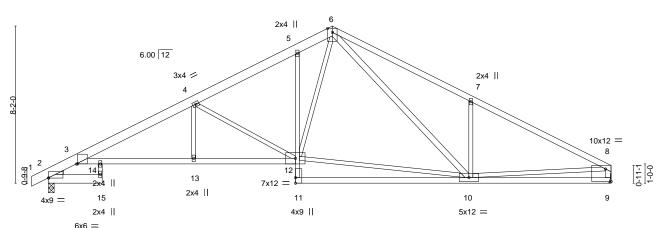
B.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jun 15 11:49:12 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-9nAeOK?m8sGdd8DGYNCiuJGcUF1goAQ5NgYvLtz62Lr

-0-10-8 0-10-8 2-9-8 7-6-9 12-10-0 14-9-0 21-11-7 29-2-14 2-9-8 4-9-1 5-3-7 1-11-0 7-2-7 7-3-7

Scale = 1:59.9

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

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



		2-9-8	7-6-9	12-10-0	21-11-7	29-2-14	
		2-9-8	4-9-1	5-3-7	9-1-7	7-3-7	1
Plate Offs	sets (X,Y)	[2:0-0-0,0-0-3], [3:0-0-	13,0-0-1], [8:Edç	ge,0-7-13]			
LOADING	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 0.69	Vert(LL) -0.22 13-14 >999	360 MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.67	Vert(CT) -0.46 10-11 >758	240	
BCLL	0.0 *	Rep Stress Incr		WB 1.00	Horz(CT) 0.22 9 n/a	n/a	
BCDL	10.0	Code IRC2018	/TPI2014	Matrix-S	Wind(LL) 0.12 13-14 >999	240 Weight: 143 ll	b FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

6-8: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-15: 2x6 SPF No.2, 3-12: 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

6-10,8-9: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (lb/size) 2=1375/0-3-8, 9=1301/Mechanical

Max Horz 2=105(LC 7)

Max Uplift 2=-27(LC 8), 9=-15(LC 9)

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

2-3=-824/41, 3-4=-2752/50, 4-5=-1882/54, 5-6=-1721/97, 6-7=-2051/146, 7-8=-2063/33, TOP CHORD

8-9=-1233/50

3-14=-47/2473, 13-14=-47/2473, 12-13=-47/2473, 9-10=-36/351

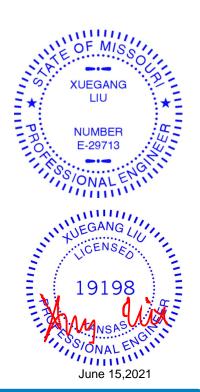
WFBS 4-13=0/325, 4-12=-1056/104, 10-12=0/1209, 6-12=-48/839, 6-10=-119/679,

7-10=-535/186, 8-10=0/1410

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







Job Truss Truss Type Qty Ply Lot 153 HT 146562102 210463 E8 Roof Special | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:10 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-7IwMoUFA8Y1POysvojJh7HiXFzq1pNYEldUMiBz6MvB -0-10-8 0-10-8 25-11-8 29-2-14 2-9-8 4-9-1 7-2-7 7-2-7 4-0-1 3-3-6 Scale = 1:52.8 6x6 = 5 6.00 12 3x4 🖊 3x4 ≥ 6 3x8 MT18HS | 8 16 11 1-0-0 6x6 15 12 X 4x9 =3x6 =17 10 9 4x9 || 12-10-0 6-0-8

[2:Edge,0-0-5], [3:0-1-9,0-0-1], [7:0-1-5,0-0-1] SPACING-CSI. **PLATES GRIP** LOADING (psf) DEFL. in (loc) I/def L/d TC 197/144 TCLL 25.0 Plate Grip DOL 1.15 0.61 Vert(LL) -0.24 15-16 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.67 Vert(CT) -0.45 15-16 >769 240 MT18HS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.66 Horz(CT) 0.42 C n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Wind(LL) 0.14 15-16 >999 240 Weight: 151 lb FT = 10% Matrix-S

BRACING-

TOP CHORD

BOT CHORD

WEBS

7-2-7

except end verticals.

1 Row at midpt

10-0-0 oc bracing: 12-14

LUMBER-

TOP CHORD 2x6 SP DSS *Except*

2-9-8

5-8: 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

3-13,7-13: 2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2 *Except*

16-17,10-11,18-20,19-21,22-23: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

Plate Offsets (X,Y)--

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

Max Horz 2=101(LC 7)

Max Uplift 2=-27(LC 8), 9=-15(LC 9) Max Grav 2=1377(LC 1), 9=1303(LC 1)

7-6-9

4-9-1

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

TOP CHORD 2-3=-817/42, 3-4=-2750/55, 4-5=-1730/48, 5-6=-1727/59, 6-7=-2701/31, 7-8=-474/14,

8-9=-1291/36

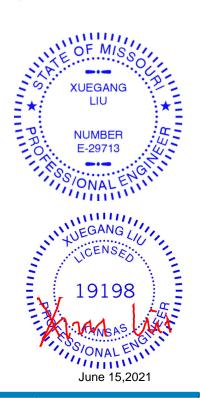
BOT CHORD 3-16=-54/2473, 15-16=-54/2473, 14-15=-54/2473, 12-14=0/2417, 11-12=0/2417,

7-11=0/2417

4-15=0/328, 4-14=-1146/135, 5-14=0/1024, 6-14=-1084/118, 6-12=0/320 **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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 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.



29-2-14

25-11-8

4-0-1

Structural wood sheathing directly applied or 3-8-11 oc purlins,

4-14, 6-14

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





146562103 210463 E9 Roof Special Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Tue Jun 15 11:49:20 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-wJff435nGJGUbNqo03LaC?b?yTmYgtgGDwUKdPz62Lj Wheeler Lumber, Waverly, KS 66871 -0-10-8 0-10-8 2-9-8 7-6-9 14-9-0 21-11-7 25-11-8 29-2-14 2-9-8 4-9-1 7-2-7 7-2-7 4-0-1 3-3-6 Scale = 1:52.3 6x6 = 5 6.00 12 3x4 / 3x4 ≥ 6 4 3x8 MT18HS II 8 6x6 15 12 13 4x9 =3x6 =10 17 9 4x9 =12-10-0 14-9-0 2-9-8 7-6-9 21-11-7 25-11-8 29-2-14 2-9-8 4-9-1 7-2-7 4-0-1 7-2-7 3-3-6 Plate Offsets (X,Y)--[2:0-0-0,0-0-3], [3:0-0-13,0-0-1], [7:0-1-5,0-0-1] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) L/d **PLATES** GRIP I/defl TC TCLL 25.0 Plate Grip DOL 1 15 0.60 Vert(LL) -0 24 15-16 >999 360 MT20 197/144

Qty

-0.44 15-16

0.19 15-16

9

1 Row at midpt

0.39

>793

>999

n/a

240

n/a

240

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

MT18HS

Structural wood sheathing directly applied or 4-8-2 oc purlins, except

4-14, 6-14

Weight: 147 lb

197/144

FT = 10%

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

Lot 153 HT

LUMBER-

TCDL

BCLL

BCDL

Job

TOP CHORD 2x6 SP 2400F 2.0E

10.0

10.0

0.0

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

2-17: 2x6 SPF No.2, 9-10,18-19: 2x4 SPF No.2

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

WEBS 2x3 SPF No.2 *Except*

18-20,19-21: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (lb/size) 2=1377/0-3-8, 9=1303/Mechanical

Truss

Truss Type

Max Horz 2=141(LC 12)

Max Uplift 2=-187(LC 8), 9=-161(LC 9)

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

TOP CHORD 2-3=-825/149, 3-4=-2750/354, 4-5=-1729/224, 5-6=-1727/242, 6-7=-2701/311,

7-8=-474/66, 8-9=-1290/185

3-16=-360/2471, 15-16=-360/2471, 14-15=-360/2471, 13-14=-208/2417, 12-13=-208/2417, BOT CHORD

1.15

YES

11-12=-208/2417, 7-11=-208/2417

WEBS 4-15=0/332, 4-14=-1143/326, 5-14=-63/1022, 6-14=-1084/293, 6-12=0/320

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

BC

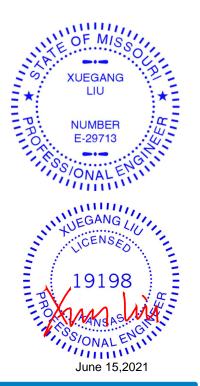
WB

Matrix-S

0.67

0.66

- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 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.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 9=161,
- 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.







Job Truss Truss Type Qty Lot 153 HT 146562104 210463 E10 Roof Special 1 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:02 2021 | Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-MIRL7I99041YQkFMK1ApobN9_I6lxkg3vNYxQez6MvJ 17-7-6 21-11-7 29-6-0 30-4-8 0-10-8 25-11-8 -0-10-8 0-10-8 7-6-9 7-2-8 2-10-6 4-4-1 4-0-1 3-6-8

> Scale = 1:57.8 6x8 ||

> > Structural wood sheathing directly applied or 3-5-4 oc purlins,

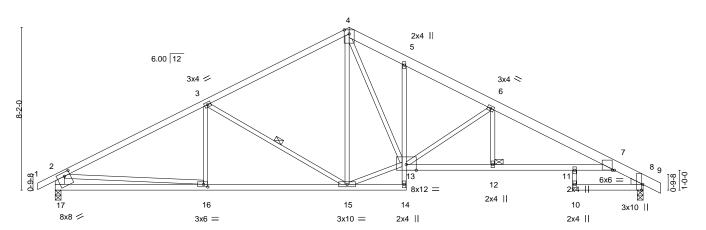
Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

except end verticals.

