

RE: 400213 Lot 53 H4 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.2

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

This package includes 78 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	140861142	a1	4/3/2020	27	I40861168	e1	4/3/2020
2	140861143	a2	4/3/2020	28	I40861169	e2	4/3/2020
3	140861144	a3	4/3/2020	29	I40861170	j1	4/3/2020
4	140861145	a4	4/3/2020	30	I40861171	j2	4/3/2020
5	140861146	a5	4/3/2020	31	I40861172	j3	4/3/2020
6	140861147	a6	4/3/2020	32	I40861173	j4	4/3/2020
7	140861148	b1	4/3/2020	33	I40861174	j5	4/3/2020
8	140861149	b2	4/3/2020	34	I40861175	j6	4/3/2020
9	140861150	b3	4/3/2020	35	I40861176	j7	4/3/2020
10	I40861151	b4	4/3/2020	36	I40861177	j8	4/3/2020
11	140861152	b5	4/3/2020	37	I40861178	j9	4/3/2020
12	140861153	b6	4/3/2020	38	I40861179	j10	4/3/2020
13	140861154	b7	4/3/2020	39	I40861180	j11	4/3/2020
14	I40861155	c1	4/3/2020	40	I40861181	j12	4/3/2020
15	I40861156	c2	4/3/2020	41	I40861182	j13	4/3/2020
16	I40861157	d1	4/3/2020	42	I40861183	j14	4/3/2020
17	140861158	d2	4/3/2020	43	I40861184	j15	4/3/2020
18	I40861159	d3	4/3/2020	44	I40861185	j16	4/3/2020
19	I40861160	d4	4/3/2020	45	I40861186	j17	4/3/2020
20	140861161	d5	4/3/2020	46	I40861187	j18	4/3/2020
21	140861162	d6	4/3/2020	47	I40861188	j19	4/3/2020
22	I40861163	d7	4/3/2020	48	I40861189	j20	4/3/2020
23	140861164	d8	4/3/2020	49	I40861190	j21	4/3/2020
24	I40861165	d9	4/3/2020	50	I40861191	j22	4/3/2020
25	I40861166	d10	4/3/2020	51	I40861192	j23	4/3/2020
26	I40861167	d11	4/3/2020	52	I40861193	j24	4/3/2020

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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





RE: 400213 - Lot 53 H4

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

Site Information:

Project Name:

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
53	140861194	j25	4/3/2020
54	140861195	j26	4/3/2020
55	140861196	j27	4/3/2020
56	140861197	j28	4/3/2020
57	140861198	j29	4/3/2020
58	140861199	j30	4/3/2020
59	140861200	j31	4/3/2020
60	140861201	lay1	4/3/2020
61	140861202	lay2	4/3/2020
62	140861203	lay3	4/3/2020
63	140861204	lay4	4/3/2020
64	140861205	p1	4/3/2020
65	140861206	p2	4/3/2020
66	140861207	r1	4/3/2020
67	140861208	v1	4/3/2020
68	140861209	v2	4/3/2020
69	140861210	v3	4/3/2020
70	140861211	v4	4/3/2020
71	140861212	v5	4/3/2020
72	140861213	v6	4/3/2020
73	140861214	v7	4/3/2020
74	140861215	v8	4/3/2020
75	140861216	v9	4/3/2020
76	140861217	v10	4/3/2020
77	140861218	v11	4/3/2020
78	140861219	v12	4/3/2020



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MiTek USA, Inc under my direct supervision

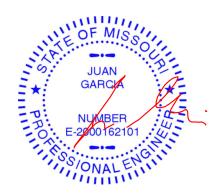
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Missouri COA: 001193

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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63	140861204	lay4	4/3/2020
64	140861205	p1	4/3/2020
65	140861206	p2	4/3/2020
66	140861207	r1	4/3/2020
67	140861208	v1	4/3/2020
68	140861209	v2	4/3/2020
69	140861210	v3	4/3/2020
70	140861211	v4	4/3/2020
71	140861212	v5	4/3/2020
72	140861213	v6	4/3/2020
73	140861214	v7	4/3/2020
74	140861215	v8	4/3/2020
75	140861216	v9	4/3/2020
76	140861217	v10	4/3/2020
77	140861218	v11	4/3/2020
78	140861219	v12	4/3/2020

Job Truss Truss Type Qty Ply Lot 53 H4 140861142 400213 Α1 HIP GIRDER 3 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:15 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

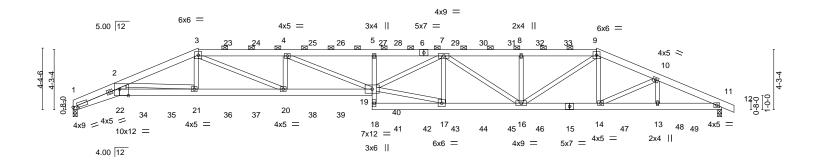
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

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

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

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-653C7AYP?cPD4CJaedt97DS?PrxrZfR2X5ViFYzUTrs 41-5-8 37-1-8 46-0-0 5-7-0 6-2-0 6-2-0 5-0-15 5-5-15 5-4-3 4-4-0 4-6-8 0-10-8

Scale = 1:81.7



3-3-8	8-10-8	15-0-8	21-2-8	26-3-7	31-9-5	37-1-8	41-5-8 4	6-0-0
3-3-8	5-7-0	6-2-0	6-2-0	5-0-15	5-5-15	5-4-3	4-4-0	l-6-8
Plate Offsets (X,Y)	[1:0-3-13,0-1-9], [22:	0-7-8,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DO	L 1.15	TC 0.58	Vert(LL)	-0.40 19-20	>999 360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.72 19-20	>760 240		
BCLL 0.0 *	Rep Stress Inc	cr NO	WB 0.63	Horz(CT)	0.24 11	n/a n/a		
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-S	Wind(LL)	0.53 19-20	>999 240	Weight: 808 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x6 SPF No.2

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

5-18: 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except*

2-22: 2x6 SPF No.2

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=-74(LC 34)

Max Uplift 1=-1231(LC 4), 11=-1265(LC 5) Max Grav 1=2924(LC 1), 11=3077(LC 1)

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

 $1-2 = -13403/5849, \ 2-3 = -8301/3858, \ 3-4 = -10538/5133, \ 4-5 = -11736/5741, \ 5-7 = -11588/5671, \ 5-7 = -1$ TOP CHORD

7-8=-7558/3656, 8-9=-7560/3657, 9-10=-6044/2791, 10-11=-6368/2733

BOT CHORD 1-22=-5360/12309, 21-22=-4611/10559, 20-21=-3513/7668, 19-20=-5025/10537,

5-19=-459/354, 17-18=-556/1138, 16-17=-4125/8659, 14-16=-2488/5554,

13-14=-2418/5700, 11-13=-2418/5700

WEBS 2-22=-1568/3700, 2-21=-2859/1208, 3-21=-376/1069, 3-20=-1678/3292, 4-20=-1221/762,

4-19=-676/1394, 17-19=-3641/7675, 7-19=-1658/3371, 7-17=-1460/801, 7-16=-1400/709,

8-16=-555/406, 9-16=-1300/2541, 9-14=-86/417, 10-14=-156/260, 10-13=-50/261

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1231, 11=1265.





MIS

GARCIA

NUMBER

-2000162101

ONALE

16952

PROMANENTIAL SOLUTION APRIL 3.2

ANSAS GRI

April 3,2020

O

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 53 H4	
400213	Λ.1	HIP GIRDER		_		140861142
400213	A1	HIF GINDEN	'	3	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:15 2020 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-653C7AYP?cPD4CJaedt97DS?PrxrZfR2X5ViFYzUTrs

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.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 121 lb up at 8-10-8, 115 lb down and 121 lb up at 10-11-4, 115 lb down and 121 lb up at 12-11-4, 115 lb down and 121 lb up at 14-11-4, 115 lb down and 121 lb up at 16-11-4, 115 lb down and 121 lb up at 18-11-4, 115 lb down and 121 lb up at 20-11-12, 114 lb down and 118 lb up at 23-0-0, 114 lb down and 118 lb up at 25-0-12, 114 lb down and 118 lb up at 27-0-12, 114 lb down and 118 lb up at 29-0-12, 114 lb down and 118 lb up at 31-0-12, 114 lb down and 118 lb up at 33-0-12, and 114 lb down and 118 lb up at 35-0-12, and 108 lb down and 118 lb up at 37-1-8 on top chord, and 195 lb down and 137 lb up at 4-11-4, 139 lb down and 91 lb up at 6-11-4, 37 lb down and 24 lb up at 8-11-4, 37 lb down and 24 lb up at at 10-11-4, 37 lb down and 24 lb up at 12-11-4, 37 lb down and 24 lb up at 14-11-4, 37 lb down and 24 lb up at 16-11-4, 37 lb down and 24 lb up at 18-11-4, 37 lb down and 24 and 24 lb up at 20-11-12, 37 lb down and 23 lb up at 23-0-0, 37 lb down and 23 lb up at 25-0-12, 37 lb down and 23 lb up at 27-0-12, 37 lb down and 23 lb up at 29-0-12, 37 lb down and 23 lb up at 31-0-12, 37 lb down and 23 lb up at 33-0-12, 37 lb down and 23 lb up at 35-0-12, 37 lb down and 23 lb up at 37-0-12, 139 lb down and 90 lb up at 39-0-12, and 139 lb down and 75 lb up at 41-0-12, and 142 lb down and 76 lb up at 43-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-9=-70, 9-12=-70, 1-22=-20, 19-22=-20, 11-18=-20

Concentrated Loads (lb)

Vert: 3=-48(F) 6=-48(F) 15=-23(F) 21=-22(F) 20=-22(F) 4=-48(F) 9=-48(F) 14=-23(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-48(F) 29=-48(F) 21=-22(F) 20=-22(F) 20=-30=-48(F) 31=-48(F) 32=-48(F) 33=-48(F) 34=-195(F) 35=-139(F) 36=-22(F) 37=-22(F) 38=-22(F) 39=-22(F) 40=-22(F) 41=-23(F) 42=-23(F) 42=-23(F) 44=-23(F) 45=-23(F) 46=-23(F) 47=-139(F) 48=-139(F) 49=-142(F)

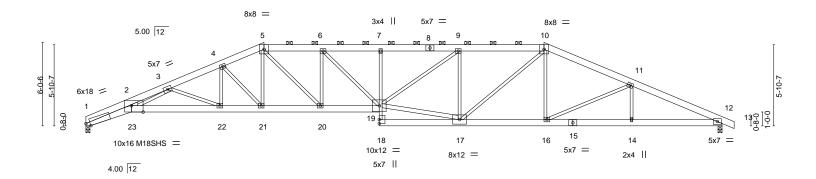


Job Truss Truss Type Lot 53 H4 140861143 400213 A2 Hip

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:17 2020 Page 1

ID:2ncXplsxOfbjlB6i7Q?gPMzrYWU-2UByYsafXDfxKWTzl2wdCeXl8eXt1TVL_P_pKRzUTrq 12-10-8 46₁10₁8 6-0-10 27-0-4 33-1-8 . 39-5-8 46-0-0 2-9-2 3-8-14 3-1-1 4-2-0 4-2-0 5-9-12 6-1-4 6-4-0 6-6-8 0-10-8

Scale = 1:83.3



3-3-8	9-9-7	12-10-8	17-0-8	21-2-8	27-0-4	33-1-8	39-5-8	46-0-0	
3-3-8	6-6-0	3-1-1	4-2-0	4-2-0	5-9-12	6-1-4	6-4-0	6-6-8	<u> </u>
Plate Offsets (X,Y)	[1:0-3-9,Edge], [2:0-2-12,	0-1-2], [23:0-1	0-2,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/de	fl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.54 19-20 >99	9 360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.96 19-20 >56	9 240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.45 12 n/	a n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.38 19-20 >99	9 240	Weight: 246 lb	FT = 10%
					` ′				

LUMBER-**BRACING-**

2x6 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-0-11 oc purlins,

1-5: 2x6 SP DSS 2x6 SPF No.2 *Except*

BOT CHORD 2-0-0 oc purlins (2-11-10 max.): 5-10. 1-23: 2x6 SP DSS, 19-23: 2x6 SPF 1650F 1.4E, 7-18: 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

WEBS 2x3 SPF No.2 *Except* 8-11-9 oc bracing: 1-23

2-23: 2x6 SPF No.2, 17-19: 2x4 SPF No.2 2-2-0 oc bracing: 22-23.

(size) 1=0-3-8, 12=0-3-8 Max Horz 1=-102(LC 13)

Max Uplift 1=-234(LC 4), 12=-266(LC 5)

Max Grav 1=2056(LC 1), 12=2129(LC 1)

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

TOP CHORD 1-2=-8977/1019, 2-3=-7495/918, 3-4=-5281/692, 4-5=-4583/670, 5-6=-4982/765, 6-7=-5269/821, 7-9=-5262/821, 9-10=-4245/684, 10-11=-3851/563, 11-12=-4392/539

BOT CHORD 1-23=-914/8181, 22-23=-734/6193, 21-22=-538/4813, 20-21=-484/4234, 19-20=-614/4979,

7-19=-332/136, 17-18=-41/327, 16-17=-376/3482, 14-16=-427/3918, 12-14=-427/3918

2-23=-163/1990, 3-23=-165/1111, 3-22=-1489/269, 4-22=-41/779, 4-21=-837/168,

5-21=-92/649, 6-19=-97/545, 17-19=-494/3974, 9-19=-183/1309, 9-17=-1304/307,

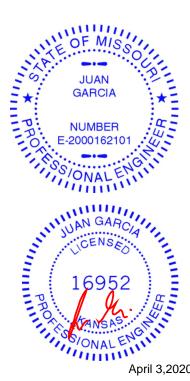
10-17=-203/1162, 10-16=-18/397, 11-16=-491/210, 5-20=-204/1204, 6-20=-746/205

NOTES-

WEBS

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
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 4x5 MT20 unless otherwise indicated.
- 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 1=234, 12=266. 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.