1 Row at midpt

1 Brace at Jt(s): 12

10-0-0 oc bracing: 12-13, 11-12



_	7-6-9	14-9-0	17-7-6	21-11-7	25-11-8	29-6-0	
	7-6-9	7-2-8	2-10-6	4-4-1	4-0-1	3-6-8	
Plate Offsets (X,Y)	[7:0-1-5,0-0-1], [8:0-3-8,Edge], [16:	0-2-8,0-1-8], [17:0-3-8,0-2-4]					
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 0.63 BC 0.66 WB 0.72 Matrix-S	- '(/	in (loc) l/defl -0.22 11-12 >999 -0.42 11-12 >832 0.26 8 n/a 0.16 11-12 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 Weight: 140 lb FT = 10%	

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 4-9: 2x6 SP DSS **BOT CHORD** 2x4 SPF No.2 *Except*

5-14: 2x3 SPF No.2, 7-13: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-17: 2x6 SPF No.2

WEDGE Right: 2x4 SPF No.2

(size) 17=0-3-8, 8=0-3-8 REACTIONS. Max Horz 17=-132(LC 9)

Max Uplift 17=-188(LC 8), 8=-186(LC 9) Max Grav 17=1388(LC 1), 8=1382(LC 1)

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

TOP CHORD 2-3=-2095/254, 3-4=-1518/236, 4-5=-1870/306, 5-6=-2007/245, 6-7=-2768/300,

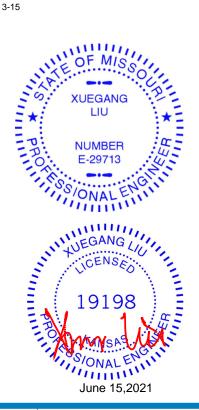
7-8=-807/129, 2-17=-1315/227

BOT CHORD 16-17=-286/607, 15-16=-250/1771, 12-13=-161/2490, 11-12=-161/2490, 7-11=-161/2490

WEBS 3-15=-639/225, 13-15=-50/1265, 4-13=-176/1108, 6-13=-1004/223, 6-12=0/306,

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
- 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) 17=188, 8=186
- 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.



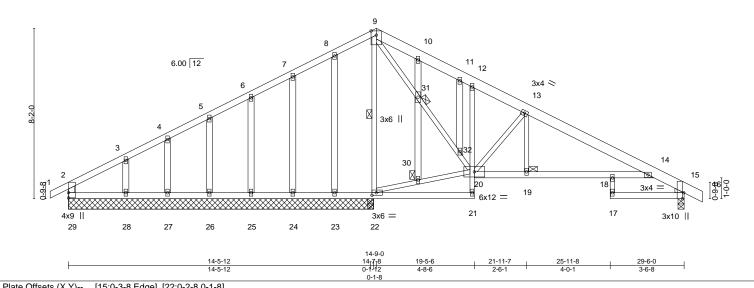




Job Truss Truss Type Qty Ply Lot 153 HT 146562105 210463 E11 **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:03 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qy?jK5AnnO9P2tqZulh2LowNE9W1gEWC81HUy5z6MvI

-0-10-8 0-10-8

Scale = 1:55.2 6x8 ||



T late Off	Sets (X, I) [10.0-0-0, Luge], [22.0-2-0,0-1-0]				
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 0.40	Vert(LL) -0.08 18 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.18 18-19 >999 240	I
BCLL	0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.08 15 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 18 >999 240	Weight: 154 lb FT = 10%

	LUMBER-		BRACING-			
	TOP CHORD	2x4 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,		
		9-16: 2x6 SPF No.2		except end verticals.		
	BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:		
		12-21: 2x3 SPF No.2		10-0-0 oc bracing: 21-22,20-21,15-17.		
WEBS 2x3 SPF No.2 *Except*		2x3 SPF No.2 *Except*		10-0-0 oc bracing: 19-20, 18-19		
		2-29: 2x4 SPF No.2	WEBS	1 Row at midpt 9-22		
	OTHERS	2x4 SPF No.2	JOINTS	1 Brace at Jt(s): 19, 30, 31		

WEDGE Right: 2x3 SPF No.2

REACTIONS. All bearings 14-7-8 except (jt=length) 15=0-3-8.

Max Horz 29=-132(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27 except 29=-292(LC 22), 15=-104(LC 9), 22=-131(LC 9), 28=-121(LC 8) All reactions 250 lb or less at joint(s) 29, 23, 24, 25, 26, 27 except 15=488(LC 1), 22=1238(LC 1), 22=1238(LC 1), 28=395(LC 1)

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

2-3=-145/587, 3-4=-76/529, 4-5=-37/548, 5-6=-8/544, 6-7=0/543, 7-8=0/550, TOP CHORD

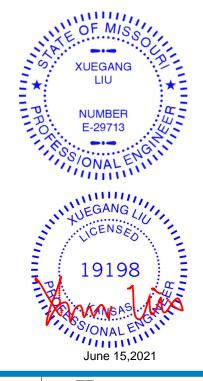
8-9=0/534, 13-14=-391/99, 2-29=-35/261

 $28 - 29 = -463/243,\ 27 - 28 = -463/243,\ 26 - 27 = -463/243,\ 25 - 26 = -463/243,\ 24 - 25 = -463/243,$ BOT CHORD 23-24=-463/243, 22-23=-463/243, 19-20=-14/321, 18-19=-14/321, 14-18=-14/321 **WEBS** 9-31=-178/655, 31-32=-166/613, 20-32=-174/650, 22-30=-500/240, 20-30=-480/230,

13-20=-648/168, 13-19=0/256, 3-28=-268/127, 9-22=-966/106

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) 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) 23, 24, 25, 26, 27 except (jt=lb) 29=292, 15=104, 22=131, 28=121.
- 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



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



Job Truss Truss Type Qty Ply Lot 153 HT 146562106 210463 G1 Roof Special | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:12 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANi_gYbKvtCQHtmQzKvNM-3h27DAHRg9H7dG0Hw8L9CinsBnWsHNZXDxzTn3z6Mv9 16-0-8 0-10-8 15-2-0 5-4-8 2-2-8 4-0-8 0-10-8

4x5 ||

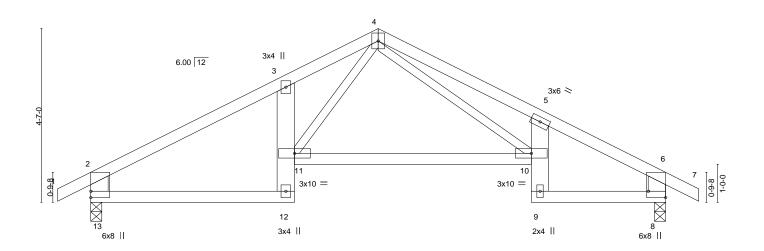


Plate Offsets (X,Y)	[8:Edge,0-5-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.11 10-11 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.25 10-11 >701 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.11 8 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.06 10-11 >999 240	Weight: 56 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-12,5-9: 2x6 SPF No.2

WEBS 2x6 SPF No.2 *Except*

4-11,4-10: 2x3 SPF No.2

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

Max Horz 13=-77(LC 6)

Max Uplift 13=-107(LC 8), 8=-107(LC 9) Max Grav 13=739(LC 1), 8=739(LC 1)

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

TOP CHORD 2-3=-883/117, 3-4=-1211/208, 4-5=-1675/258, 5-6=-845/113, 2-13=-674/141,

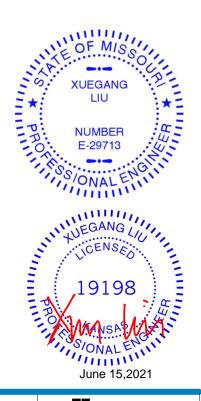
5-4-8

6-8=-667/122

BOT CHORD 12-13=-87/689, 3-11=-345/158, 10-11=-26/725, 5-10=-493/171, 8-9=-48/650

WEBS 4-11=-115/561, 4-10=-177/901

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=107, 8=107.
- 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 4-2-4 oc purlins,

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

except end verticals.

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

Scale = 1:30.4





Job Truss Truss Type Qty Lot 153 HT 146562107 210463 G2 Common Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:13 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-XtcVRVI3RTP_FQbUTrsOlvKA?B0t0uzhRbi0JWz6Mv8 -0-10-8 0-10-8 7-7-0 7-7-0 0-10-8

> Scale = 1:30.2 4x5 =

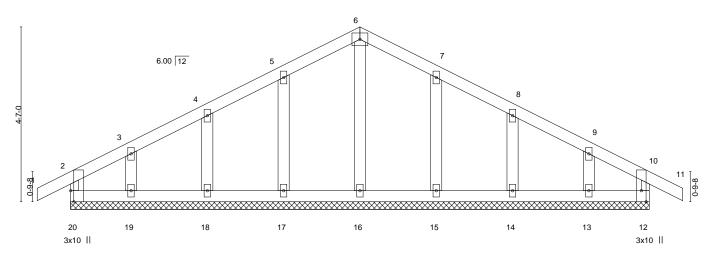


Plate Offsets (X,Y)	Plate Offsets (A, Y) [20:0-3-8, Edge]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 11 n/r 120	MT20 197/144					
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 11 n/r 120						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 12 n/a n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 58 lb FT = 10%					

LUMBER-BRACING-

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

REACTIONS. All bearings 15-2-0.

Max Horz 20=-75(LC 6) (lb) -

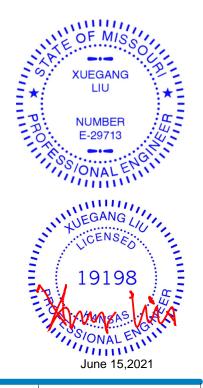
2x4 SPF No.2

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

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

OTHERS

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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,
- 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.



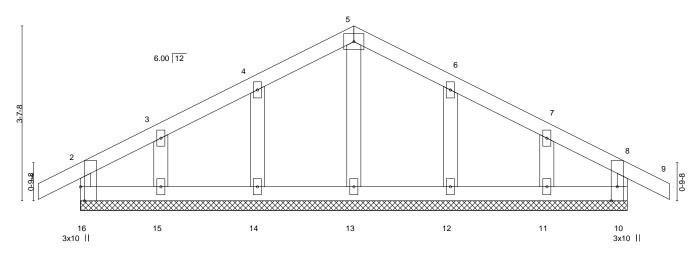


Job Truss Truss Type Qty Ply Lot 153 HT 146562108 210463 H1 Common Supported Gable | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:14 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-?39terlhBmXrsaAg1ZNdH7tKlaM6lLSqgFSaryz6Mv7 12-2-8 0-10-8 5-8-0 5-8-0 0-10-8

4x5 =

Scale: 1/2"=1



11-4-0 11-4-0

Plate Off	sets (X,Y)	[16:0-3-8,Eage]		
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 0.07	Vert(LL) -0.00 9 n/r 120 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 9 n/r 120
BCLL	0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 10 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 41 lb FT = 10%

LUMBER-BRACING-

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

REACTIONS. All bearings 11-4-0.

Max Horz 16=-63(LC 6) (lb) -

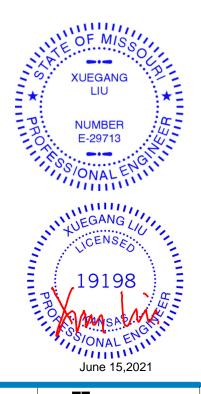
2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

OTHERS

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 16, 10, 14, 15,
- 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.





Job Truss Truss Type Qty Lot 153 HT 146562109 210463 H2 Common | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:15 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-UGjFrBJJy4fiUjksbGvsqKPQH_f6Um0zvvB7OOz6Mv6 12-2-8 0-10-8 5-8-0 5-8-0 0-10-8 Scale: 1/2"=1 4x5 = 3 6.00 12 7 2x4 || 4x9 П 4x9 || 5-8-0

Plate Off	fsets (X,Y)	[6:Eage,0-3-8]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.02 6-7 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.05 6-7 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 7-8 >999 240 Weight: 33 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8

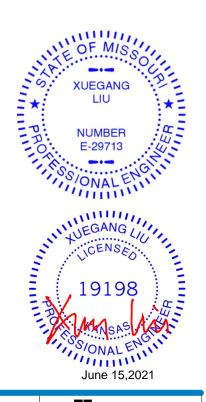
Max Horz 8=-63(LC 6)

Max Uplift 8=-84(LC 8), 6=-84(LC 9) Max Grav 8=568(LC 1), 6=568(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-588/85, 3-4=-588/85, 2-8=-510/123, 4-6=-510/123 BOT CHORD 7-8=-12/438, 6-7=-12/438

NOTES-

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

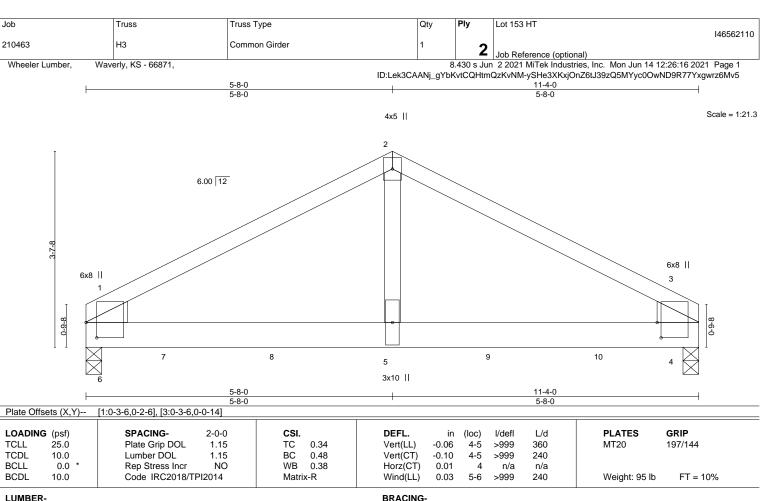


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E WEBS 2x10 SP DSS *Except* 2-5: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 4=0-3-8

Max Horz 6=-57(LC 25)

Max Uplift 6=-260(LC 8), 4=-145(LC 9) Max Grav 6=3667(LC 1), 4=3531(LC 1)

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

1-2=-3884/198, 2-3=-3884/198, 1-6=-1917/149, 3-4=-1917/151 TOP CHORD

BOT CHORD 5-6=-123/3384, 4-5=-123/3384

WEBS 2-5=-52/3113

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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) 6=260, 4=145,
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1289 lb down and 182 lb up at 1-6-12, 1240 lb down and 37 lb up at 3-6-12, 1240 lb down and 37 lb up at 5-6-12, and 1240 lb down and 37 lb up at 7-6-12, and 1240 lb down and 37 lb up at 9-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



O

XUEGANG

LIU

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

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

except end verticals.



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 153 HT 146562110 210463 Н3 Common Girder

Wheeler Lumber,

Waverly, KS - 66871,

Z | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:16 2021 | Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-ySHe3XKxjOnZ6tJ39zQ5MYyc0OwND9R77Yxgwrz6Mv5

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, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-1240(B) 7=-1289(B) 8=-1240(B) 9=-1240(B) 10=-1240(B)



Job Truss Truss Type Qty Lot 153 HT 146562111 210463 J1 Diagonal Hip Girder 2 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:17 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Qer0GtLZUhvPj1uFihxKvlVn1oJ_yheGMCgESHz6Mv4 2-9-3 1-2-14 Scale = 1:13.8 3x4 || 2.83 12 6x8 = 1-3-2 2 5 2x4 || ⁶ 2x4 || 3x6 || Plate Offsets (X,Y)--[3:0-6-11,0-1-14], [7:0-3-0,0-0-12] SPACING-**PLATES** GRIP LOADING (psf) CSI DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.38 Vert(LL) -0.06 6 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.27 Vert(CT) -0.14 6 >433 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.07 6 >891 240 Weight: 17 lb Matrix-R **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

WEBS 2x6 SPF No.2 *Except* 4-5: 2x3 SPF No.2

REACTIONS. (size) 7=0-4-9, 5=Mechanical

Max Horz 7=63(LC 5)

Max Uplift 7=-99(LC 4), 5=-40(LC 8) Max Grav 7=364(LC 1), 5=225(LC 1)

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

TOP CHORD 2-7=-342/112

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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 27 lb up at 2-9-8, and 66 lb down and 27 lb up at 2-9-8 on top chord, and 4 lb down and 3 lb up at 2-7-15, and 4 lb down and 3 lb up at 2-7-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

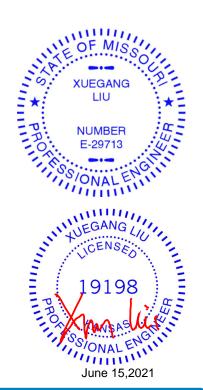
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 6=6(F=3, B=3)



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

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

except end verticals.



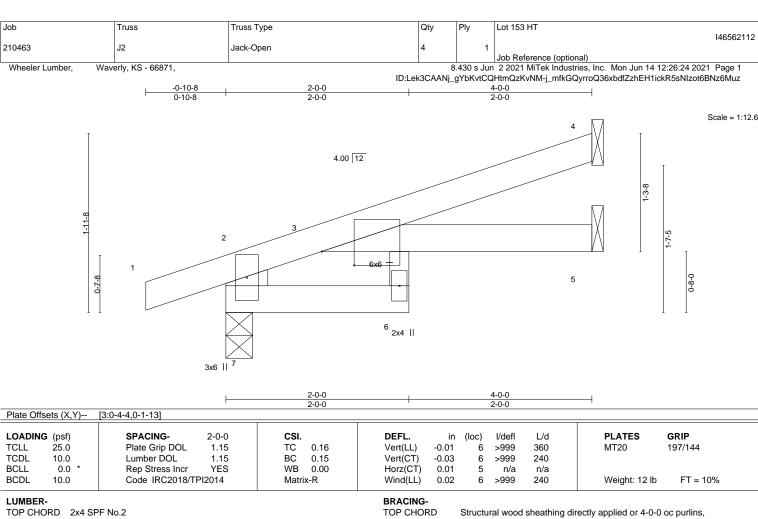
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

except end verticals.

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

2x4 SPF No.2 TOP CHORD BOT CHORD

2x4 SPF No.2 *Except*

3-6: 2x3 SPF No.2

WEBS 2x6 SPF No.2

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=64(LC 4)

Max Uplift 7=-63(LC 4), 4=-44(LC 8)

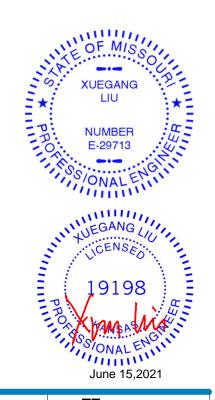
Max Grav 7=267(LC 1), 4=107(LC 1), 5=71(LC 3)

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

TOP CHORD 2-7=-252/75

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) 7, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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

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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 153 HT 146562113 210463 J3 Jack-Open | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:26 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fNuQ9ySDNS28IQ4_k4bRmfNOVQSxZmsbR6MCGFz6Mux 1-10-15 0-10-8 1-10-15 Scale = 1:9.1 4.00 12 2 0-10-15

> 3x6 || 1-10-15 1-10-15

> > BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.08 BC 0.02	DEFL. Vert(LL) -0.0 Vert(CT) -0.0	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.0 Wind(LL) 0.0	n/a >999	n/a 240	Weight: 6 lb	FT = 10%

LUMBER-

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

WEBS 2x6 SPF No.2 REACTIONS.

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=36(LC 4) Max Uplift 5=-65(LC 4), 3=-22(LC 8)

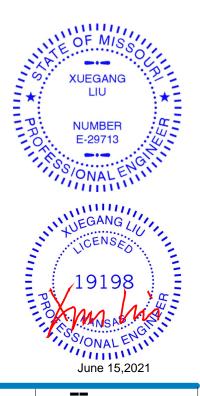
0-7-8

Max Grav 5=178(LC 1), 3=40(LC 1), 4=28(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 1-10-15 oc purlins,

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

except end verticals.







Job Truss Truss Type Qty Lot 153 HT 146562114 210463 J4 Jack-Open

Wheeler Lumber, Waverly, KS - 66871,

| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:27 2021 | Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-7ZSoNISr8mA?wZfAIn6gJsvZ7goaID6kfm5moiz6Muw

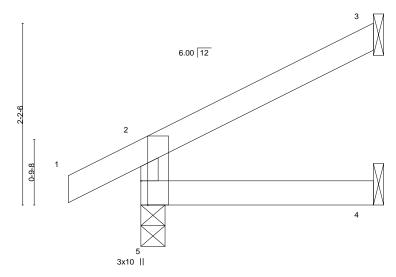
Structural wood sheathing directly applied or 2-9-11 oc purlins,

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

except end verticals.