April 3,2020



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

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

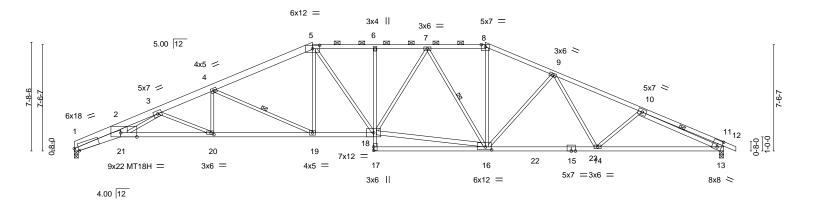
ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Lot 53 H4 140861144 400213 **A3** Hip 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:18 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-WglKmCbHIXnoxg19JmRskr4S52tFmy_UD3kMstzUTrp 46₋10₋8 0-10-8 . 29-1-8 34-0-12 40-1-7 46-0-0 3-8-13 7-1-2 4-4-0 3-9-12 4-1-4 4-11-4 6-0-12 5-10-9

Scale = 1:81.6



	3-3-8	9-9-6	16-10-8	1	21-2-8	29-1-8	ı	36-11	-8	46-0-0	
	3-3-8	6-5-15	7-1-2	ı	4-4-0	7-11-0	ı	7-10-	0	9-0-8	1
Plate Offs	sets (X,Y)	[1:0-3-9,Edge], [2:0-2-1	2,0-1-2], [5:0-6-0	,0-2-15], [<i>*</i>	11:0-3-0,0-0-0], [13:0-3-9,0-5-11], [16	6:0-5-4,0-2	-8], [20:0-2	2-8,0-1-8], [2	21:1-1-11,Edge]	
LOADING	(psf)	SPACING-	2-0-0	CSI		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL) -0.	53 19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT) -0.	95 19-20	>577	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT) 0.	49 13	n/a	n/a		
BCDL	10.0	Code IRC2018/	ΓPI2014	Mat	rix-S	Wind(LL) 0.	32 20-21	>999	240	Weight: 213 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-5: 2x6 SP DSS

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

1-21: 2x6 SPF 1650F 1.4E, 6-17: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-21: 2x6 SPF No.2, 16-18,10-13: 2x4 SPF No.2, 11-13: 2x6 SP DSS

REACTIONS. (size) 1=0-3-8, 13=0-3-8

Max Horz 1=-121(LC 9)

Max Uplift 1=-212(LC 8), 13=-237(LC 9) Max Grav 1=2118(LC 2), 13=2199(LC 2)

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

TOP CHORD 1-2=-9173/949, 2-3=-7684/887, 3-4=-5337/528, 4-5=-3982/471, 5-6=-3860/509,

6-7=-3851/507, 7-8=-3117/416, 8-9=-3420/433, 9-10=-4068/412, 10-11=-1075/156,

11-13=-658/158

1-21=-954/8366, 20-21=-674/6204, 19-20=-444/4892, 18-19=-258/3623, 6-18=-310/121, **BOT CHORD**

14-16=-270/3492, 13-14=-331/3744

WEBS 2-21=-108/2067, 3-21=-236/1325, 3-20=-1426/250, 4-20=-8/810, 4-19=-1415/318,

5-19=-58/845, 5-18=-104/598, 16-18=-297/3355, 7-18=-66/643, 7-16=-1016/179,

8-16=-76/1077, 9-16=-583/227, 9-14=-27/423, 10-13=-3152/344

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=212, 13=237.
- 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.



Structural wood sheathing directly applied or 1-10-13 oc purlins,

4-19, 7-16, 10-13

except end verticals, and 2-0-0 oc purlins (2-8-13 max.): 5-8.

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

2-2-0 oc bracing: 1-21,20-21.

1 Row at midpt

April 3,2020



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

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



Job Truss Truss Type Qty Lot 53 H4 140861145 400213 A4 Hip 1

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:20 2020 Page 1

Structural wood sheathing directly applied, except end verticals, and

4-25, 6-23, 8-23, 12-15

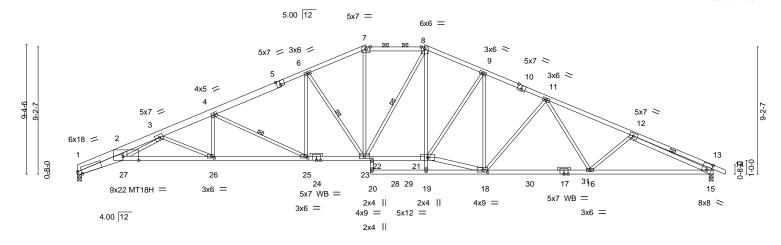
2-0-0 oc purlins (3-0-2 max.): 7-8.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing

ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-S3t5BucXq81VBzBXRBTKpG9nEsYyEtpnhNDTwlzUTrn 25-1-8 29-5-6 33-10-15 . 40-1-8 46-0-0 2-9-4 3-8-12 6-9-3 4-3-13 4-3-0 4-3-14 4-5-10 6-2-9 5-10-8 0-10-8

Scale = 1:83.4



 							-
3-3-8	6-6-0	6-9-3	4-3-13 0-4-0 3-11-0	4-3-14	7-7-10	8-11-1	
₁ 3-3-8 ₁	9-9-8	16-6-11	20-10-8 21 ₁ 2-8 25-1-8	₁ 29-5-6	37-0-15	46-0-0	

[1:0-3-9,Edge], [2:0-1-12,0-0-12], [5:0-3-8,Edge], [10:0-3-8,Edge], [13:0-3-0,0-0-0], [15:0-3-9,0-5-11], [18:0-4-0,0-1-12], [25:0-2-8,0-1-8], [26:0-2-8,0-1-8],

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.56 25-26	>974	360	MT20	197/144
TCDL '	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.97 25-26	>563	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.50 15	n/a	n/a		
BCDL '	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.34 26-27	>999	240	Weight: 222 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-5: 2x6 SP DSS

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

1-27: 2x6 SPF 1650F 1.4E, 21-24: 2x4 SPF No.2

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

2-27,12-15,18-21: 2x4 SPF No.2, 13-15: 2x6 SP DSS

OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 15=0-3-8

Max Horz 1=151(LC 12)

Max Uplift 1=-248(LC 8), 15=-273(LC 9) Max Grav 1=2178(LC 2), 15=2262(LC 2)

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

TOP CHORD 1-2=-9296/1143, 2-3=-8026/1063, 3-4=-5510/618, 4-6=-4136/438, 6-7=-3487/380,

7-8=-3179/373, 8-9=-3475/354, 9-11=-3578/403, 11-12=-4214/460, 12-13=-1088/167,

13-15=-654/162

BOT CHORD 1-27=-1161/8462, 26-27=-846/6409, 25-26=-580/5046, 23-25=-300/3746, 22-23=-103/3185, 21-22=-103/3185, 16-18=-243/3623, 15-16=-402/3872

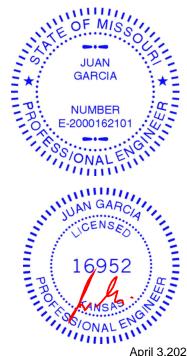
2-27=-151/1970, 3-27=-267/1455, 3-26=-1483/290, 4-26=-26/836, 4-25=-1451/312, **WEBS**

6-25=-68/821, 6-23=-992/252, 8-23=-263/280, 8-21=-144/1040, 9-21=-266/202,

11-18=-606/209, 11-16=-22/433, 12-15=-3281/352, 7-23=-72/1037, 18-21=-118/3304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=248, 15=273,
- 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 53 H4 140861146 400213 **A5** Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:21 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-xFRTOEdAbS9Mo7mk_u_ZMUixeFu_zJbxv1y0TCzUTrm

Structural wood sheathing directly applied, except end verticals.

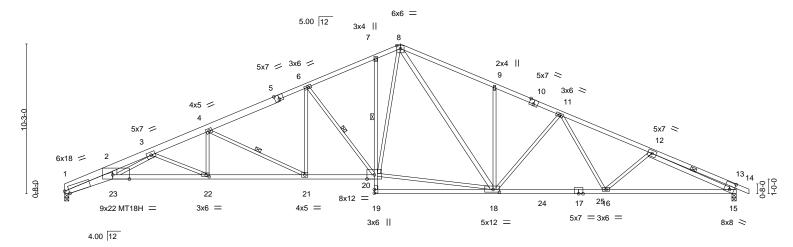
4-21, 6-20, 12-15

Rigid ceiling directly applied or 7-9-6 oc bracing. Except:

7-20

23-0-0 29-5-6 40-1-8 46-0-0 34-0-12 2-9-4 3-8-12 6-9-2 4-7-14 1-9-8 6-5-6 4-7-7 6-0-11 5-10-8 0-10-8

Scale = 1:78.9



	₁ 3-3-8	9-9-8	16-6-10	1	21-2-8	29-5-6) I	3	6-11-8	46-0-0	i i	
	3-3-8	6-6-0	6-9-2		4-7-14	8-2-14	'		7-6-3	9-0-8	1	
Plate Offs	ets (X,Y)	[1:0-3-9,Edge], [2:0-1-1	2,0-0-12], [5:0-3-	8,Edge], [10	0:0-3-8,Edge	, [13:0-3-0,0-0-0],	[15:0-3-9,0-5-	11], [18:0-	5-4,0-2-4], [22	0-2-8,0-1-8], [23:1-1-	11,Edge]	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.53 21-22	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.93 21-22	>588	240	MT18H	197/144	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.48 15	n/a	n/a			
BCDL	10.0	Code IRC2018/	TPI2014	Matrix	x-S	Wind(LL)	0.35 22-23	>999	240	Weight: 219 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 8-10: 2x4 SPF 2100F 1.8E, 1-5: 2x6 SP DSS

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

1-23: 2x6 SPF 1650F 1.4E, 7-19: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-23,8-18,12-15: 2x4 SPF No.2, 13-15: 2x6 SP DSS

REACTIONS. (size) 15=0-3-8, 1=0-3-8

Max Horz 1=167(LC 12)

Max Uplift 15=-289(LC 9), 1=-264(LC 8) Max Grav 15=2198(LC 2), 1=2118(LC 2)

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

TOP CHORD 1-2=-9026/1237, 2-3=-7791/1143, 3-4=-5318/673, 4-6=-3976/486, 6-7=-3226/416,

7-8=-3144/463, 8-9=-3449/545, 9-11=-3430/438, 11-12=-4064/498, 12-13=-1072/168,

13-15=-654/162

BOT CHORD 1-23=-1264/8216, 22-23=-928/6209, 21-22=-646/4867, 20-21=-362/3601,

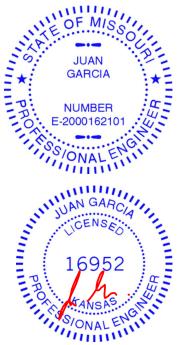
16-18=-276/3488, 15-16=-437/3744

WEBS 2-23=-174/1912, 3-23=-281/1427, 3-22=-1461/306, 4-22=-33/819, 4-21=-1413/317, 6-21=-66/856, 6-20=-1124/265, 18-20=-163/2448, 8-20=-275/1490, 8-18=-306/983,

9-18=-396/207, 11-18=-583/197, 11-16=-26/435, 12-15=-3153/390

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 MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=289, 1=264.
- 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 Lot 53 H4 140861147 400213 A6 Roof Special 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:22 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-PR?rcaeoMmHDQHLwYbVovhF6QfGcilj48hiZ?ezUTrl 16-6-10 29-5-6 38-0-0 3-3-8

6-5-6

6-5-6

8-6-11

Structural wood sheathing directly applied or 1-11-10 oc purlins,

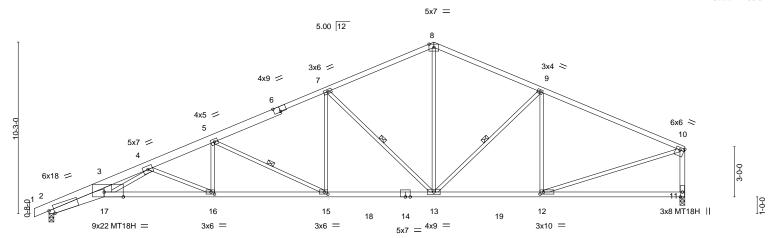
5-15, 7-13, 9-13

Rigid ceiling directly applied or 7-8-15 oc bracing.

except end verticals.

1 Row at midpt

Scale = 1:68.8



38₇0-0 16-6-10 23-0-0 6-5-14 6-9-4 6-5-6 6-5-6 Plate Offsets (X,Y)--[2:0-3-9,Edge], [3:0-2-12,0-1-2], [6:0-4-8,Edge], [10:0-3-0,0-1-12], [12:0-2-8,0-1-8], [15:0-2-8,0-1-8], [16:0-2-8,0-1-8], [17:1-1-11,Edge] **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d 197/144 **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.91 Vert(LL) -0.45 16-17 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.82 Vert(CT) -0.79 16-17 >570 240 MT18H 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.91 Horz(CT) 0.33 11 n/a n/a Code IRC2018/TPI2014 BCDL Matrix-S Wind(LL) 0.32 16-17 >999 240 Weight: 160 lb FT = 10% 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

8-10: 2x4 SPF 2100F 1.8E, 1-6: 2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2 *Except*

4.00 12

2-17: 2x6 SPF 1650F 1.4E, 14-17: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

3-17: 2x6 SPF No.2, 10-11: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8. 11=0-3-8

Max Horz 2=210(LC 8)

2-9-1

3-8-13

6-9-4

Max Uplift 2=-265(LC 8), 11=-182(LC 9) Max Grav 2=1834(LC 2), 11=1790(LC 2)

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

TOP CHORD 2-3=-7664/1206, 3-4=-6449/1097, 4-5=-4250/611, 5-7=-3019/431, 7-8=-2063/319,

8-9=-2071/341, 9-10=-2215/246, 10-11=-1653/226

BOT CHORD 2-17=-1277/6993, 16-17=-914/5070, 15-16=-625/3877, 13-15=-353/2710,

12-13=-163/1966

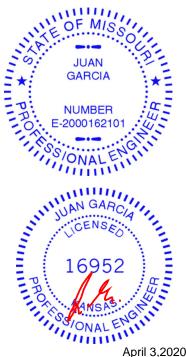
3-17=-177/1664, 4-17=-291/1265, 4-16=-1298/314, 5-16=-39/759, 5-15=-1301/304, **WEBS**

7-15=-53/834, 7-13=-1223/308, 8-13=-132/1208, 9-13=-340/172, 9-12=-419/147,

10-12=-147/1964

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 MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=265, 11=182,
- 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 Lot 53 H4 140861148 400213 B1 ROOF SPECIAL Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:23 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-teYDpwfQ73P42Rw66J01RvnJ93alRGEDNKR7X4zUTrk

6-9-2

Scale = 1:61.6 5x7 =

28-4-0

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

7-12

3-14, 4-13, 6-12, 9-10, 8-10

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

except end verticals.

1 Row at midpt

1 Row at midpt

23-0-0

1-10-0

21-2-0

4-7-5

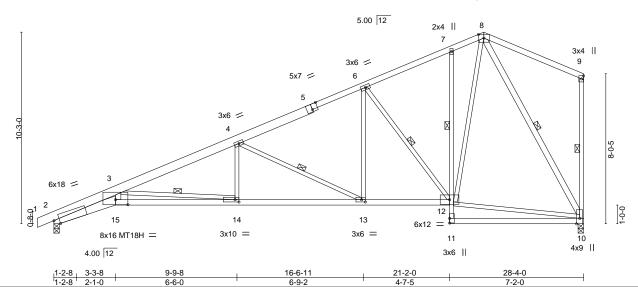


Plate Offsets (X,Y)	[2:0-3-9,Edge], [5:0-3-8,Edge], [13:0-2-	8,0-1-8], [14:0-2-8,0-1-8], [15:0-8-0,0-3-4]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLA	ATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.32 14-15 >999 360 MT2	20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.60 14-15 >566 240 MT1	18H 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.28 10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.28 14-15 >999 240 Weig	ght: 145 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-5: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

-0-10-8 0-10-8

2-9-4

3-8-13

2-15: 2x6 SPF No.2, 12-15: 2x4 SPF 2100F 1.8E, 7-11: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

3-15,8-10: 2x4 SPF No.2

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

Max Horz 2=336(LC 7)

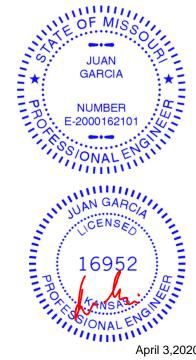
Max Uplift 2=-217(LC 8), 10=-186(LC 8) Max Grav 2=1337(LC 1), 10=1262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5309/997, 3-4=-2763/464, 4-6=-1643/293, 6-7=-947/223, 7-8=-880/275 **BOT CHORD** 2-15=-1084/4829, 14-15=-975/4268, 13-14=-509/2549, 12-13=-211/1405 **WEBS** 3-15=-265/1548, 3-14=-1729/468, 4-14=0/423, 4-13=-1276/333, 6-13=-71/682,

6-12=-992/257, 8-12=-271/1196, 10-12=-167/512, 8-10=-1242/176

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 MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=217, 10=186,
- 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.





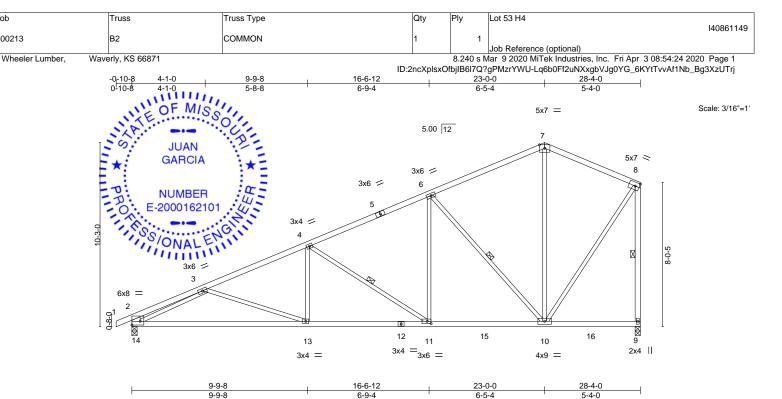


Plate Offsets (X,Y)	[2:Edge,0-2-8], [2:0-2-12,0-1-2], [11:0-2	-8,0-1-8]		
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.53 BC 0.96	DEFL. in (loc) I/defl L/d Vert(LL) -0.23 13-14 >999 360 Vert(CT) -0.47 13-14 >712 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.92 Matrix-S	Horz(CT) 0.07 9 n/a n/a Wind(LL) 0.09 11-13 >999 240	Weight: 124 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

Job

400213

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

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

2-14: 2x6 SPF No.2, 8-9: 2x4 SPF No.2

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

Max Horz 14=342(LC 5)

Max Uplift 14=-218(LC 8), 9=-186(LC 8) Max Grav 14=1376(LC 2), 9=1359(LC 2)

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

2-3=-719/30, 3-4=-2182/319, 4-6=-1477/261, 6-7=-721/184, 7-8=-695/207, TOP CHORD

2-14=-448/85, 8-9=-1260/220

13-14=-514/2033, 11-13=-355/1962, 10-11=-190/1296 BOT CHORD

4-13=0/352, 4-11=-797/197, 6-11=-37/682, 6-10=-1067/288, 3-14=-1691/389, WEBS 8-10=-138/1052

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=218, 9=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.



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

4-11, 6-10, 8-9

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

except end verticals.

1 Row at midpt

April 3,2020



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

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

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





Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:25 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-p0g_EbggfhfoHl4VDk3VWKseXtKrv5PWqewEczzUTri

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

9-10, 7-15, 7-12, 8-10

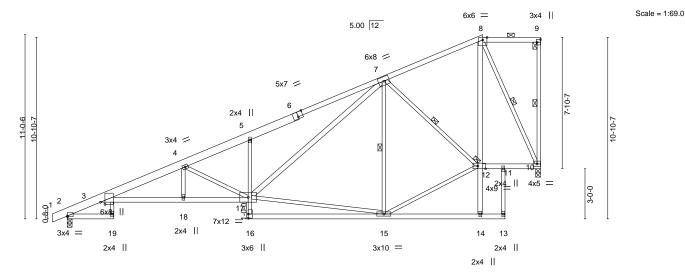
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.

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

1 Row at midpt

1 Brace at Jt(s): 9, 12

26-2-8 28-4-0 1-4-0 2-1-8 -0₋10-8 0-10-8 24-10-8 2-9-8 4-2-0 3-10-9 8-1-7 5-11-1



		2-9-8	6-11-8	10-10-0		18-11-7			24-10-8		28-4-0	
		2-9-8	4-2-0	3-10-9	<u>'</u>	8-1-7	,		5-11-1	1-4-0	2-1-8	
Plate Offse	ets (X,Y)	[2:0-0-4,0-0-8], [3:0-1-9,0	0-3-3], [6:0-3-8	Edge], [9:Edg	je,0-2-8], [1:	2:0-5-8,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.31	19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.56	19	>605	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.26	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix-	-S	Wind(LL)	0.30	19	>999	240	Weight: 161 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-6: 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

3-17: 2x4 SPF 2100F 1.8E, 5-16: 2x3 SPF No.2

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

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

Max Horz 2=413(LC 5)

Max Uplift 10=-225(LC 8), 2=-202(LC 8) Max Grav 10=1264(LC 1), 2=1351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2-3=-724/0,\ 3-4=-3399/587,\ 4-5=-2509/466,\ 5-7=-2562/604,\ 7-8=-628/160$

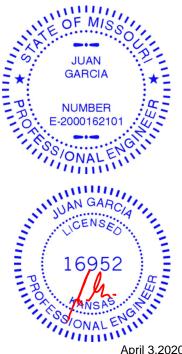
BOT CHORD 3-18=-769/3233, 17-18=-769/3233, 5-17=-410/247, 11-12=-126/498, 10-11=-126/498

WEBS 4-17=-1114/253, 15-17=-198/869, 7-17=-486/1687, 7-15=-450/219, 7-12=-672/220,

8-12=-211/1027, 8-10=-1236/251, 12-15=-214/1114

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) 10=225, 2=202.
- 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 Lot 53 H4 140861151 400213 B4 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:27 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-lPokfHiwBlvWX2DuL95zcly_ag0yN3KplyPKgrzUTrg 17-9-0 20-10-8 2-9-8 3-4-12 5-11-15 5-6-13 3-1-8 Scale = 1:63.4 3x4 = 3x4 = 6x12 = 5.00 12 6x6 || 5x7 = 3x6 = 6 9-2-7 3x6 = 1 22 9-0-**1**3 15 8x12 = 23 3x6 = 3x6 = 12 11 10 16 10-10-0 2-7-8 3x6 = 8x8 = 17-9-0 12-2-4 3-4-12 5-11-15 5-6-13 3-1-8 Plate Offsets (X,Y)--[2:0-0-0,0-0-8], [3:0-0-7,0-1-15], [6:0-3-8,Edge], [8:0-6-0,0-1-5], [10:Edge,0-3-8], [11:0-2-8,0-1-8], [14:0-2-8,0-1-8] GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.88 Vert(LL) -0.31 16 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.68 Vert(CT) -0.5416 >622 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.76 Horz(CT) 0.53 22 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-S Wind(LL) 0.27 16 >999 240 Weight: 156 lb

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-6: 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-16,8-10,17-19,18-20: 2x4 SPF No.2 2x4 SPF No 2

OTHERS

REACTIONS. (size) 2=0-3-8, 22=0-2-8

Max Horz 2=311(LC 8)

Max Uplift 2=-179(LC 8), 22=-181(LC 4) Max Grav 2=1394(LC 2), 22=1323(LC 2)

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

TOP CHORD 2-3=-697/0, 3-4=-3707/565, 4-5=-2406/334, 5-7=-1485/210, 7-8=-1403/274,

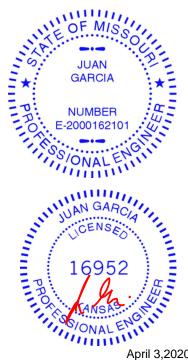
10-21=-138/1127, 9-21=-138/1127

BOT CHORD 3-15=-789/3561, 14-15=-789/3561, 13-14=-438/2153, 10-11=-129/846

5-14=-32/662, 5-13=-1085/282, 11-13=-105/904, 8-13=-327/1249, 8-10=-1266/227, **WEBS**

4-14=-1473/368, 9-22=-1325/181

- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 22=181.
- 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.



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

5-13, 8-11, 8-10, 4-14, 9-22

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

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

1 Row at midpt

April 3,2020



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

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

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



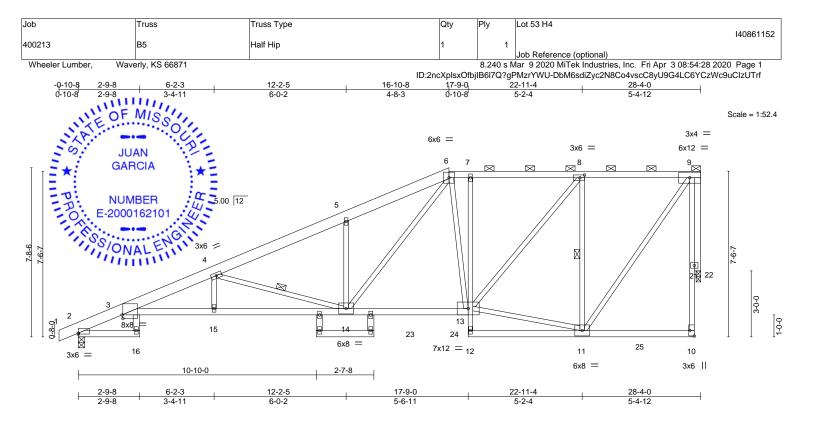


Plate Offsets (X,Y)	[2:0-0-0,0-0-8], [3:0-0-7,0-1-15], [8:0-	2-8,0-1-8], [10:Edge,0-2-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL)	-0.31 1	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT)	-0.54 10	6 >626	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.46 2	2 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.25	5 >999	240	Weight: 156 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

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

6-9: 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF No.2

2x3 SPF No.2 *Except* WFBS

3-16,17-19,18-20: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 22=0-2-8

Max Horz 2=245(LC 5)

Max Uplift 2=-176(LC 8), 22=-197(LC 4) Max Grav 2=1397(LC 2), 22=1324(LC 2)

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

7-8=-1408/200, 8-9=-822/133

BOT CHORD 3-15=-678/3589, 14-15=-678/3589, 13-14=-227/1442, 7-13=-252/109

WEBS 4-14=-1515/366, 5-14=-324/193, 6-14=-279/1165, 11-13=-144/810, 8-13=-164/928,

2-3=-682/0, 3-4=-3733/525, 4-5=-2401/294, 5-6=-2361/386, 6-7=-1412/199,

8-11=-1093/262, 9-11=-196/1336, 9-22=-1327/198

TOP 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 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

(Confirmed companical connection (by others) of truss to bearing plate at joint(s) 22



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JUAN GARCIA

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

4-14, 8-11

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

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

1 Row at midpt

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

Job	Truss	Truss Type	Qty	Ply	Lot 53 H4	
400040	D.E.		_		14	0861152
400213	B5	Half Hip	1	1	Job Reference (optional)	
					deb receive (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:28 2020 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-DbM6sdiZyc2N8Co4vscC8yU9G4LC6YCzWc9uClzUTrf

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 22=197.
- 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 Lot 53 H4 140861153 400213 B6 Half Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:29 2020 Page 1 Wheeler Lumber,

Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-iowU4zjBivAEmMNGSa7RhA1L4UgYrxt6lGuRlkzUTre

Structural wood sheathing directly applied or 3-9-12 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-0-1 max.): 5-8.

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

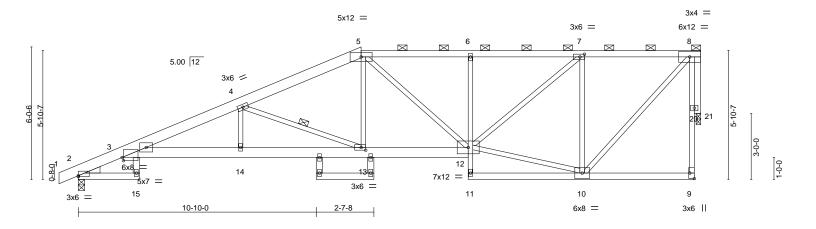
4-13

6-0-0 oc bracing: 2-15.

1 Row at midpt

22-11-4 28-4-0 4-7-3 5-5-13 4-10-8 5-2-4 5-4-12

Scale = 1:52.4



	2-9-8	7-4-11	12-10-8	17-9-0	22-11-4	28-4-0
	2-9-8	4-7-3	5-5-13	4-10-8	5-2-4	5-4-12
Plate Offse	ts (X,Y) [2:0-0-0,0-0-8], [3:0-0-12,0-1-1	1], [7:0-2-8,0-1-8], [9:Edge,0-2	-8], [13:0-2-8,0-1-8]		
LOADING	(psf)	SPACING- 2-0-	0 CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.82	Vert(LL) -0.:	28 15 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.1	5 BC 0.74	Vert(CT) -0.	51 15 >657 240	
BCLL	0.0 *	Rep Stress Incr YE	S WB 0.89	Horz(CT) 0.	42 21 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.:	23 15 >999 240	Weight: 148 lb FT = 10%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

5-8: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

3-12: 2x6 SPF 1650F 1.4E, 6-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-15,16-18,17-19: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 21=0-2-8

Max Horz 2=200(LC 5)

Max Uplift 2=-158(LC 8), 21=-210(LC 4) Max Grav 2=1349(LC 1), 21=1237(LC 1)

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

TOP CHORD 2-3=-625/0, 3-4=-3413/394, 4-5=-2213/302, 5-6=-1861/311, 6-7=-1854/310,

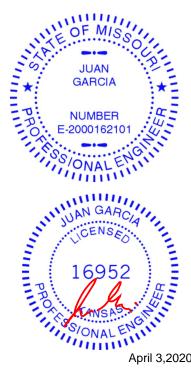
BOT CHORD 3-14=-476/3206, 13-14=-476/3206, 12-13=-327/1972, 6-12=-370/152 WEBS

4-14=0/321, 4-13=-1348/321, 5-13=-51/628, 10-12=-191/941, 7-12=-190/1126,

7-10=-1148/292, 8-10=-231/1403, 8-21=-1245/212

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 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) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 21=210.
- 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.