2-9-11 2-9-11 0-10-8

Scale = 1:13.9



2-9-11	
2-9-11	٦

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets	(X,Y)	[5:0-3-8,Edge]										
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL (0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

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

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

Max Horz 5=63(LC 8)

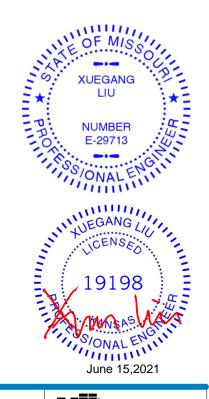
Max Uplift 5=-23(LC 8), 3=-49(LC 8)

Max Grav 5=200(LC 1), 3=78(LC 1), 4=50(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) 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.





Job	Truss	Truss Type	Qty	Ply	Lot 153 HT	٦
210463	15	Jack-Open	1	1	146562115	,
210403	33	заск-орен	'		Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:27 2021 Page 1

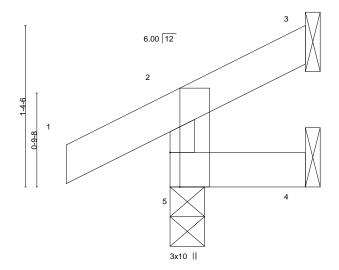
Structural wood sheathing directly applied or 1-1-11 oc purlins,

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

except end verticals.



Scale = 1:9.7



- 1	1-1-11
	1-1-11

Plate Off	sets (X,Y)	[5:0-3-8,Edge]											_
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	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 4 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

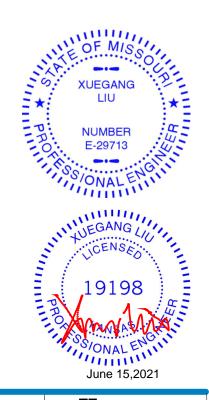
Max Horz 5=34(LC 5)

Max Uplift 5=-23(LC 8), 3=-16(LC 8), 4=-1(LC 5) Max Grav 5=147(LC 1), 3=9(LC 15), 4=18(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) 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.







Job Truss Truss Type Qty Ply Lot 153 HT 146562116 210463 J6 Roof Special Girder

Wheeler Lumber, Waverly, KS - 66871,

1-4-6

| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:28 2021 | Page 1

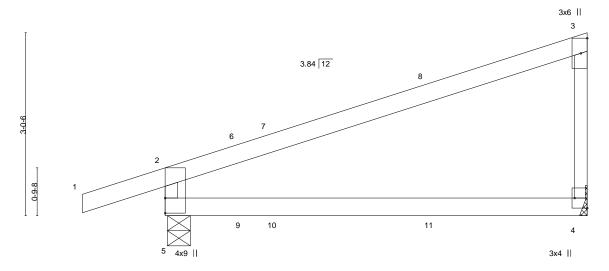
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-bm0AaeTTu4lsYjEMrVevs4SanE1v1gMuuQrJK8z6Muv 6-11-14 6-11-14

Scale = 1:19.1



6-11-7

Plate Offsets (X,Y)	[4:Edge,0-2-8]			
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 0.73	Vert(LL) -0.09 4-5 >937 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.18 4-5 >446 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04 4-5 >999 240	Weight: 20 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x3 SPF No.2 REACTIONS. (size) 4=Mechanical, 5=0-4-9

Max Horz 5=126(LC 5) Max Uplift 4=-79(LC 8), 5=-128(LC 4) Max Grav 4=299(LC 1), 5=419(LC 1)

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

TOP CHORD 2-5=-367/174

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=128
- 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) 73 lb down and 15 lb up at 1-4-1, 63 lb down and 16 lb up at 1-10-6, and 95 lb down and 67 lb up at 4-5-8, and 77 lb down and 57 lb up at 4-5-10 on top chord , and 2 lb down and 3 lb up at 1-4-1, 3 lb down and 6 lb up at 1-10-6, and 17 lb down at 4-5-8, and 13 lb down at 4-5-10 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

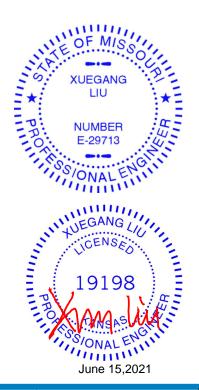
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=-1(B) 9=3(B) 10=2(F) 11=-9(F=-2, B=-7)









Wheeler Lumber, Waverly, KS - 66871, | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:29 2021 | Page 1

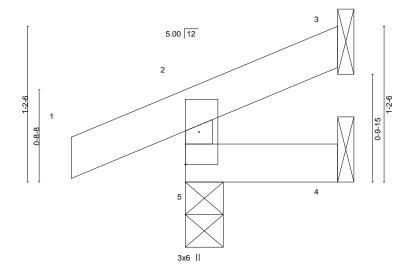
Structural wood sheathing directly applied or 1-2-0 oc purlins,

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

except end verticals.

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3yZYo_U5fNQiAtpYPC98OH?v_dTqm7c174assaz6Muu 1-2-0 0-10-8 1-2-0

Scale = 1:8.8



1-2-0

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 0.06	Vert(LL) -0.00 5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 5 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 4 lb FT = 10%

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=30(LC 5)

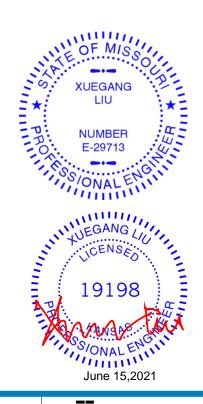
Max Uplift 5=-37(LC 4), 3=-13(LC 8)

Max Grav 5=148(LC 1), 3=10(LC 1), 4=19(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.





Job Truss Truss Type Qty Lot 153 HT 146562118 210463 J8 Jack-Open | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:30 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-X87w?JVjQhYZn1OlzwgNxVX2C1ocVasBLkKQP1z6Mut 3-6-13 3-6-13 0-10-8 Scale = 1:13.8 5.00 12 1-9-15 2

3-6-13

BRACING-

TOP CHORD

BOT CHORD

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	0.16	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

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=66(LC 8)

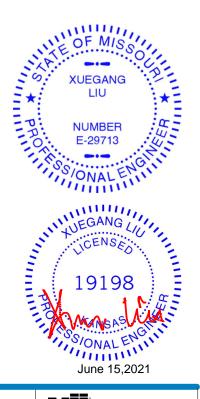
Max Uplift 5=-34(LC 8), 3=-56(LC 8) Max Grav 5=232(LC 1), 3=105(LC 1), 4=65(LC 3)

0-8-8

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 3-6-13 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Lot 153 HT 146562119 210463 J9 Jack-Closed 2 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:30 2021 | Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-X87w?JVjQhYZn1OlzwgNxVX_E1mGVasBLkKQP1z6Mut

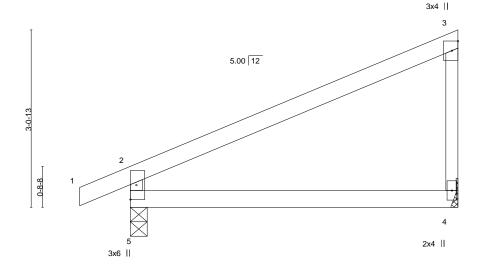
Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

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

Scale = 1:19.9



5-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 4-5 25.0 Plate Grip DOL TC Vert(LL) -0.04 >999 360 197/144 **TCLL** 1.15 0.42 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.25 Vert(CT) -0.08 4-5 >831 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 4-5 >999 240 Weight: 17 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

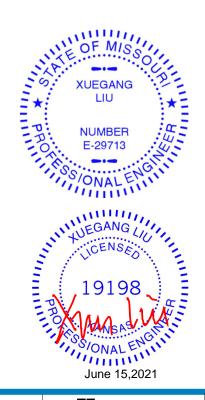
> 5=0-3-8, 4=Mechanical (size) Max Horz 5=125(LC 5) Max Uplift 5=-57(LC 8), 4=-58(LC 8) Max Grav 5=320(LC 1), 4=239(LC 1)

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

TOP CHORD 2-5=-279/98

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) 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.





Job Truss Truss Type Qty Lot 153 HT 146562120 210463 J10 Jack-Closed | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:18 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANi_qYbKvtCQHtmQzKvNM-uqPOUDLBF?2GLBTRGOSZSz1xcCgvh8uQbsQn_jz6Mv3 5-4-0 5-4-0 Scale = 1:19.9 3x4 || 2 5.00 12 0-10-3 3 2x4 || 3x10 || 5-4-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

>988

>999

except end verticals.

n/a

(loc)

3-4

3-4

3

-0.03

-0.06

-0.00

0.01

L/d

360

240

n/a

240

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

PLATES

Weight: 15 lb

MT20

Structural wood sheathing directly applied or 5-4-0 oc purlins,

GRIP

197/144

FT = 10%

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 2x3 SPF No.2

> 4=Mechanical, 3=Mechanical (size) Max Horz 4=116(LC 5) Max Uplift 4=-30(LC 8), 3=-56(LC 8) Max Grav 4=231(LC 1), 3=231(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

CSI.

TC

ВС

WB

Matrix-R

0.39

0.22

0.00

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

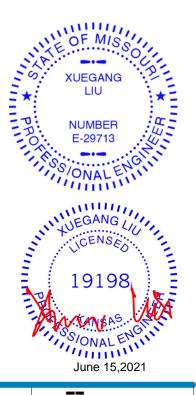
2-0-0

1.15

1.15

YES

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



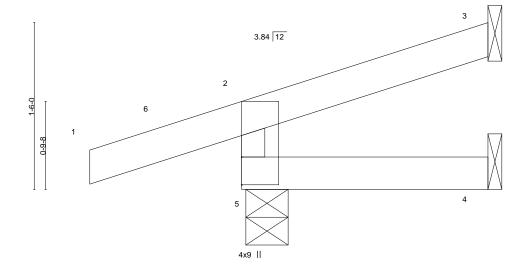


Job Truss Truss Type Qty Ply Lot 153 HT 146562121 210463 J11 Jack-Open Girder | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:19 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_qYbKvtCQHtmQzKvNM-M1zmhZMq0JA7zL2dq6zo_AaB8b3EQb7ZqW9LX9z6Mv2

2-2-9 1-4-6

Scale = 1:10.4



		ı	2-2-2	<u>'</u>
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 5 >999 360	
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2-2-9

except end verticals.