April 3,2020



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

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

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



Job Truss Truss Type Qty Ply Lot 53 H4 140861154 400213 B7 HALF HIP GIRDER Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:31 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:aaMms2PE?htzY4KmTyeY9qz3619-eA1FUflREXQy?gXfa_Avmb6i3HQEJwmPCaNYpdzUTrc

6-1-4

21-0-8

6-0-12

Scale = 1:50.6

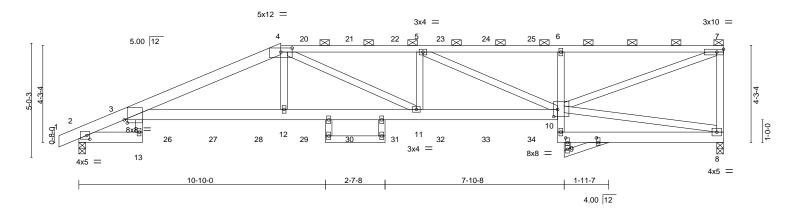
7-3-8

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

except end verticals, and 2-0-0 oc purlins (5-4-14 max.): 4-7.

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

6-0-0 oc bracing: 2-13.



	2-9-8	8-10-	8	ı	14-11-12	1	- 2	21-0-8		1	28-4-0	
	2-9-8	6-1-0)	l	6-1-4	l l	(6-0-12		1	7-3-8	ı
Plate Offsets	ts (X,Y)	[2:0-1-10,0-2-0], [3:0-1-1	0,0-1-10], [4:0-6	5-0,0-2-2], [9	9:0-2-7,0-1-0]	, [10:0-2-0,0-3	12], [19:0-	2-8,0-1	-0]			
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL	-0.26	3-12	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT	-0.46	3-12	>732	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(C	0.25	8	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(L	.) 0.30	3-12	>999	240	Weight: 335 lb	FT = 10%
						,	<u>′</u>					

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

8-10-8

6-1-0

TOP CHORD 2x6 SP DSS *Except* 4-7: 2x4 SPF No.2

-0-10-8 0-10-8

2x4 SPF No.2 *Except* 2-13,3-10,8-9: 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2

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

Max Horz 2=174(LC 5)

Max Uplift 8=-692(LC 5), 2=-690(LC 8) Max Grav 8=1799(LC 1), 2=1990(LC 1)

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

TOP CHORD 2-3=-877/308, 3-4=-4706/1872, 4-5=-4700/2083, 5-6=-3679/1598, 6-7=-3639/1565,

7-8=-1704/725

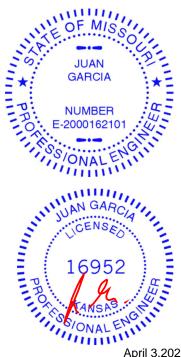
BOT CHORD 3-12=-1865/4373, 11-12=-1877/4415, 10-11=-2130/4700, 6-10=-564/320 **WEBS** 3-13=-86/290, 4-12=-250/838, 4-11=-300/426, 5-10=-1126/550, 7-10=-1679/3887

BOT CHORD

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (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) Provide adequate drainage to prevent water ponding
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 8=692, 2=690,
- 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.



April 3,2020

Continued on page 2



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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 53 H4	
400040	D.7	LIALE LUD OIDDED				140861154
400213	B7	HALF HIP GIRDER	1	2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:31 2020 Page 2 ID:aaMms2PE?htzY4KmTyeY9qz3619-eA1FUflREXQy?gXfa_Avmb6i3HQEJwmPCaNYpdzUTrc

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 105 lb up at 9-11-4, 114 lb down and 118 lb up at 11-11-4, 115 lb down and 121 lb up at 13-11-4, 115 lb down and 121 lb up at 15-11-4, 116 lb up at 15-11-4, 115 lb down and 121 lb up at 15-11-4, 115 lb down and 121 lb up at 15-11-4, and 115 lb down and 121 lb up at 15-11-4, and 115 lb down and 121 lb up at 15-11-4, and 115 lb down and 121 lb up at 15-11-4, 37 lb down and 23 lb up at 15-11-4, 37 lb down and 23 lb up at 15-11-4, 37 lb down and 24 lb up at 15-11-4, 37 lb down and 24 lb up at 15-11-4, and 37 lb down and 24 lb up at 15-11-4, 37 lb down and 24 lb up at 15-11-4, and 37 lb down and 25 lb up at 15-11-4, and 37 lb down and 47 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 37 lb down and 48 lb up at 15-11-4, and 48 lb up at 1 and 24 lb up at 19-11-4, and 289 lb down and 146 lb up at 21-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

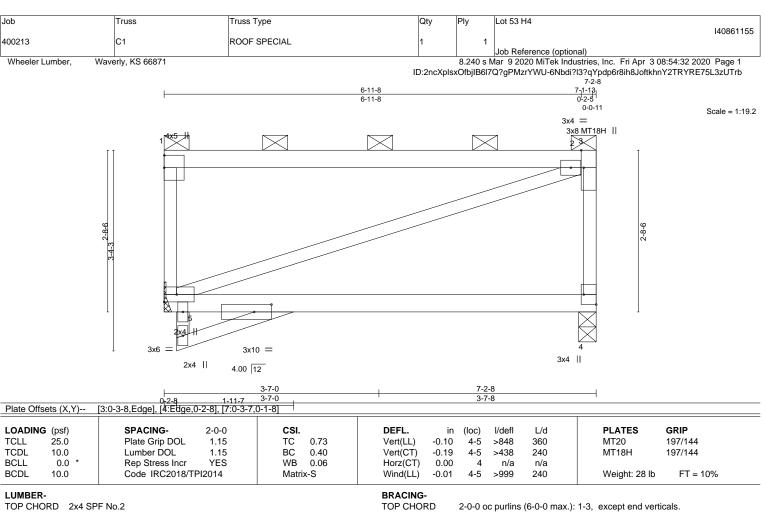
Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 2-13=-20, 3-10=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 10=-289(B) 20=-44(B) 21=-48(B) 22=-48(B) 23=-48(B) 24=-48(B) 25=-48(B) 26=-171(B) 27=-139(B) 28=-139(B) 29=-45(B) 30=-23(B) 31=-22(B) 32=-22(B) 33=-22(B) 34=-22(B)





BOT CHORD

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

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

4-5: 2x4 SPF No.2

WEBS 2x3 SPF No.2

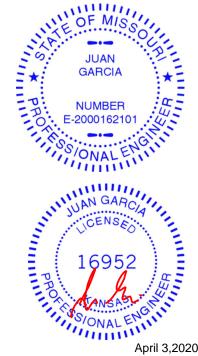
REACTIONS. (size) 5=Mechanical, 4=0-3-8

Max Horz 5=92(LC 5)

Max Uplift 5=-75(LC 4), 4=-75(LC 5) Max Grav 5=315(LC 1), 4=315(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
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 5, 4.
- 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.





Job Truss Truss Type Qty Lot 53 H4 140861156 400213 C2 MONOPITCH Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:32 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6Nbdi?l3?qYpdp6r8ih8Jofynhm02KOYRE75L3zUTrb 3-3-8 3-3-8 0-10-8 Scale = 1:24.7 2x4 || 4 5.00 12 3x6 = 3 ⁶ 5x7 = 1-0-0 0-8-0 3x4 4.00 12 3x4 = 8-4-0 5-0-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl TCLL 25.0 Plate Grip DOL Vert(LL) -0.05 >999 197/144 1.15 TC 0.41 6 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.50 Vert(CT) -0.10 5-6 >960 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Wind(LL) 0.05 6 >999 240 Weight: 30 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-6: 2x6 SPF No.2 **WEBS** 2x3 SPF No.2

REACTIONS.

(size) 5=0-3-8, 2=0-3-8 Max Horz 2=149(LC 5)

Max Uplift 5=-86(LC 8), 2=-74(LC 8) Max Grav 5=359(LC 1), 2=440(LC 1)

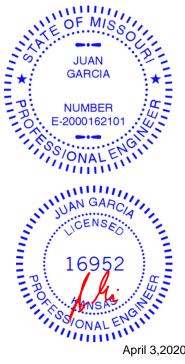
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1303/304

BOT CHORD 2-6=-349/1172, 5-6=-320/1046 WFBS 3-6=-60/448, 3-5=-1059/352

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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-0-14 oc purlins,

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

except end verticals.

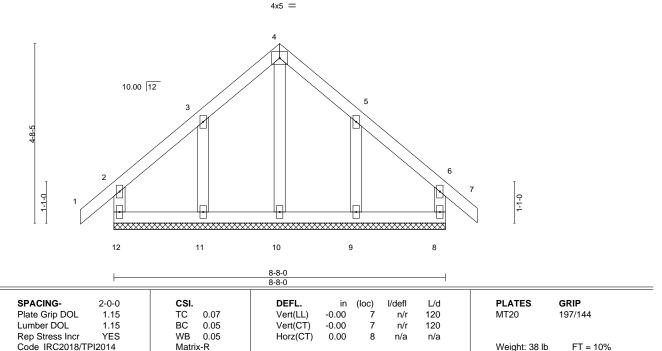


Job Truss Truss Type Qty Lot 53 H4 140861157 D1 400213 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:33 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aZ9?vKmhm8gfFzh1hPCNr0CCk5DKnxzigusfuVzUTra

-0-10-8 0-10-8 0-10-0 4-4-0 4-4-0

Scale = 1:30.1



LUMBER-BRACING-

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

Matrix-R

REACTIONS. All bearings 8-8-0. (lb) -Max Horz 12=146(LC 7)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 12, 8 except 11=-123(LC 8), 9=-122(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

NOTES-

LOADING (psf)

25.0

10.0

0.0

10.0

TCLL

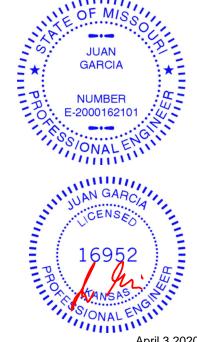
TCDL

BCLL

BCDL

OTHERS

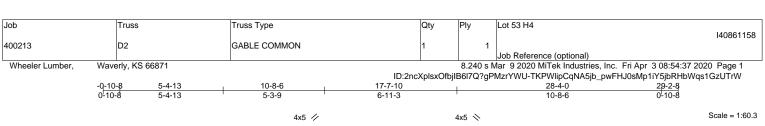
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber 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.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8 except (jt=lb) 11=123, 9=122.
- 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.

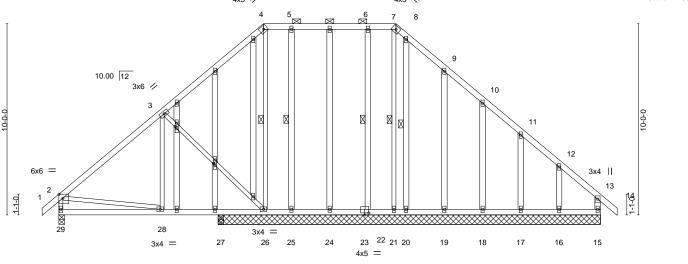


Weight: 38 lb

FT = 10%







	3-4-13 Z-11-	2-4-0	0-11-3	10-6-0	
Plate Offsets (X,Y) [2:0	0-2-8,Edge], [22:0-1-12,0-0-0], [23:0-	0-0,0-1-12], [23:0-2-8,0-1	-4], [33:0-1-8,0-1-0], [36:	0-1-8,0-1-0]	
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 0.37 BC 0.19 WB 0.66 Matrix-S		28-29 >999 360 28-29 >999 240	PLATES GRIP MT20 197/144 Weight: 195 lb FT = 10%

17-7-10

UMBER-		BRACING-
OP CHORD	2x4 SPF No.2	TOP CHORD

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

13-15: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-7. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 28-29,27-28,26-27.

28-4-0

1 Row at midpt

WEBS 4-26, 7-21, 5-25, 6-22, 8-20

REACTIONS. All bearings 20-0-0 except (jt=length) 29=0-3-8, 27=0-3-8.

Max Horz 29=285(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 21, 15, 25, 22, 18, 17 except 29=-135(LC 9), 26=-159(LC 8),

10-8-6

19=-105(LC 9), 16=-170(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 21, 15, 24, 20, 19, 18, 17, 27 except 29=551(LC 16),

26=664(LC 15), 25=260(LC 22), 22=277(LC 21), 16=271(LC 16)

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

2-3=-501/214, 3-4=-193/294, 4-5=-79/259, 5-6=-79/258, 6-7=-79/258, 7-8=-92/289, 8-9=-96/281, 2-29=-467/162

28-29=-268/348, 27-28=-105/369, 26-27=-105/369

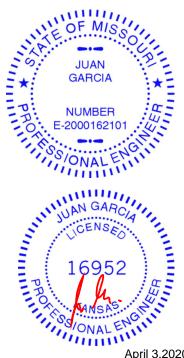
WEBS 3-26=-475/226, 4-26=-275/78

NOTES-

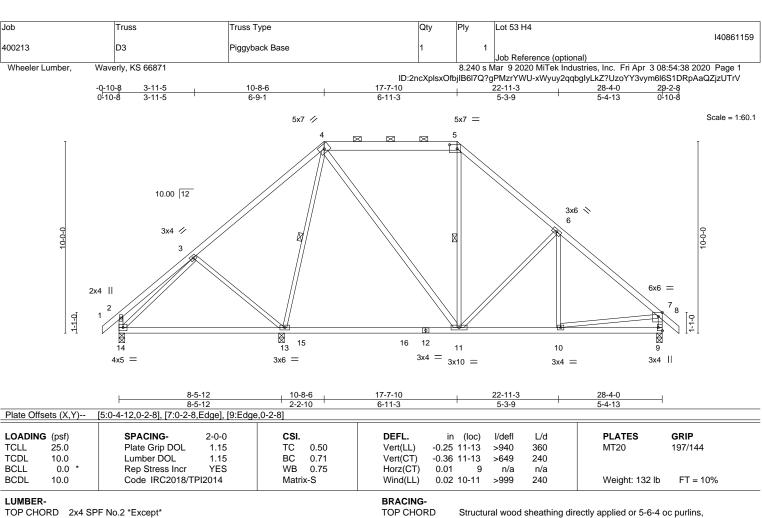
BOT CHORD

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) Provide adequate drainage to prevent water ponding
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 15, 25, 22, 18, 17 except (jt=lb) 29=135, 26=159, 19=105, 16=170.
- 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.







BOT CHORD

WEBS

REACTIONS.

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* 4-11: 2x4 SPF No.2

(size) 13=0-3-8, 14=0-3-8, 9=0-3-8

Max Horz 14=283(LC 7)

Max Uplift 13=-148(LC 8), 14=-46(LC 9), 9=-129(LC 9) Max Grav 13=1351(LC 15), 14=497(LC 21), 9=1007(LC 16)

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

TOP CHORD 4-5=-521/216, 5-6=-774/197, 6-7=-1031/144, 7-9=-913/158

BOT CHORD 13-14=-188/381, 11-13=-100/303, 10-11=0/721

WEBS 3-13=-364/287, 4-13=-835/86, 4-11=-75/559, 6-11=-388/223, 3-14=-331/104,

7-10=0/572

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



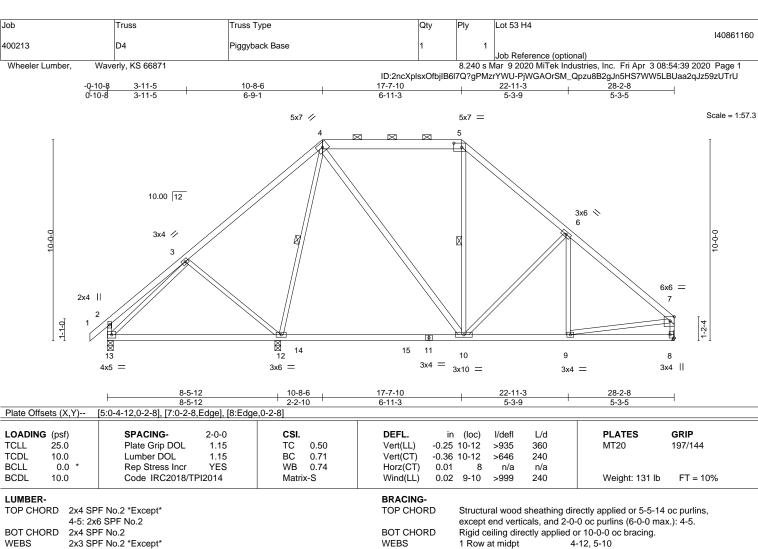
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

4-13, 5-11

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

1 Row at midpt





4-10: 2x4 SPF No.2

REACTIONS. (size) 12=0-3-8, 8=Mechanical, 13=0-3-8

Max Horz 13=277(LC 5)

Max Uplift 12=-154(LC 8), 8=-102(LC 9), 13=-37(LC 9) Max Grav 12=1340(LC 15), 8=936(LC 16), 13=499(LC 21)

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

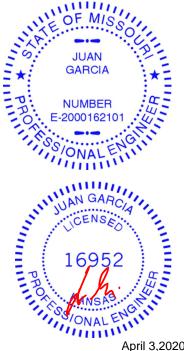
TOP CHORD 4-5=-517/210, 5-6=-771/191, 6-7=-1008/134, 7-8=-843/129

BOT CHORD 12-13=-196/375, 10-12=-99/284, 9-10=-25/711

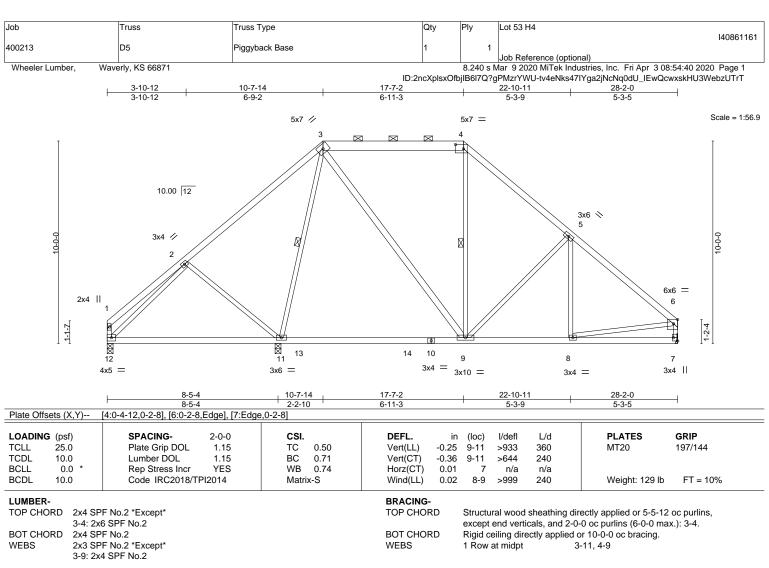
3-12=-363/287, 4-12=-827/91, 4-10=-79/552, 7-9=0/609, 6-10=-379/222, 3-13=-333/97 WEBS

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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 12=154, 8=102
- 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.







(size) 11=0-3-8, 12=0-3-8, 7=Mechanical

Max Horz 12=263(LC 7)

Max Uplift 11=-155(LC 8), 12=-32(LC 9), 7=-101(LC 9) Max Grav 11=1340(LC 15), 12=426(LC 21), 7=936(LC 16)

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

TOP CHORD 3-4=-518/210, 4-5=-772/190, 5-6=-1009/133, 6-7=-844/129

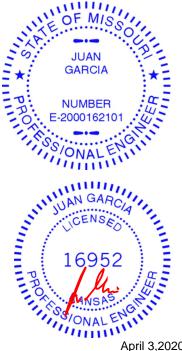
BOT CHORD 11-12=-196/380, 9-11=-99/285, 8-9=-24/711

WEBS 2-11=-367/288, 3-11=-825/93, 3-9=-79/552, 5-9=-379/222, 2-12=-326/103, 6-8=0/609

NOTES-

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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 11=155, 7=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.





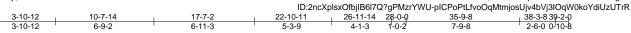
Wheeler Lumber, Waverly, KS 66871

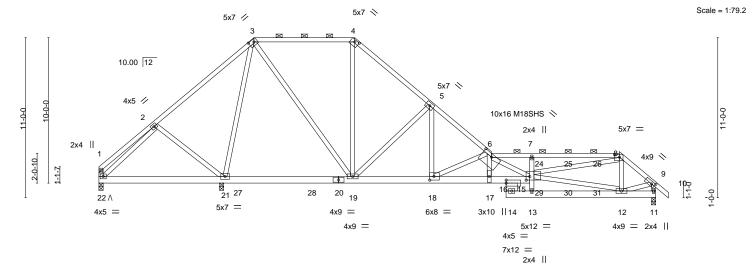
Structural wood sheathing directly applied or 5-11-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-1-1 max.): 3-4, 6-8.

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

6-0-0 oc bracing: 21-22.





	3-10-12 8-5-4 10-7-1		22-10-11	26-11-14	28-0-Q	35-9-8	38-3-8	
	3-10-12 4-6-8 2-2-10		5-3-9	4-1-3	1'-0-2'	7-9-8	2-6-0	
Plate Offsets (X,Y)	[3:0-4-4,0-2-4], [4:0-3-8,0-1-10], [6:0-8-0),0-2-7], [8:0-4-0,0-2-0], [9:	0-2-14,0-2-0], [15:0-3-	·0,0-3-0], [1	16:0-0-0 <u>,</u> 0	-2-8], [18:0-3-8 <u>,</u>	0-3-0]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.3	0 16-17	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.5	2 16-17	>682	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT) 0.0	8 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.1	9 16-17	>999	240	Weight: 483 lb	FT = 10%
			<u> </u>					

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-8: 2x4 SPF 2100F 1.8E **BOT CHORD** 2x6 SP 2400F 2.0E *Except*

14-16: 2x10 SP DSS **WEBS** 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 21=0-3-8, 22=0-3-8

Max Horz 22=-300(LC 4)

Max Uplift 11=-454(LC 9), 21=-870(LC 9), 22=REL Max Grav 11=2767(LC 22), 21=2785(LC 2), 22=481(LC 9)

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

2-3=-624/671, 3-4=-1230/50, 4-5=-1714/0, 5-6=-4202/218, 6-7=-7938/986,

7-8=-7871/996, 8-9=-3146/478, 9-11=-2915/447

BOT CHORD 21-22=-329/650, 19-21=-212/642, 18-19=-5/3186, 17-18=-959/10439, 16-17=-935/10279,

15-16=-488/6796, 14-16=-116/682, 13-14=-446/3483, 12-13=-439/3600

WEBS 2-21=-430/351, 3-21=-2323/859, 3-19=-472/1810, 4-19=0/628, 5-19=-2709/515, 5-18=-341/3134, 6-18=-7860/1033, 6-17=-286/1891, 6-15=-2796/55, 12-15=-1155/115,

8-15=-596/5608, 2-22=-521/268, 9-12=-337/2582, 13-15=-609/223, 7-15=-698/323

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, 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=454, 21=870,
- 10) "\" indicates Released bearing: allow for upward movement at joint(s) 22.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere one share 12 dard ANSI/TPI 1.



F MIS

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April 3,2020



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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 53 H4	
400213	D6	Piggyback Base Girder	1	_	141	0861162
400213		riggyback base Girder	'	2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:42 2020 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-pICPoPtLfvoOqMtmjosUjv4bVj3lOqW0koYdiUzUTrR

NOTES-

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 162 lb down and 99 lb up at 30-2-12, and 162 lb down and 99 lb up at 32-2-12, and 162 lb down and 99 lb up at 34-2-12 on top chord, and 1218 lb down and 265 lb up at 28-1-12, 69 lb down at 30-2-12, 69 lb down at 32-2-12, and 69 lb down at 34-2-12 on top chord, and 1218 lb down and 265 lb up at 28-1-12, 69 lb down at 30-2-12, 69 lb down at 30-2-12, and 69 lb down at 34-2-12, and 230 lb down and 123 lb up at 35-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-8=-70, 8-9=-70, 9-10=-70, 16-22=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 16=-1218(F) 12=-230(F) 24=-112(F) 25=-112(F) 26=-112(F) 29=-53(F) 30=-53(F) 31=-53(F)



Job Truss Truss Type Qty Lot 53 H4 140861163 400213 D7 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:44 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-lgK9D5vbAW363f19rDvyoK9xxXpAsjqJC61knMzUTrP 26-0-4 28-0-0 34-9-14 38-3-8

4-2-6

4-2-12

1-11-12

6-9-14

Structural wood sheathing directly applied or 4-7-13 oc purlins,

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

5-15

6-0-0 oc bracing: 17-18,15-17.

1 Row at midpt

2 Rows at 1/3 pts

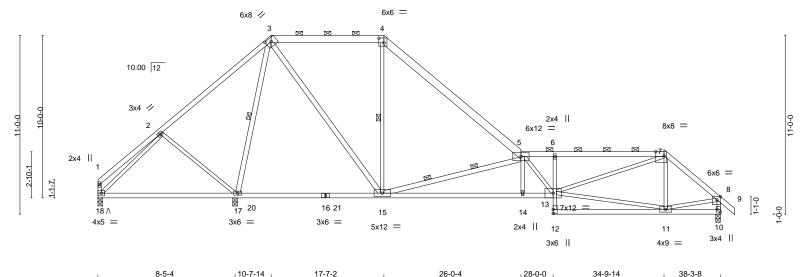
except end verticals, and 2-0-0 oc purlins (3-4-15 max.): 3-4, 5-7.

3-17, 4-15

6-11-3

Scale = 1:70.9

3-5-10



Dieta Off	sets (X,Y)	[3:0-4-0,0-2-10], [4:0-3-1	2-2-10	6-1 1 Edgal 19:0			5-2	1-11-12	2 '	6-9-14	3-5-10
Plate Oil	SelS (A, f)	[3.0-4-0,0-2-10], [4.0-3-1	2,0-3-0], [7.0-6	- ı,⊏ugej, լo.ı	J-2-0,⊏uyej	, [10.Euge,0-2-6]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.29 14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.52 14-15	>683	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.11 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	:-S	Wind(LL)	0.16 14	>999	240	Weight: 18	34 lb FT = 10%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-4,4-5: 2x6 SPF No.2, 5-7: 2x4 SPF 2100F 1.8E

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

3-10-12

6-9-2

6-12: 2x3 SPF No.2, 10-12: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-17,3-15,5-15: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 17=0-3-8 (reg. 0-3-11), 18=0-3-8

Max Horz 18=-300(LC 4)

Max Uplift 10=-184(LC 9), 17=-298(LC 9), 18=REL Max Grav 10=1365(LC 24), 17=2336(LC 2), 18=128(LC 9)

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

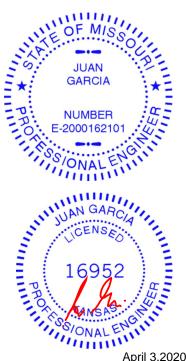
TOP CHORD 2-3=-134/676, 3-4=-808/177, 4-5=-1166/89, 5-6=-3335/376, 6-7=-3330/386,

7-8=-1511/188, 8-10=-1343/188

BOT CHORD 17-18=-334/316, 15-17=-241/371, 14-15=-236/3624, 13-14=-233/3635, 6-13=-370/220 2-17=-436/288, 3-17=-1810/317, 3-15=-228/1277, 5-15=-2941/494, 5-14=0/327, WFBS 5-13=-527/0, 11-13=-88/928, 7-13=-203/2353, 7-11=-284/102, 2-18=-101/323,

8-11=-34/1126

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 17 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) 10=184 17=298
- 8) "\nabla" indicates Released bearing: allow for upward movement at joint(s) 18.
- 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 53 H4 140861164 400213 D8 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:45 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-EttXQRwDxqByhpcLOxQBKYh5pxBJbBDTQmmHJpzUTrO 33-9-14 39-2-0 0-10-8 . 25-0-4 28-0-0 38-3-8

7-5-2

2-11-12

28-0-0

6-0-0 oc bracing: 17-18,15-17.

1 Row at midpt

5-9-14

33-9-14

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

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

except end verticals, and 2-0-0 oc purlins (2-10-1 max.): 3-4, 5-7.