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

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

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> (size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=51(LC 7) Max Uplift 5=-115(LC 6), 3=-25(LC 12)

Max Grav 5=78(LC 1), 3=24(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 except (jt=lb) 5=115.
- 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) 12 lb down and 4 lb up at -1-4-6 , and 12 lb down and 4 lb up at -1-4-6 on top chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

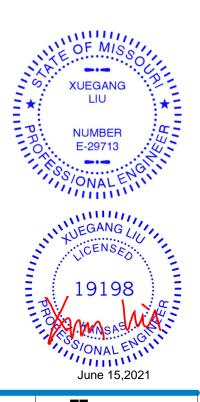
LOAD CASE(S) Standard

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

Vert: 1=-19(F=-10, B=-10)

Trapezoidal Loads (plf)

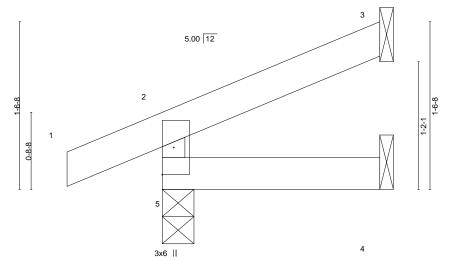
Vert: 1=-0(F=35, B=35)-to-6=-13(F=28, B=28), 6=0(F=35, B=35)-to-2=-13(F=29, B=29), 2=-13(F=29, B=29)-to-3=-49(F=10, B=10), 5=-4(F=8, B=8)-to-4=-14(F=3, B=3)







Job Truss Truss Type Qty Ply Lot 153 HT 146562122 210463 J12 Jack-Open | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:19 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_qYbKvtCQHtmQzKvNM-M1zmhZMq0JA7zL2dq6zo_AaBVb3CQb7ZqW9LX9z6Mv2 -0-10-8 2-0-0 0-10-8 Scale = 1:10.6



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

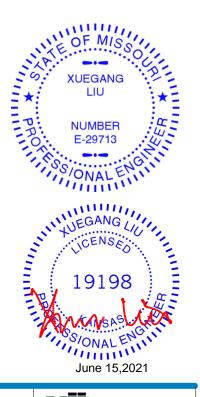
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=40(LC 8)

Max Uplift 5=-32(LC 4), 3=-31(LC 8) Max Grav 5=171(LC 1), 3=50(LC 1), 4=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 2-0-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 153 HT 146562123 210463 J15 Jack-Open

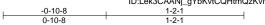
Wheeler Lumber, Waverly, KS - 66871,

| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:20 2021 | Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qDX8vvNSncl_aVdqOpU1XO7ME?Pi92Nj2Avu3cz6Mv1

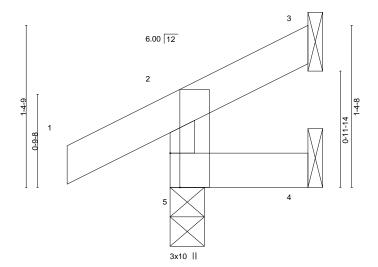
Structural wood sheathing directly applied or 1-2-1 oc purlins,

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

except end verticals.



Scale = 1:9.8



BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[5:0-3-8,Edge]			
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 0.07	Vert(LL) -0.00 5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 4 lb FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

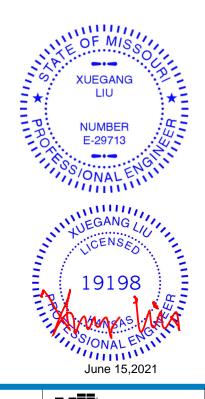
Max Horz 5=34(LC 5)

Max Uplift 5=-23(LC 8), 3=-17(LC 8), 4=-1(LC 5) Max Grav 5=148(LC 1), 3=11(LC 15), 4=19(LC 3)

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

NOTES-

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





Job Truss Truss Type Qty Lot 153 HT 146562124 210463 J16 Diagonal Hip Girder | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:21 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-IP5X6EO4YwQrCeC0xX0G3bfVVPjguVdsHqeRb2z6Mv0 1-5-8 4-5-7 Scale = 1:13.4 2x4 3.60 12 2 8 9 4 2x4 || 4x9 |

				4-4-15	
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 0.22	Vert(LL) -0.01 4-5 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03 4-5 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

(size)

Max Horz 5=86(LC 5) Max Uplift 5=-110(LC 4), 4=-59(LC 8) Max Grav 5=317(LC 1), 4=242(LC 1)

5=0-4-13, 4=Mechanical

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

TOP CHORD 2-5=-282/136

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) 4 except (jt=lb) 5=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 15 lb up at 1-2-4, and 61 lb down and 17 lb up at 2-0-6, and 75 lb down and 63 lb up at 4-4-3 on top chord, and 2 lb down and 2 lb up at 1-2-4, and 3 lb down and 6 lb up at 2-0-6, and 33 lb down at 4-4-3 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

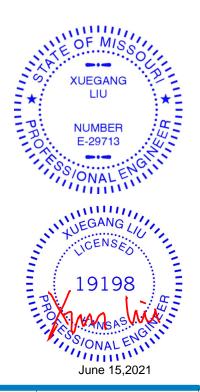
1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=-50(B) 4=-23(B) 8=2(B) 9=2(F)



Structural wood sheathing directly applied or 4-5-7 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Ply Lot 153 HT 146562125 210463 J17 Jack-Open

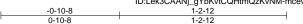
Wheeler Lumber,

Waverly, KS - 66871,

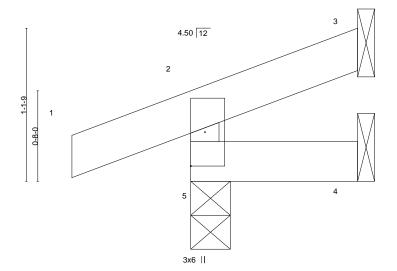
| Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:22 2021 | Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-mcevJaOiJEYiqonCVEXVcpCjmp4Adyt?WUO?7Uz6Mv?

Structural wood sheathing directly applied or 1-2-12 oc purlins,

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



Scale = 1:8.5



1-2-12	1
1-2-12	1

except end verticals.

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	0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 4 lb	FT = 10%

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=29(LC 5)

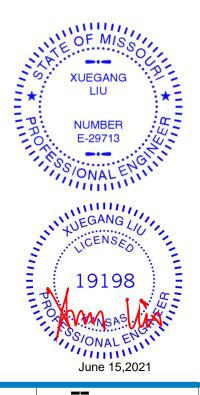
Max Uplift 5=-53(LC 4), 3=-13(LC 8)

Max Grav 5=149(LC 1), 3=14(LC 1), 4=20(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.





Job Truss Truss Type Qty Lot 153 HT 146562126 210463 J18 Jack-Open | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:22 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-mcevJaOiJEYiqonCVEXVcpChyp3bdyt?WUO?7Uz6Mv? -0-10-8 3-8-9 0-10-8 Scale = 1:13.1 4.50 12 1-8-7 0-8-0

	F		3-8-9	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.18 BC 0.11	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.02 4-5 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.01 3 n/a n/a Wind(LL) 0.01 4-5 >999 240	Weight: 10 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x3 SPF No.2

> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=63(LC 4) Max Uplift 5=-54(LC 4), 3=-55(LC 8)

Max Grav 5=238(LC 1), 3=110(LC 1), 4=67(LC 3)

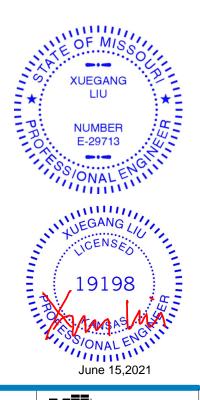
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

3x6 ||

- 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.
- 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.

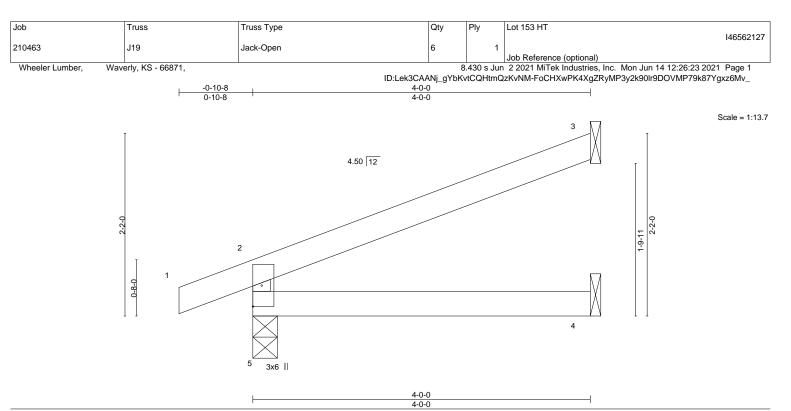


Structural wood sheathing directly applied or 3-8-9 oc purlins,

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

except end verticals.





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	0.21	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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/TPI	2014	Matri	x-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 2x3 SPF No.2

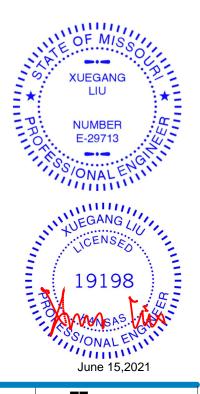
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=68(LC 4) Max Uplift 5=-55(LC 4), 3=-60(LC 8)

Max Grav 5=250(LC 1), 3=120(LC 1), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 4-0-0 oc purlins,

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

except end verticals.





Job	Truss	Truss Type	Qty	Ply	Lot 153 HT	
040400	100	last Olasad Command Oakla		_	I46562128	
210463	J20	Jack-Closed Supported Gable	2	1	Job Reference (optional)	

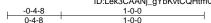
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:25 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-BBK1ycRac9wHhGVnAM4CERqEX06?qJcSCScfjpz6Muy

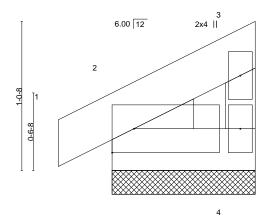
Structural wood sheathing directly applied or 1-0-0 oc purlins,

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

except end verticals.