3-17, 4-15, 5-15

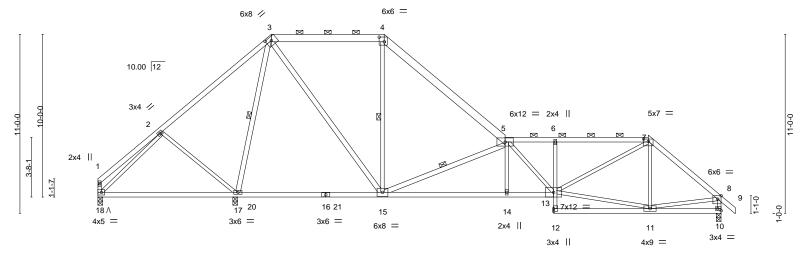
6-11-3

17-7-2

Scale = 1:70.8

4-5-10

38-3-8



	'	8-5-4	2-2-10	6-11-3		7-5-	2 '	2-11-12	'	5-9-14	<u>'</u>	4-5-10	
Plate Offsets	(X,Y)	[3:0-4-0,0-2-10], [4:0-3-12	2,0-3-8], [7:0-3-	-8,0-1-10], [8:0-2-	8,Edge],	[10:Edge,0-1-8]							
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d		PLATES	GRIP	
TCLL 25	5.0	Plate Grip DOL	1.15	TC 0.7	1	Vert(LL)	-0.18 15-17	>999	360		MT20	197/144	
TCDL 10	0.0	Lumber DOL	1.15	BC 0.5	5	Vert(CT)	-0.31 14-15	>999	240				
BCLL (0.0 *	Rep Stress Incr	YES	WB 0.80	0	Horz(CT)	0.08 10	n/a	n/a				
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matrix-S		Wind(LL)	0.10 14	>999	240		Weight: 185	lb FT = 10%	

BRACING-TOP CHORD

BOT CHORD

WEBS

25-0-4

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-4,4-5: 2x6 SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 6-12: 2x3 SPF No.2, 10-12: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 3-17,3-15,5-15: 2x4 SPF No.2

3-10-12

6-9-2

REACTIONS. (size) 10=0-3-8, 17=0-3-8 (reg. 0-3-11), 18=0-3-8

Max Horz 18=-300(LC 4)

Max Uplift 10=-200(LC 9), 17=-227(LC 9), 18=REL Max Grav 10=1365(LC 24), 17=2336(LC 2), 18=78(LC 5)

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

TOP CHORD 2-3=-66/676, 3-4=-801/208, 4-5=-1138/131, 5-6=-2518/352, 6-7=-2516/358,

7-8=-1532/220, 8-10=-1310/217

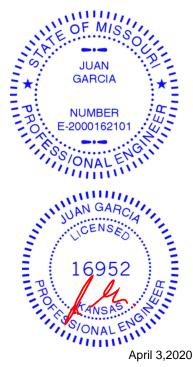
BOT CHORD 17-18=-333/265, 15-17=-244/326, 14-15=-177/2757, 13-14=-175/2764, 6-13=-352/176 2-17=-435/288, 3-17=-1807/253, 3-15=-203/1265, 5-15=-2147/421, 5-14=0/253, WFBS

5-13=-364/1, 11-13=-79/1001, 7-13=-149/1621, 7-11=-253/88, 2-18=-44/319,

10-7-14

8-11=-46/1031

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 17 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) 10=200 17=227
- 8) "\nabla" indicates Released bearing: allow for upward movement at joint(s) 18.
- 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 53 H4 140861165 400213 D9 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:46 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

6-5-2

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-i3Rwenwri8JplzAXyexQtlEDJKSgKbacfPWrrFzUTrN 30-0-0 30-10-8 0-10-8 19-8-8 24-6-6 3-11-12 4-9-14 5-5-10

Scale = 1:66.0

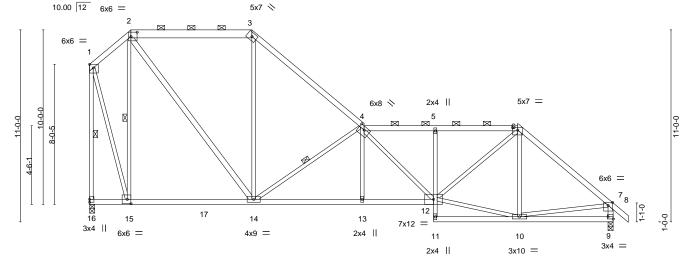


Plate Off	Plate Offsets (X,Y) [1:Edge,0-2-8], [2:0-4-4,0-3-0], [4:0-4-0,0-2-4], [6:0-3-8,0-1-10], [9:Edge,0-1-8], [15:0-2-8,0-3-0]									
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL	25.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.16 12-13 >999 360	MT20 197/144					
TCDL	10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.28 13-14 >999 240						
BCLL	0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.08 9 n/a n/a						
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.10 13 >999 240	Weight: 156 lb FT = 10%					

BRACING-

TOP CHORD

BOT CHORD

WEBS

19-8-8

24-6-6

1 Row at midpt

30-0-0

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

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

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

2-15, 4-14, 1-16

15-8-12

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

2-3: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 5-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-14,7-9: 2x4 SPF No.2

REACTIONS. (size) 16=0-3-8, 9=0-3-8

Max Horz 16=-373(LC 9)

Max Uplift 16=-163(LC 9), 9=-198(LC 9) Max Grav 16=1430(LC 2), 9=1445(LC 2)

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

TOP CHORD 1-2=-444/74, 2-3=-967/208, 3-4=-1379/150, 4-5=-2208/301, 5-6=-2201/303,

6-7=-1632/224, 1-16=-1455/156, 7-9=-1359/225

BOT CHORD 15-16=-196/373, 14-15=-102/477, 13-14=-85/2458, 12-13=-87/2454, 5-12=-355/169,

9-3-10

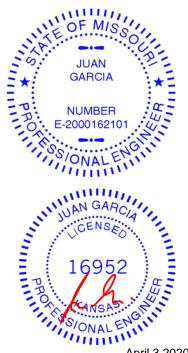
6-11-3

9-3-10

9-10=-127/254

WEBS 2-15=-935/178, 2-14=-227/1087, 3-14=0/430, 4-14=-1793/354, 4-12=-379/0, 10-12=-45/1130, 6-12=-97/1375, 6-10=-269/85, 1-15=-107/1188, 7-10=-74/969

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=163, 9=198,
- 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.

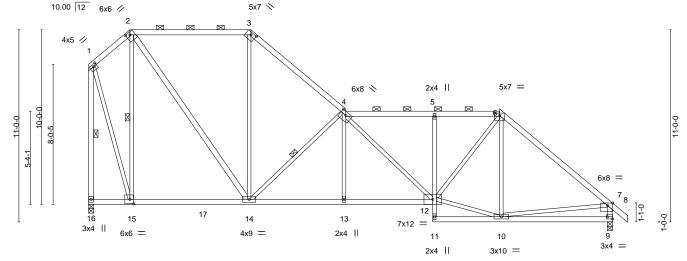




Job Truss Truss Type Qty Lot 53 H4 140861166 400213 D10 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:34 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-2ljN7gnJXSoWs7GEF7jcODkCnVNEWC9rvYcCQxzUTrZ 30-10-8 0-10-8 9-3-10 19-8-8 23-6-6 30-0-0 6-11-3 5-5-3 4-11-12 3-9-14 6-5-10

Scale = 1:66.0



	2-4-6	6-11-3	5-5-3	4-11	-12	3-9-14	ı	6-5-10	
Plate Offsets (X,Y)	[1:0-2-4,0-1-8], [2:0-2-12,	0-1-12], [3:0-3	-8,0-1-10], [4:0-4-0,0-2-4]	[6:0-3-8,0-1-10],	[7:0-3-8,Edge]	, [9:Edge,0)-1-8], [15:0-	2-8,0-3-0]	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.82 BC 0.71 WB 0.82	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 12-13 -0.24 12-13 0.07 9	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TP	PI2014	Matrix-S	Wind(LL)	0.08 13	>999	240	Weight: 157 lb	FT = 10%

14-8-12

LUMBER-

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

5-11: 2x3 SPF No.2 2x3 SPF No.2 *Except* **WEBS**

2-14,1-16,7-9: 2x4 SPF No.2

BRACING-

TOP CHORD

19-8-8

Structural wood sheathing directly applied or 3-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-9 max.): 2-3, 4-6.

30-0-0

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 1 Row at midpt 2-15, 4-14, 1-16

23-6-6

REACTIONS. (size) 16=0-3-8, 9=0-3-8

Max Horz 16=-397(LC 4)

Max Uplift 16=-144(LC 9), 9=-218(LC 9) Max Grav 16=1425(LC 2), 9=1443(LC 2)

2-4-6

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

TOP CHORD 1-2=-513/168, 2-3=-937/242, 3-4=-1314/216, 4-5=-1849/323, 5-6=-1841/322,

6-7=-1631/253, 1-16=-1438/168, 7-9=-1347/252

BOT CHORD 15-16=-234/331, 14-15=-145/465, 13-14=-116/2055, 12-13=-117/2051, 5-12=-357/173,

9-3-10

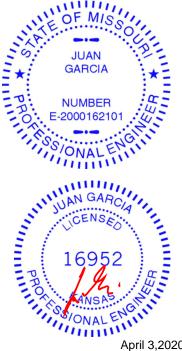
9-10=-190/373

2-15=-937/238, 2-14=-189/1058, 3-14=-2/475, 4-14=-1525/345, 4-12=-297/0, 10-12=-30/1173, 6-12=-157/1152, 6-10=-282/95, 1-15=-150/1180, 7-10=-121/846

NOTES-

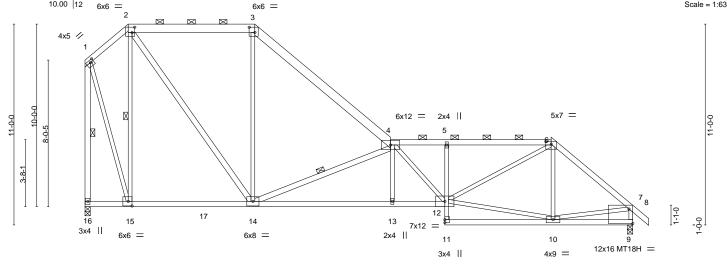
WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) The Fabrication Tolerance at joint 7 = 6%
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=144, 9=218,
- 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.





Job Truss Truss Type Qty Lot 53 H4 140861167 400213 D11 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:36 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-_8r8YMpa332E6RQcNYI4TeqYQl6i_6G8Ms5JUqzUTrX 30-0-0 30-10-8 0-10-8 9-3-10 . 19-8-8 25-6-6 6-11-3 7-5-3 2-11-12 5-9-14 4-5-10 10.00 12 Scale = 1:63.1 6x6 = 6x6 = \boxtimes



	2-4-6	9-3-10		16-8-12		19-8-8		25-6-6		30-0-0	
	2-4-6	6-11-3	<u> </u>	7-5-3	<u>'</u>	2-11-12	<u> </u>	5-9-14		4-5-10	
Plate Offsets (X,) [1:0-2-4,0-1-8	3], [2:0-1-12,0-3-8], [[3:0-3-12,0-3-8], [6	:0-3-8,0-1-10], [9	9:Edge,0-9-8],	9:0-1-4,0-0	0-0], [15	:0-2-8,0-3-	0]		
LOADING (psf)	SPACI	ING- 2-0-0	CSI.		DEFL.	in (loc) l	defl L	/d	PLATES	GRIP
TCLL 25.0	Plate 0	Grip DOL 1.15	TC	0.75	Vert(LL)	-0.20 13	-14 >	999 3	60	MT20	197/144
TCDL 10.0	Lumbe	er DOL 1.15	BC	0.52	Vert(CT)	-0.37 13	-14 >	960 2	40	MT18H	197/144
BCLL 0.0	Rep St	tress Incr YES	WB	0.78	Horz(CT)	0.09	9	n/a r	/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matri	x-S	Wind(LL)	0.12	13 >	999 2	40	Weight: 165 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

BOT CHORD 2x4 SPF No.2 *Except* 12-16: 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-14,4-14,1-16: 2x4 SPF No.2

REACTIONS. (size) 16=0-3-8, 9=0-3-8

Max Horz 16=-396(LC 4)

Max Uplift 16=-143(LC 9), 9=-218(LC 9) Max Grav 16=1427(LC 2), 9=1442(LC 2)

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

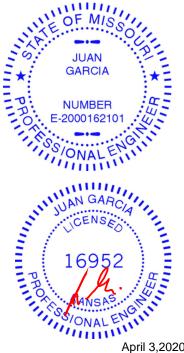
TOP CHORD 1-2=-514/168, 2-3=-962/247, 3-4=-1344/181, 4-5=-2747/404, 5-6=-2744/410,

6-7=-1630/242, 1-16=-1427/172, 7-9=-1381/234

BOT CHORD 15-16=-232/330, 14-15=-136/459, 13-14=-244/3063, 12-13=-242/3070, 5-12=-354/177 2-15=-923/222, 2-14=-201/1109, 3-14=0/414, 4-14=-2307/451, 4-13=0/263, 4-12=-514/0, WFBS 10-12=-95/1069, 6-12=-190/1797, 6-10=-274/94, 1-15=-139/1149, 7-10=-65/1105

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone: cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=143, 9=218,
- 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 4-5-11 oc purlins,

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

1 Row at midpt

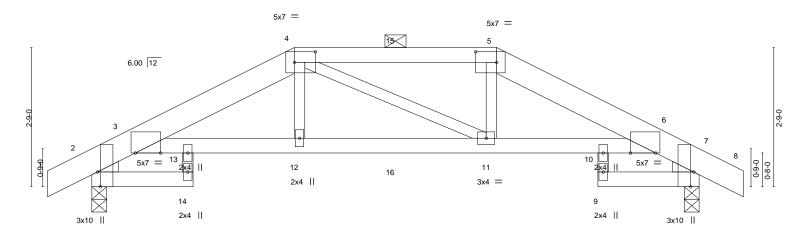
except end verticals, and 2-0-0 oc purlins (2-7-15 max.): 2-3, 4-6.

2-15, 4-14, 1-16



Job Truss Truss Type Qty Lot 53 H4 140861168 400213 E1 Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:48 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-eSZg3Ty6EIZXYHKw43zuyAJgo8BOohKv7j?yw8zUTrL 12-0-0 10-0-0 12-10-8 0-10-8 2-0-0 2-0-0 4-0-0 2-0-0 2-0-0 0-10-8

Scale = 1:22.8



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

		. , 0 1			
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 0.47	Vert(LL) -0.05 11-12 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.09 11-12 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.13	Horz(CT) 0.10 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 12 >999 240	Weight: 48 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

except

10-0-0

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

10-0-0 oc bracing: 10-11

12-0-0

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

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

LUMBER-TOP CHORD 2x6 SPF No.2 *Except*

4-5: 2x4 SPF No.2

2x4 SPF No.2

BOT CHORD

2x3 SPF No.2 **WEBS**

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

REACTIONS. 2=0-3-8, 7=0-3-8 (size) Max Horz 2=44(LC 33)

Max Uplift 2=-189(LC 8), 7=-189(LC 9)

Max Grav 2=920(LC 1), 7=920(LC 1)

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

TOP CHORD 2-3=-593/140, 3-4=-1731/343, 4-5=-1560/325, 5-6=-1733/329, 6-7=-594/135

BOT CHORD 3-13=-294/1535, 12-13=-294/1535, 11-12=-295/1558, 10-11=-269/1537, 6-10=-269/1537

4-0-0

WFBS 4-12=-13/372, 5-11=-20/387

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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=189, 7=189.
- 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) 80 lb down and 70 lb up at 4-0-0, and 88 lb down and 70 lb up at 6-0-0, and 80 lb down and 70 lb up at 8-0-0 on top chord, and 235 lb down and 74 lb up at 4-0-0, and 43 lb down at 6-0-0, and 235 lb down and 74 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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

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

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.







Job	Truss	Truss Type	Qty	Ply	Lot 53 H4	٦
400040	F4	His Circles			I40861168	
400213	EI	Hip Girder	1	1		
					Job Reference (optional)	

Wheeler Lumber,

Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:48 2020 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-eSZg3Ty6ElZXYHKw43zuyAJgo8BOohKv7j?yw8zUTrL

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-14=-20, 10-13=-20, 7-9=-20

Concentrated Loads (lb)

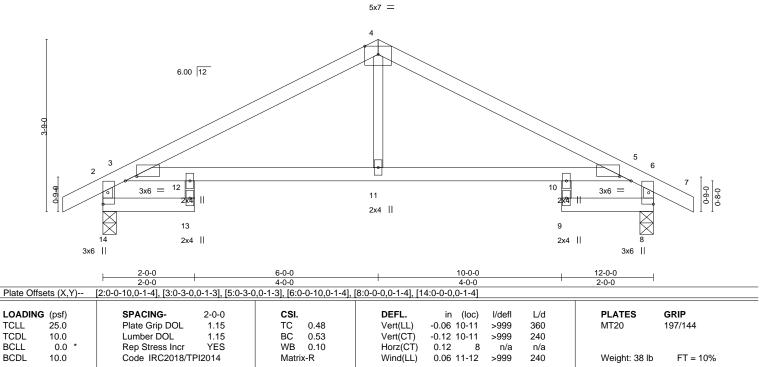
Vert: 4=-46(B) 5=-46(B) 12=-235(B) 11=-235(B) 15=-46(B) 16=-36(B)



Job Truss Truss Type Qty Lot 53 H4 140861169 400213 E2 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:49 2020 Page 1 Wheeler Lumber, Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6e72Gpzk?3hO9Rv6dmU7VOsrNYYSX992LNkVSazUTrK 10-0-0 12-0-0 -0-10-8 6-0-0 12-10-8 0-10-8 2-0-0 4-0-0 4-0-0 2-0-0 0-10-8

Scale = 1:25.1



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) 14=0-3-8, 8=0-3-8

Max Horz 14=-63(LC 6) Max Uplift 14=-88(LC 8), 8=-88(LC 9) Max Grav 14=599(LC 1), 8=599(LC 1)

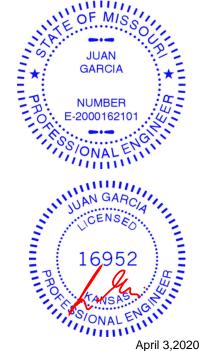
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-4=-796/83, 4-5=-796/98, 2-14=-604/114, 6-8=-604/108 TOP CHORD **BOT CHORD** 3-12=-21/658, 11-12=-21/658, 10-11=-21/658, 5-10=-21/658

WFBS 4-11=0/304

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) 14, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

10-0-0 oc bracing: 10-11



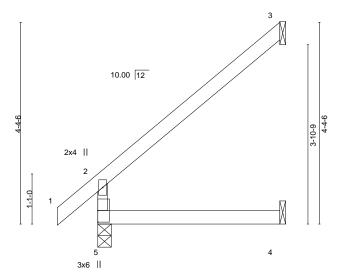
Job Truss Truss Type Qty Lot 53 H4 140861170 400213 J1 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:49 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6e72Gpzk?3hO9Rv6dmU7VOsvsYeRXAf2LNkVSazUTrK

-0-10-8 0-10-8 3-11-4

Scale = 1:24.9



3-11-4

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.02	4-5	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-5	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R					

PLATES GRIP 197/144 MT20

Weight: 12 lb FT = 10%

LUMBER-

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

BRACING-

Structural wood sheathing directly applied or 3-11-4 oc purlins, TOP CHORD

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

REACTIONS.

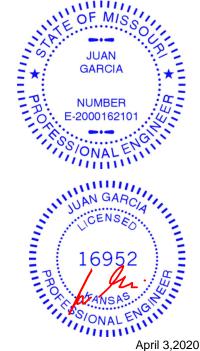
5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=145(LC 8)

Max Uplift 3=-109(LC 8), 4=-3(LC 8) Max Grav 5=247(LC 1), 3=133(LC 15), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (|t=|b|) 3=109.
- 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 53 H4 140861171 400213 J2 Jack-Open 11

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:57 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-tAc4yY3l6WhF7fWf5Se?p3BFmmNUPodEBdgwk6zUTrC

Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

-0-10-8 0-10-8 3-11-4 2-1-12 1-9-8

Scale = 1:24.9

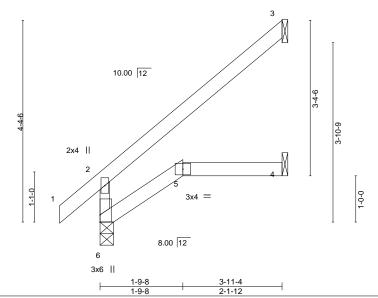


Plate Offsets (X,Y)	[6:0-1-14,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.02 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.05 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 13 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) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=144(LC 8)

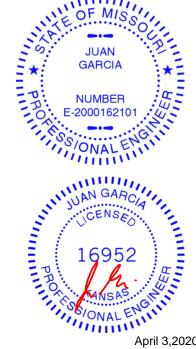
Max Uplift 3=-112(LC 8), 4=-4(LC 8)

Max Grav 6=247(LC 1), 3=135(LC 15), 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 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.





Job Truss Truss Type Qty Lot 53 H4 140861172 400213 J3 Jack-Closed

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:06 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6vfUrdAO?Hq_i2iN7rl6hz3rBOS?0sEZGXMuY5zUTr3

Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

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

3-11-4 2-11-4 0-10-8 1-0-0

Scale = 1:20.7

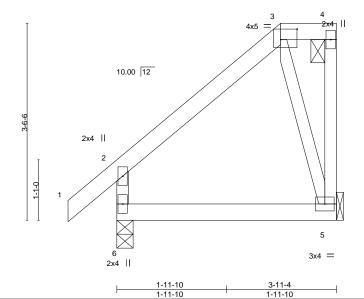


Plate Offs	Plate Offsets (X,Y) [3:0-3-8,0-2-4]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.01	5-6	>999	240	Weight: 17 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) 6=0-3-8, 5=Mechanical

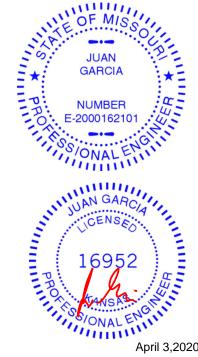
Max Horz 6=142(LC 5)

Max Uplift 6=-28(LC 8), 5=-70(LC 5) Max Grav 6=245(LC 1), 5=159(LC 1)

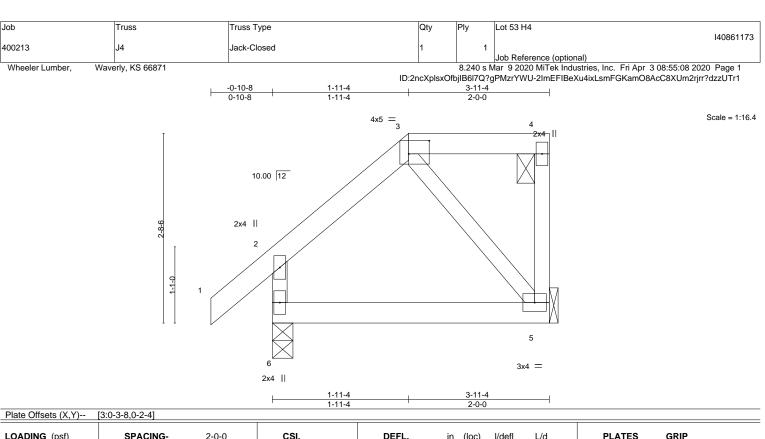
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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
- 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, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







LOADING	(psf)	SPACING-	2-0-0	CSI.		DEI	FL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Ver	t(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Ver	t(CT)	-0.02	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Hor	z(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S	Win	ıd(LL)	0.00	5-6	>999	240	Weight: 16 lb	FT = 1
				1									

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

(size) 6=0-3-8, 5=Mechanical

Max Horz 6=109(LC 5)

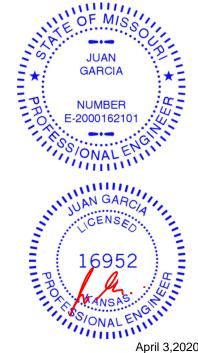
Max Uplift 6=-34(LC 8), 5=-55(LC 5) Max Grav 6=245(LC 1), 5=159(LC 1)

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

NOTES-

REACTIONS.

- 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) 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, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 10%

Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

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



Job Truss Truss Type Qty Lot 53 H4 140861174 400213 J5 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:09 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-XUKcTeCHICCZZVRyozrpJbhKXcTMDDM?yUaZ9QzUTr0 0-10-8 0-11-4 3-0-0 Scale: 1"=1" 4x5 =3 10.00 12 2x4 II 1-10-6 5 3x4 =2x4 1-11-10 1-11-10 1-11-10 Plate Offsets (X,Y)--[3:0-3-8,0-2-4] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.01 5-6 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) -0.02 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) -0.00 n/a n/a 5 Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-S Wind(LL) -0.00 >999 240 Weight: 15 lb FT = 10% 5-6 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 6=0-3-8, 5=Mechanical (size)

Max Horz 6=76(LC 7)

Max Uplift 6=-67(LC 8), 5=-56(LC 5) Max Grav 6=231(LC 1), 5=162(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
- 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, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 91 lb up at 0-11-4, and 68 lb down and 47 lb up at 2-0-0 on top chord, and 7 lb down and 11 lb up at 0-11-4, and 16 lb down at 2-0-0 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

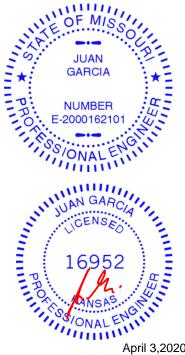
1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=25(F) 7=-11(F) 8=5(F) 9=-9(F)



Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

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

April 3,2020



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

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

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



Job Truss Truss Type Qty Lot 53 H4 140861175 400213 J6 Jack-Closed

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:09 2020 Page 1

Structural wood sheathing directly applied or 3-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-XUKcTeCHICCZZVRyozrpJbhL9cVaDD9?yUaZ9QzUTr0 3-11-4 -0-10-8 2-11-<u>4</u> 0-10-8 1-9-8 1-1-12 1-0-0

Scale = 1:20.7

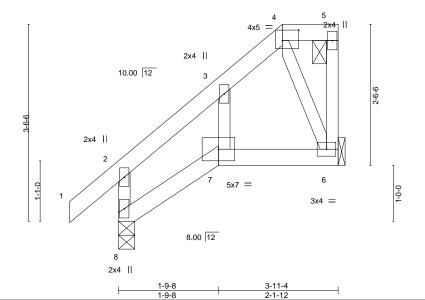


Plate Offsets (X,Y)	[4:0-3-8,0-2-4]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.10	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 7 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.06 WB 0.03	Veri(CT) -0.01 7 >999 240 Horz(CT) 0.01 6 n/a n/a	137/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 7 >999 240	Weight: 17 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) 8=0-3-8, 6=Mechanical

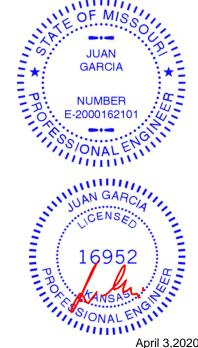
Max Horz 8=128(LC 5)

Max Uplift 8=-23(LC 8), 6=-71(LC 5) Max Grav 8=245(LC 1), 6=159(LC 1)

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

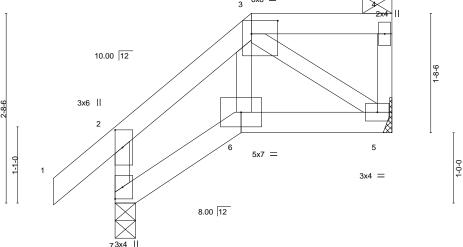
NOTES-

- 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
- 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) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 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.





Job Truss Truss Type Qty Lot 53 H4 140861176 400213 J7 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:10 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-?gu_g_Dv3WKPBf08MhM2rpEUn0pGyg88A8K6hszUTr? -0-10-8 0-10-8 1-11-4 2-0-0 6x6 = Scale = 1:16.4



1-9-8 1-9-8 2-1-12

BRACING-

TOP CHORD

BOT CHORD

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 0.24 Vert(LL) 0.02 6 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.02 6 >999 240 MT20 197/144 BCDL 0.0 * Rep Stress Incr NO WB 0.05 Horz(CT) 0.01 5 n/a n/a Weight: 16 lb FT = 10%	Plate Offsets (X,Y)	[2:0-3-0,0-1-4], [3:0-4-8,0-2-4]		
BCLL 0.0 * Rep Stress Incr NO WB 0.05 Horz(CT) 0.01 5 n/a n/a	· · · · · · · · · · · · · · · · · · ·		 (/	
			- (-)	Weight: 16 lb FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 7=94(LC 5)

Max Uplift 7=-94(LC 8), 5=-117(LC 5) Max Grav 7=306(LC 1), 5=215(LC 1)

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

TOP CHORD 2-7=-312/143, 2-3=-256/137

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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb)
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 190 lb up at 1-11-4 on top chord, and 67 lb down and 0 lb up at 1-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

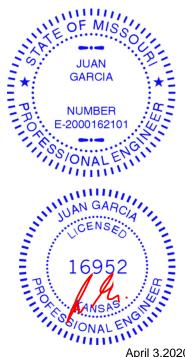
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 6=-34(B) 3=-84(B)



Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

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

April 3,2020



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

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

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



Job Truss Truss Type Qty Lot 53 H4 140861177 400213 J8 Jack-Open

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:11 2020 Page 1

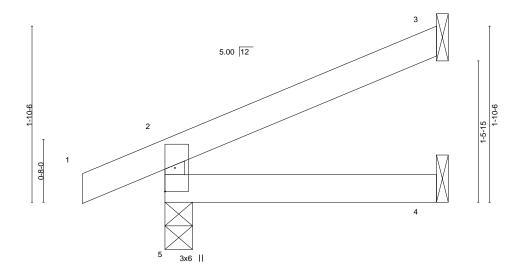
Structural wood sheathing directly applied or 2-10-8 oc purlins,

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

except end verticals.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-TtSNuKEXppSGopbLwOuHO0mhrPB_h75lPo3fElzUTr_ 2-10-8 2-10-8 -0-10-8 0-10-8