Scale: 1.5"=1'



2x4 || 4x9 =

LOADING	(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	0.00	Vert(CT)	-0.00	1	n/r	120		
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: 4 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

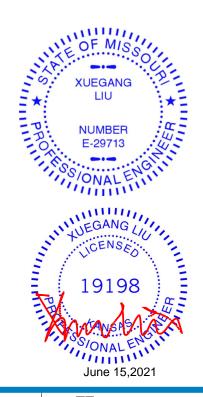
REACTIONS. (size) 4=1-0-0, 2=1-0-0

Max Horz 2=27(LC 5)

Max Uplift 4=-14(LC 5), 2=-23(LC 8) Max Grav 4=13(LC 4), 2=106(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=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.





Job	Truss	Truss Type	Qty	Ply	Lot 153 HT	
210463	J21	Jack-Closed	2	1	146562129	
210403	321	Jack-Closed	2	'	Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:25 2021 Page 1

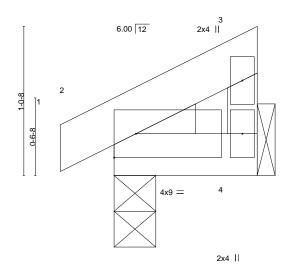
Structural wood sheathing directly applied or 1-0-0 oc purlins,

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

except end verticals.

ID:Lek3CAANi_gYbKvtCQHtmQzKvNM-BBK1ycRac9wHhGVnAM4CERqEs06mqJcSCScfjpz6Muy 0-4-8 1-0-0

Scale: 1.5"=1'



1-0-0 1-0-0

BRACING-

TOP CHORD

BOT CHORD

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 0.01	Vert(LL) -0	.00 2	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0	.00 2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0	.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0	.00 2	****	240	Weight: 4 lb	FT = 10%

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x3 SPF No.2

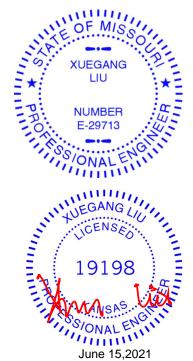
(size) 4=Mechanical, 2=0-3-8

Max Horz 2=27(LC 5)

Max Uplift 4=-11(LC 5), 2=-13(LC 8) Max Grav 4=32(LC 1), 2=74(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=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



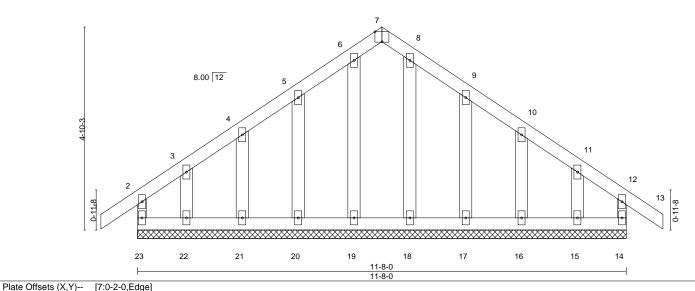


Job Truss Truss Type Qty Lot 153 HT 146562130 210463 K1 **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:32 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-UXFhQ?WzyloH1LY74Lir0wcP8rV2zUuUp2pXTvz6Mur -0-10-8 0-10-8 12-6-8

> Scale = 1:27.5 3x4 =

0-10-8

5-10-0



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 0.07	Vert(LL) -0.00 13 n/r 12	0 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 13 n/r 12	0
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n/	′a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 56 lb FT = 10%

LUMBER-BRACING-

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

REACTIONS. All bearings 11-8-0.

Max Horz 23=-144(LC 6) (lb) -

2x4 SPF No.2

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

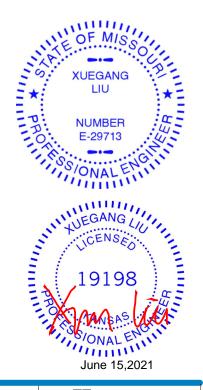
Max Grav All reactions 250 lb or less at joint(s) 23, 14, 22, 21, 20, 19, 18, 17, 16, 15

5-10-0

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

OTHERS

- 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) 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 1-4-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 22, 21,
- 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.



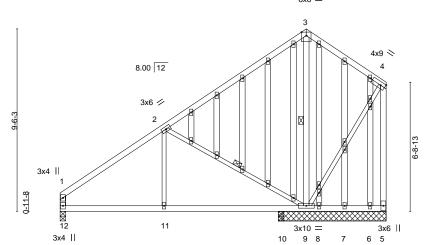


Job Truss Truss Type Qty Lot 153 HT 146562131 210463 K2 **GABLE**

Wheeler Lumber, Waverly, KS - 66871, | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:33 2021 | Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-yjp3dLXcjcw8eU7Ke2D4Z79ReFo7imTd2iY4?Lz6Muq 12-10-0 17-0-0 7-4-15 4-2-0

> Scale = 1:60.1 6x6 =



	 	5-5-1 5-5-1	11-8-0 6-2-15	12-10-0 1-2-0	17-0-0 4-2-0	
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 0.66 BC 0.24 WB 0.65 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.03 10-11 -0.06 10-11 0.01 5 0.01 11	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 131 lb FT = 10%

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

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

2-11,2-9,4-9: 2x3 SPF No.2

OTHERS 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS

1 Row at midpt 2-9, 3-9

REACTIONS. All bearings 5-7-8 except (jt=length) 12=0-3-8, 10=0-3-8.

Max Horz 12=328(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 12, 6 except 5=-466(LC 21), 9=-240(LC 8)

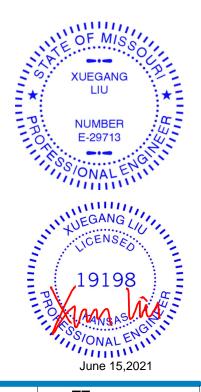
Max Grav All reactions 250 lb or less at joint(s) 5, 8, 7, 6 except 12=397(LC 1), 9=1173(LC 1), 10=274(LC 3)

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

TOP CHORD 1-2=-411/78, 2-3=-38/377, 3-4=0/339, 1-12=-329/82, 4-5=0/460

BOT CHORD 11-12=-244/397. 10-11=-244/397. 9-10=-244/397 **WEBS** 2-9=-588/263, 3-9=-681/60, 4-9=-457/63

- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 1-4-0 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) 12, 6 except (it=lb) 5=466, 9=240.
- 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.







Job Truss Truss Type Qty Ply Lot 153 HT 146562132 210463 **K3** Monopitch Girder

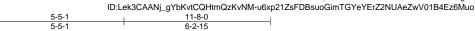
Wheeler Lumber, Waverly, KS - 66871, **Z** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:35 2021 Page 1

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

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

except end verticals.

1 Row at midpt



Scale = 1:49.2

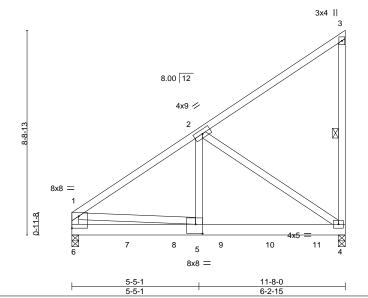


Plate Off	sets (X,Y)	[1:Edge,0-6-2], [5:0-3-8,0-4-12]		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.09 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.16 4-5 >833 240
BCLL	0.0 *	Rep Stress Incr NO	WB 0.80	Horz(CT) 0.01 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.05 4-5 >999 240 Weight: 142 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS.

(size) 4=0-3-8, 6=0-3-8 (req. 0-3-9)

Max Horz 6=327(LC 7)

Max Uplift 4=-249(LC 8), 6=-354(LC 8) Max Grav 4=3939(LC 1), 6=4519(LC 1)

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

TOP CHORD 1-2=-4009/166, 1-6=-2641/137 **BOT CHORD** 5-6=-372/820, 4-5=-239/3260

WFBS 2-5=-86/3921, 2-4=-3912/349, 1-5=-34/2482

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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) 6 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=249, 6=354.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1241 lb down and 163 lb up at 0-1-12, 1234 lb down and 170 lb up at 2-5-4, 1240 lb down and 31 lb up at 4-5-4, 1240 lb down and 31 lb up at 6-5-4, and 1240 lb down and 31 lb up at 8-5-4, and 1240 lb down and 31 lb up at 10-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

O **XUEGANG** LIU NUMBER E-29713 ONAL ONAL DEGANG LICENSES minn June 15,2021

Continued on page 2

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



Job Truss Truss Type Qty Ply Lot 153 HT 146562132 210463 K3 Monopitch Girder **Z** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:35 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:Lek3CAANi_gYbKvtCQHtmQzKvNM-u6xp21ZsFDBsuoGimTGYeYErZ2NUAeZwV01B4Ez6Muo

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 6=-1241(B) 7=-1234(B) 8=-1240(B) 9=-1240(B) 10=-1240(B) 11=-1240(B)



Job Truss Truss Type Qty Ply Lot 153 HT 146562133 210463 L₁ **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:37 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

4-4-0

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qU2aTja6nrRa76Q5tul0jzKGxsCLekJDzKWl87z6Mum 9-6-8 8-8-0 0-10-8

Scale = 1:24.3 3x4 =

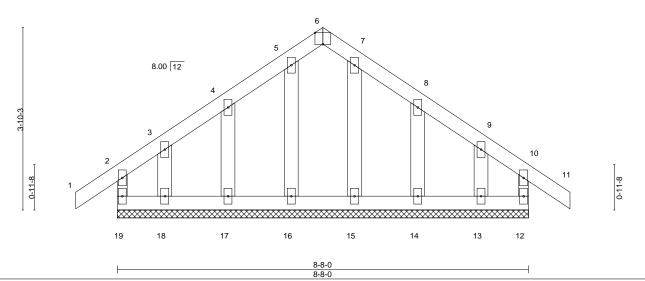


Plate Off	sets (X,Y)	[6:0-2-0,Edge]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 11 n/r 120 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 11 n/r 120	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 12 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 39 lb FT = 10%	

LUMBER-BRACING-

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

REACTIONS. All bearings 8-8-0.

Max Horz 19=118(LC 7) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 18, 17, 14, 13

All reactions 250 lb or less at joint(s) 19, 12, 18, 17, 16, 15, 14, 13

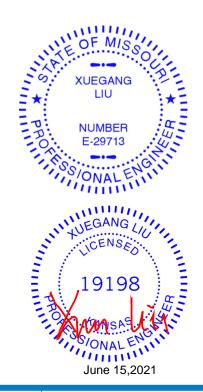
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

OTHERS

1) Unbalanced roof live loads have been considered for this design.

0-10-8

- 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) 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 1-4-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 18, 17,
- 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.







Job Truss Truss Type Qty Ply Lot 153 HT 146562134 210463 L2 Common | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:39 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANi_gYbKvtCQHtmQzKvNM-ntAKuOcMJShIMPaT?JKUoOPYZfsu6eHWQd?OD?z6Muk 9-6-8 8-8-0 0-10-8 4-4-0 4-4-0 0-10-8 Scale = 1:25.6 4x5 = 3 8.00 12 5 0-11-8 0-11-8 7 2x4 || 3x10 || 3x10 || 4-4-0 4-4-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.01 >999 360 197/144 **TCLL** 1.15 0.38 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.03 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 6 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.01 7-8 >999 240 Weight: 28 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

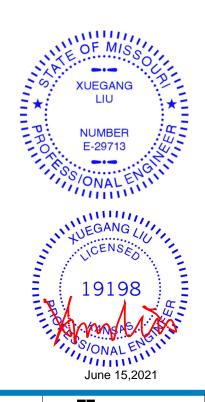
> 8=0-3-8, 6=0-3-8 (size) Max Horz 8=118(LC 7) Max Uplift 8=-64(LC 8), 6=-64(LC 9) Max Grav 8=449(LC 1), 6=449(LC 1)

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

2-3=-371/72, 3-4=-371/72, 2-8=-392/96, 4-6=-392/96 TOP CHORD

NOTES-

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

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

except end verticals.





Job Truss Truss Type Qty Ply Lot 153 HT 146562135 210463 L3 **GABLE**

Wheeler Lumber, Waverly, KS - 66871,

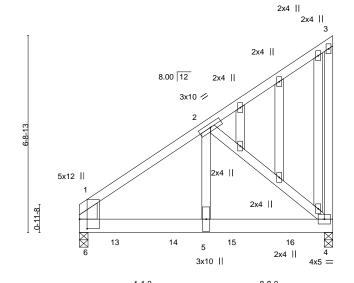
Z Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:40 2021 Page 1 ID:Lek3CAANj_qYbKvtCQHtmQzKvNM-F3ki5kc?4mp9_Z9gY0rjLcylw39vr04ffHlylRz6Muj

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

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

8-8-0 4-4-0 4-4-0

Scale = 1:39.4



_Plate Off	sets (X,Y)	[1:0-3-15,0-3-2]										
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	0.21	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-S	Wind(LL)	0.02	4-5	>999	240	Weight: 124 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

4-4-0

except end verticals.

4-4-0

LUMBER-

OTHERS

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SP 2400F 2.0E WEBS 2x4 SPF No.2 *Except*

1-6: 2x8 SP DSS 2x4 SPF No.2

REACTIONS. (size) 4=0-3-8, 6=0-3-8

Max Horz 6=247(LC 5)

Max Uplift 4=-184(LC 8), 6=-207(LC 8) Max Grav 4=2820(LC 1), 6=3049(LC 1)

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

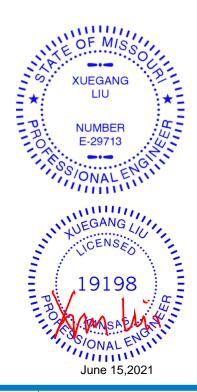
TOP CHORD 1-2=-2546/108, 1-6=-1534/100 **BOT CHORD** 5-6=-177/2037, 4-5=-177/2037 2-5=-68/2746, 2-4=-2607/248 **WEBS**

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 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

- Webs connected as follows: 2x4 1 row at 0-9-0 oc. 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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 4) 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.
- 5) Gable studs spaced at 1-4-0 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) except (jt=lb) 4=184, 6=207.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1283 lb down and 181 lb up at 1-2-12, 1283 lb down and 35 lb up at 3-2-12, and 1281 lb down and 35 lb up at 5-2-12, and 1281 lb down and 35 lb up at 7-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



COARIGASE(S)geStandard



Job	Truss	Truss Type	Qty	Ply	Lot 153 HT
210463	L3	GABLE	1		I46562135
210-100	20	ONDEE		2	Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:41 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-jGI5J4ddr3x0cjks6jMytpUwgTU8aTKotxUVHuz6Mui

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb) Vert: 13=-1283(F) 14=-1283(F) 15=-1281(F) 16=-1281(F)



Job Truss Truss Type Qty Ply Lot 153 HT 146562136 210463 LAY1 **GABLE**

Wheeler Lumber, Waverly, KS - 66871, | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:41 2021 | Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-jGI5J4ddr3x0cjks6jMytpUzUTZQaYGotxUVHuz6Mui 2-10-13 2-10-13

> Scale = 1:21.6 3x4 =

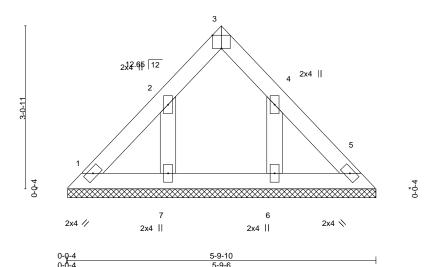


Plate Off	Plate Offsets (X,Y) [3:Edge,0-3-0], [4:0-0-0,0-0-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a		n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-P						Weight: 19 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-9-10 oc purlins.

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

REACTIONS. All bearings 5-9-6.

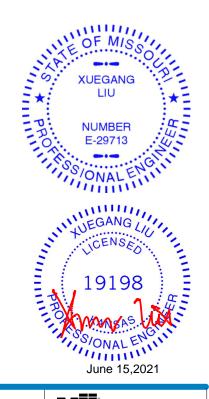
Max Horz 1=-72(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) 7, 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.





Job Truss Truss Type Qty Lot 153 HT 146562137 210463 LAY2 **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:44 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-7rzDx6gV7_JaTBSRnswfVS6Tbgb0nskFavj9uDz6Muf 6-8-7 4-9-10 11-11-11 Scale = 1:56.2 3x4 //

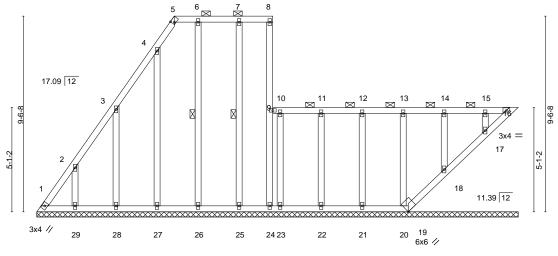


Plate Offsets (X,Y)--[5:0-1-2,Edge] SPACING-L/d LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) 999 197/144 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.23 Horz(CT) -0.01 16 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Weight: 133 lb Matrix-S

BRACING-

BOT CHORD

18-1-5

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8, 9-24,

5-4-6

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

6-0-0 oc bracing: 17-18,16-17. **WEBS** 1 Row at midpt 6-26, 7-25

REACTIONS. All bearings 23-5-11.

Max Horz 1=559(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 19, 26, 25, 23, 22, 21, 20, 18, 17 except 1=-256(LC 6),

16=-104(LC 8), 29=-200(LC 8), 28=-190(LC 8), 27=-243(LC 8)

11-6-1

Max Grav All reactions 250 lb or less at joint(s) 24, 16, 19, 29, 28, 26, 25, 23, 22, 21, 20, 18, 17 except 1=588(LC 8), 27=253(LC 15)

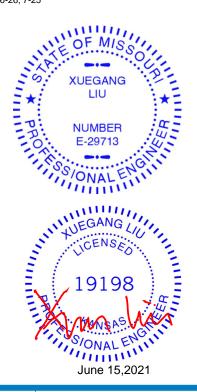
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-729/366, 2-3=-539/283, 3-4=-342/198

WEBS 4-27=-213/266

LUMBER-

- 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 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) 24, 19, 26, 25, 23, 22, 21, 20, 18, 17 except (jt=lb) 1=256, 16=104, 29=200, 28=190, 27=243.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 18, 17.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Ply Lot 153 HT 146562138 210463 LAY3 **GABLE** | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:45 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-b1Xb8Sg7uIRR4L1dLZRu2ffeh4wWWMzOoZSjQfz6Mue 3-0-0 3-10-6

Scale = 1:25.0

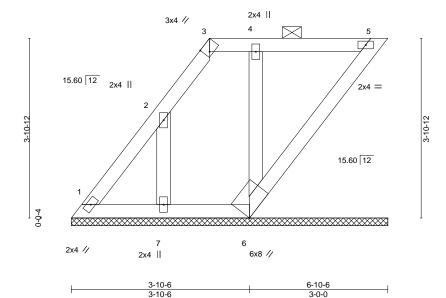


Plate Offsets (X,Y)	[3:0-1-4,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 25 lb FT = 10%

LUMBER-

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

OTHERS 2x4 SPF No.2 BRACING-

TOP CHORD

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

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

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

REACTIONS. All bearings 6-10-6.

Max Horz 1=147(LC 8) (lb) -

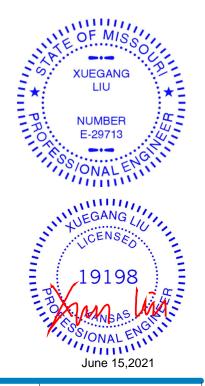
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=-143(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

NOTES-

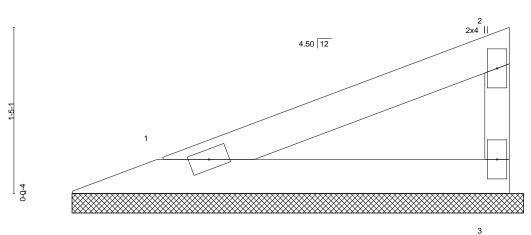
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 1, 5, 6 except (it=lb) 7=143.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 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.







Job Truss Truss Type Qty Lot 153 HT 146562139 210463 V1 VALLEY | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:46 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3D5zMohlfcZliUcqvHy7atCnTUGkFppX1DCGz5z6Mud



2x4 = 2x4 II

BRACING-

TOP CHORD

BOT CHORD

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 0.14 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 9 lb FT = 10%

LUMBER-

REACTIONS.

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

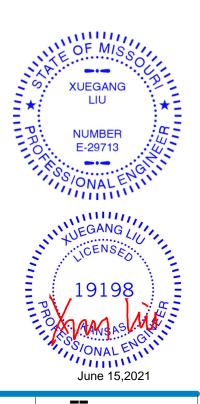
WEBS 2x3 SPF No.2

> 1=3-10-5, 3=3-10-5 (size) Max Horz 1=48(LC 5) Max Uplift 1=-20(LC 8), 3=-28(LC 8) Max Grav 1=128(LC 1), 3=128(LC 1)

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

NOTES-

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



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

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

except end verticals.

Scale = 1:9.8



Job Truss Truss Type Qty Lot 153 HT 146562140 Valley 210463 V3 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:47 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-YQfMZ7iOQvh9KeB0T_TM74kytucy_GXhGtxpVYz6Muc 3-8-0 3-8-0 Scale = 1:13.9 4x5 = 2 6.00 12 0-0-4 4 2x4 || 2x4 / 2x4 < 7-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.16 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 17 lb FT = 10% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

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

OTHERS 2x3 SPF No.2

REACTIONS. 1=7-3-0, 3=7-3-0, 4=7-3-0 (size)

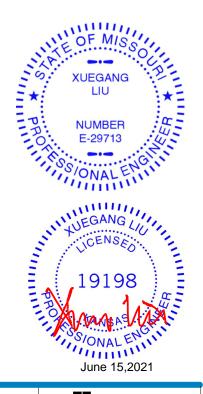
Max Horz 1=27(LC 12)

Max Uplift 1=-33(LC 8), 3=-37(LC 9), 4=-3(LC 8) Max Grav 1=143(LC 1), 3=143(LC 1), 4=261(LC 1)

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=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





Job Truss Truss Type Qty Lot 153 HT 146562141 210463 V4 Valley | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:48 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-0cDknTj0BDp0xomC0i?bflH6Blw6jgMqUXhN1_z6Mub 22-11-12 11-5-14 11-5-14 Scale = 1:48.6 4x5 = 8.00 12 0-0-4 3x4 / 13 12 10 9 8 11

	22-11-12 22-11-6								
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 0.19 BC 0.15 WB 0.25 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 10%

3x4 =

BRACING-LUMBER-

TOP CHORD 2x4 SPF No 2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x3 SPF No.2

REACTIONS. All bearings 22-11-0.

Max Horz 1=192(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-155(LC 8), 13=-132(LC 8), 10=-154(LC 9),

8=-133(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=400(LC 18), 12=489(LC 15), 13=412(LC 15),

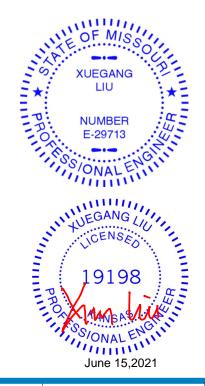
10=488(LC 16), 8=412(LC 16)

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

3-12=-319/204, 2-13=-275/174, 5-10=-319/204, 6-8=-276/174 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=1.60 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 1 except (jt=lb) 12=155, 13=132, 10=154, 8=133.
- 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.





Truss Type Qty 146562142 210463 V5 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Jun 2 2021 MiTek Industries, Inc. Mon Jun 14 12:26:49 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Uon6_pjeyXxtZyLOaPWqCVqHqhGOS8f_jBQwaQz6Mua 9-11-14 9-11-14 Scale = 1:38.9 4x5 = 8.00 12 3 -0-0 3x4 // 12 11 10 9 8 19-11-12 19-11-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) 999 197/144 **TCLL** 1.15 0.20 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 61 lb FT = 10% **BRACING-**

TOP CHORD

BOT CHORD

Lot 153 HT

LUMBER-TOP CHORD

REACTIONS.

Job

Truss

2x4 SPF No.2 2x4 SPF No.2

All bearings 19-11-0.

BOT CHORD **OTHERS** 2x3 SPF No.2

> Max Horz 1=166(LC 5) Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-158(LC 8), 12=-111(LC 8), 9=-158(LC 9),

8=-111(LC 9)

All reactions 250 lb or less at joint(s) 1, 7 except 10=384(LC 18), 11=499(LC 15), 12=347(LC 15), Max Grav

9=499(LC 16), 8=347(LC 16)

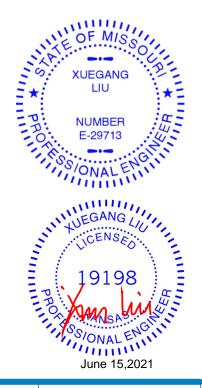
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-11=-325/208, 5-9=-325/208

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) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=158, 12=111, 9=158, 8=111.
- 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.



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

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



Job Truss Truss Type Qty Lot 153 HT 146562143 Valley 210463 V6 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:51 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-QBvsPVIuU8CboGVniqYIHwvd_Vy5w12HBVv1eJz6MuY 8-5-14 8-5-14 Scale = 1:36.0 4x5 = 3 8.00 12 2x4 || 2x4 || 3x4 // 3x4 N 8 7 6 10 2x4 || 2x4 || 2x4 || 16-11-12 16-11-6 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 0.22 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 49 lb FT = 10% LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

BOT CHORD **OTHERS** 2x3 SPF No.2

REACTIONS. All bearings 16-11-0.

Max Horz 1=-139(LC 4)

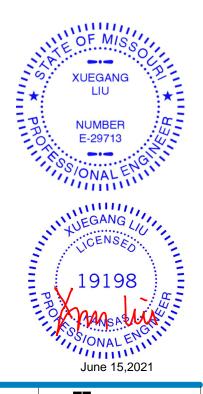
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-172(LC 8), 6=-171(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=353(LC 15), 8=521(LC 15), 6=521(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-347/218, 4-6=-347/217 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=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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) 1 except (jt=lb) 8=172 6=171
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 153 HT 146562144 V7 Valley 210463 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:52 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_qYbKvtCQHtmQzKvNM-uNSFcrmWFSKSQP3zFX3Xq8RpUvJnfVrQP9faAlz6MuX 13-11-12 6-11-14 6-11-14 Scale = 1:29.5 4x5 = 8.00 12 2x4 || 2x4 || 8 7 6 3x4 <> 3x4 / 2x4 || 2x4 II 2x4 || 13-11-12 13-11-6 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 0.17 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 39 lb FT = 10% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

OTHERS 2x3 SPF No.2

REACTIONS. All bearings 13-11-0. Max Horz 1=-113(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-144(LC 8), 6=-143(LC 9)

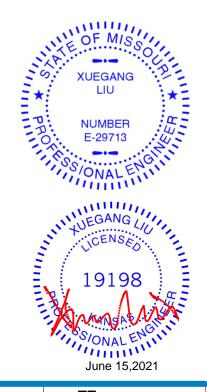
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=282(LC 1), 8=363(LC 15), 6=363(LC 16)

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

2-8=-290/185, 4-6=-290/185 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=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=144 6=143
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 153 HT 146562145 Valley 210463 V8 | Job Reference (optional) 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Mon Jun 14 12:26:56 2021 | Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-n8ilSCp1lgqtv1NIUN8U__cSfWe_bJy0KndoJWz6MuT 5-5-14 5-5-14 Scale = 1:23.5 6x6 = 2 8.00 12 3x4 // 3x4 × 2x4 || 10-11-12 10-11-6 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 0.35 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 29 lb FT = 10% LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

REACTIONS.

1=10-11-0, 3=10-11-0, 4=10-11-0 (size) Max Horz 1=87(LC 5)

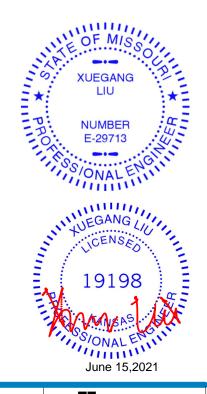
Max Uplift 1=-44(LC 8), 3=-55(LC 9), 4=-17(LC 8) Max Grav 1=232(LC 1), 3=232(LC 1), 4=438(LC 1)

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

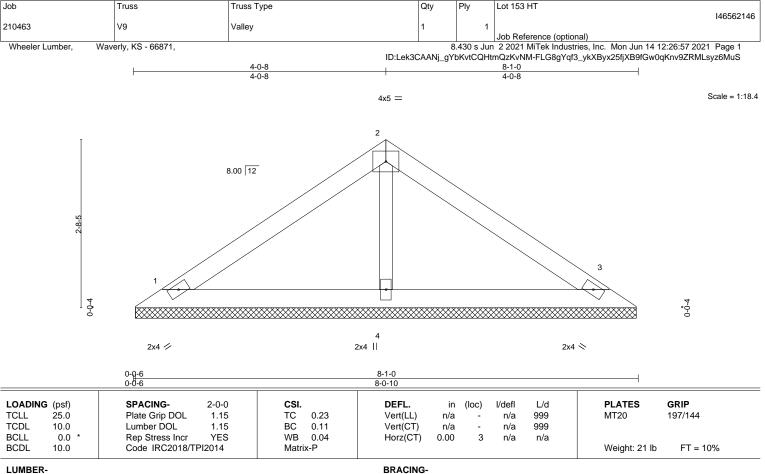
2-4=-285/73 WEBS

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=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD **OTHERS** 2x3 SPF No.2

> 1=8-0-4, 3=8-0-4, 4=8-0-4 (size)

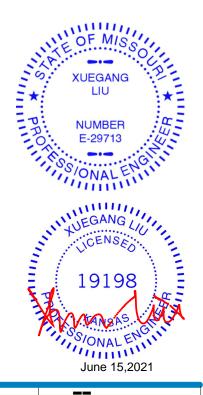
Max Horz 1=-62(LC 4) Max Uplift 1=-40(LC 8), 3=-48(LC 9)

Max Grav 1=180(LC 1), 3=180(LC 1), 4=280(LC 1)

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=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



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

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





Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.