Scale = 1:12.2



2-10-8 2-10-8

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-0-8,0-1-4], [5:0-0-0,0-1	1-4]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	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=55(LC 8)

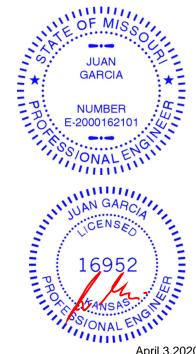
Max Uplift 5=-32(LC 8), 3=-44(LC 8)

Max Grav 5=203(LC 1), 3=81(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 Lot 53 H4 140861178 400213 J9 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:13 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-PFa7J0FnLRi_27lj1pwlTRs?QDsl91bbt6YmHBzUTqy 1-11-8 1-11-4 Scale: 1"=1' 0-4-5 4.47 12 2x4 || 1-5-6 5 2x4 || 1-10-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL Vert(LL) 0.00 >999 197/144 **TCLL** 25.0 1.15 TC 0.22 5 240 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-6-5, 3=Mechanical, 4=Mechanical

Max Horz 5=69(LC 7)

Max Uplift 5=-115(LC 12), 3=-22(LC 17), 4=-5(LC 16)

Code IRC2018/TPI2014

Max Grav 5=155(LC 1), 3=15(LC 4), 4=24(LC 3)

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

NOTES-

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

Matrix-R

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 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) 25 lb down and 9 lb up at -1-11-8, and 25 lb down and 9 lb up at -1-11-8 on top chord. The design/selection of such connection device(s) is the responsibility
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

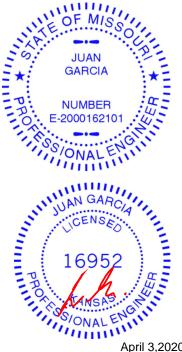
LOAD CASE(S) Standard

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

Vert: 1=-38(F=-19, B=-19)

Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-6=-33(F=19, B=19), 6=0(F=35, B=35)-to-2=-17(F=26, B=26), 2=-17(F=26, B=26)-to-3=-50(F=10, B=10), 5=-5(F=8, B=8)-to-4=-14(F=3, B=3)



Weight: 8 lb

Structural wood sheathing directly applied or 1-11-4 oc purlins,

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

except end verticals

FT = 10%

April 3,2020



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

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

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



Job Truss Truss Type Qty Lot 53 H4 140861179 400213 J10 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:50 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aqhQU8zMmMpFnaUIBU?M1bP2qyzxGdvCa1U2_0zUTrJ 4-10-8 3-3-8 3-3-8 1-7-0 Scale = 1:16.3 5.00 12 9-8-3 3x4 = 1-0-0 0-8-0 4.00 12 3x6 4-10-8 1-7-0 Plate Offsets (X,Y)--[1:0-0-8,0-1-4], [5:0-0-7,0-1-4] SPACING-CSI. DEFL. **PLATES** GRIP LOADING (psf) (loc) I/defI L/d Plate Grip DOL **TCLL** 25.0 1.15 TC 0.37 Vert(LL) -0.02 4-5 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.06 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 2 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% **BCDL** 10.0 Matrix-R 0.02 >999 240 Weight: 12 lb 4-5 LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins,

BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

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

Max Horz 5=74(LC 8)

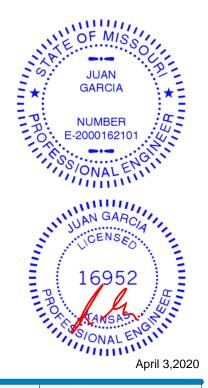
Max Uplift 5=-15(LC 8), 2=-78(LC 8)

Max Grav 5=212(LC 1), 2=154(LC 1), 3=90(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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 53 H4 140861180 400213 J11 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:51 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-20FphU_Xgx6Pk3VlBXbaoxAULKu?48LphDcWSzUTrl 4-2-2 1-11-8 4-2-2 Scale: 3/4"=1' 3 0-4-5 4.47 12 1-7-11 3x4 || 2-3-6 2 0-0-3x4 = 3.58 12 3x6 || 4-2-2 3-9-1 Plate Offsets (X,Y)--[2:0-2-0,0-1-4], [6:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.01 5-6 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.025-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.03 n/a n/a 3 Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-R Wind(LL) >999 240 Weight: 13 lb 0.02 5-6 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins,

BOT CHORD

except end verticals.

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

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 6=0-4-13, 3=Mechanical, 4=Mechanical

Max Horz 6=90(LC 7)

Max Uplift 6=-102(LC 4), 3=-73(LC 12) Max Grav 6=266(LC 1), 3=54(LC 1), 4=61(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 6=102.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 23 lb up at -1-11-8, and 60 lb down and 23 lb up at -1-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

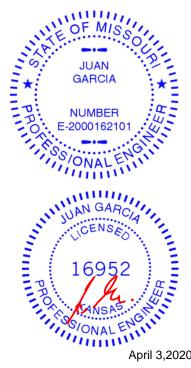
LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 1=-92(F=-46, B=-46) Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-2=-51(F=9, B=9), 2=-2(F=34, B=34)-to-3=-73(F=-2, B=-2), 6=-0(F=10, B=10)-to-5=-19(F=0, B=0), 5=-19(F=0, B=0)-to-4=-21(F=-0, B=-0)



April 3,2020



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

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



Job Truss Truss Type Qty Lot 53 H4 140861181 400213 J12 Jack-Closed Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:51 2020 Page 1

Wheeler Lumber, Waverly, KS 66871

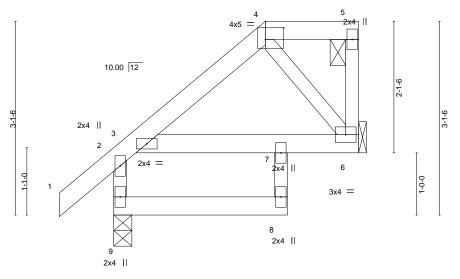
Structural wood sheathing directly applied or 3-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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

ID:GQ4OYcwcFBc2HwG5R3Y0anz37vs-20FphU__Xgx6Pk3VlBXbaoxGZLLm?4qLphDcWSzUTrl 2-9-8 0-4-4 3-11-4 -0-10-8 2-5-4 2-5-4 0-10-8 1-1-12

Scale = 1:18.5



2-9-8	3-11-4
2-9-8	1-1-12

BRACING-

TOP CHORD

BOT CHORD

	0010 (71, 17	[1.0 0 0,0 2 1]			
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 0.11	Vert(LL) -0.01 8 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 8-9 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.02 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 3-7 >999 240	Weight: 18 lb FT = 10%

LUMBER-

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

Plate Offsets (X Y)-- [4:0-3-8 0-2-4]

WEBS 2x3 SPF No.2

REACTIONS. (size) 9=0-3-8, 6=Mechanical

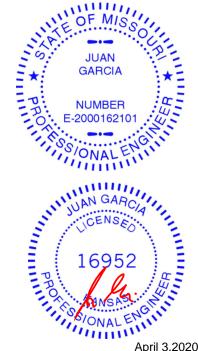
Max Horz 9=109(LC 5)

Max Uplift 9=-29(LC 8), 6=-60(LC 5) Max Grav 9=245(LC 1), 6=159(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
- 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) 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 Lot 53 H4 140861182 400213 J13 Jack-Closed Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:52 2020 Page 1

Waverly, KS 66871 Wheeler Lumber,

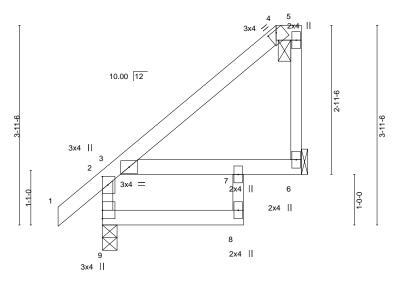
Structural wood sheathing directly applied or 3-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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

ID:GQ4OYcwcFBc2HwG5R3Y0anz37vs-WDpBuq?cl_3z1uehJv2q60UQqlhxkX8V1Lz93vzUTrH 3-5-4 3-11-4 0-6-0 0-6-0 0-10-8 2-11-4

Scale = 1:22.8



2-9-8

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-2-0,0-1-4], [4:0-2-0,0-0-10]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.01 3-7 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02 3-7 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.03 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 17 lb FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 9=0-3-8, 6=Mechanical (size)

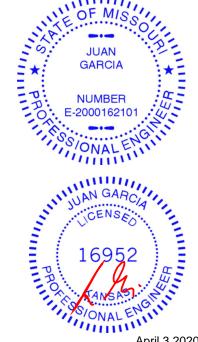
Max Horz 9=142(LC 5)

Max Uplift 9=-18(LC 8), 6=-75(LC 5) Max Grav 9=245(LC 1), 6=178(LC 15)

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

NOTES-

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





Job Truss Truss Type Qty Ply Lot 53 H4 140861183 400213 J14 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:53 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-?PMZ6A0E3HBqe2DtscZ3fD1al9_kT_OeG?iibLzUTrG

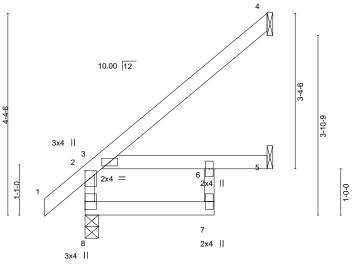
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

-0-10-8 0-10-8 3-11-4 2-9-8 1-1-12

Scale = 1:24.9



1	2-9-8	3-11-4
	2-9-8	1-1-12

Plate Off	sets (X,Y)	[2:0-2-0,0-1-4]										
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	0.20	Vert(LL)	-0.01	3-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.02	3-6	>999	240	Weight: 16 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) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=145(LC 8)

Max Uplift 4=-97(LC 8), 5=-5(LC 8)

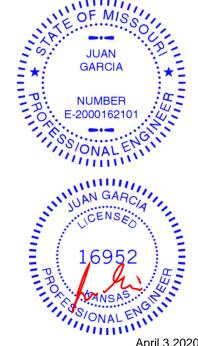
Max Grav 8=276(LC 1), 4=127(LC 15), 5=103(LC 3)

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

TOP CHORD 2-8=-254/0

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, 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.



April 3,2020



Job Truss Truss Type Qty Lot 53 H4 140861184 400213 J15 Jack-Closed Girder

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:54 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-TbwxJW1sqbJhGCo4QK4lCRZluZDlCRuoVfSG7nzUTrF

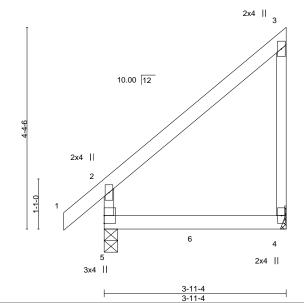
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

0-10-8 3-11-4

Scale = 1:24.9



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.07	4-5	>636	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/TP	12014	Matri	x-R	Wind(LL)	0.04	4-5	>999	240	Weight: 15 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=170(LC 5) Max Uplift 5=-58(LC 8), 4=-126(LC 5) Max Grav 5=390(LC 1), 4=318(LC 31)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=126.
- 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) 295 lb down and 95 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 6=-295(B)





Job Truss Truss Type Qty Lot 53 H4 140861185 400213 J16 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:55 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-xoUJXs1VbvRYuMMG_1bXke6uQzgKxuvxkJBpfEzUTrE 1-2-14 2-8-7 2-9-15 Scale = 1:17.1 3x4 || 4.24 12 3x4 = 5 0-8-0 2x4 || 2x4 || 3x6 || 5-6-6 2-9-15 Plate Offsets (X,Y)--[2:0-0-7,0-1-4], [8:0-0-0,0-1-4] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.03 6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.25 Vert(CT) -0.06 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.03 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) FT = 10% **BCDL** 10.0 Matrix-R >999 240 Weight: 19 lb 0.03 6 **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) 8=0-4-9, 5=Mechanical

Max Horz 8=103(LC 5)

Max Uplift 8=-98(LC 4), 5=-52(LC 8) Max Grav 8=345(LC 1), 5=227(LC 1)

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

TOP CHORD 2-8=-327/121

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 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) 69 lb down and 38 lb up at 2-9-8, and 69 lb down and 38 lb up at 2-9-8 on top chord, and 3 lb down and 0 lb up at 2-7-3, and 3 lb down and 0 lb up at 2-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 7=1(F=0, B=0)

GARCIA NUMBER E-2000162101 ONAL 16952

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

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

except end verticals.

April 3,2020



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

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

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



Job Truss Truss Type Qty Ply Lot 53 H4 140861186 J17 400213 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:55 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-xoUJXs1VbvRYuMMG_1bXke6wDzhpxuzxkJBpfEzUTrE -0-10-8 0-10-8 2-0-0 2-0-0 2-0-0 Scale = 1:16.6 6.00 12 0-6-0 7x4 5 2x4 || 3x6

> 2-0-0 4-0-0 2-0-0 2-0-0

> > BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-0-10,0-1-4], [8:0-0-0,	0-1-4]									
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	0.20	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-S	Wind(LL)	0.02	6	>999	240	Weight: 13 lb	FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 8=88(LC 8)

Max Uplift 8=-15(LC 8), 4=-61(LC 8)

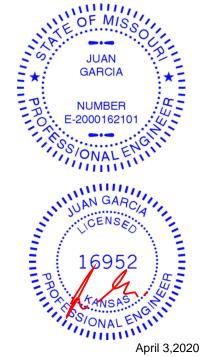
Max Grav 8=270(LC 1), 4=116(LC 1), 5=83(LC 3)

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

TOP CHORD 2-8=-258/41

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4.
- 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 Lot 53 H4 140861187 400213 J18 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:56 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-P_2ikC27MCZPVVxSYk6mHsf72M33gLO4yzxNCgzUTrD

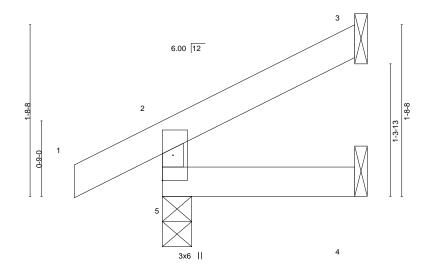
Structural wood sheathing directly applied or 1-10-15 oc purlins,

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

except end verticals.

-0-10-8 1-10-15 0-10-8 1-10-15

Scale = 1:11.4



1-10-15 1-10-15

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-10,0-1-4], [5:0-0-0,0-1-4]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.0	0 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.0	0 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	0 5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

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

Max Horz 5=47(LC 8)

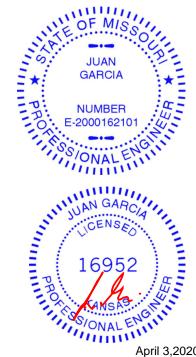
Max Uplift 5=-23(LC 8), 3=-33(LC 8)

Max Grav 5=168(LC 1), 3=46(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 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 Lot 53 H4 140861188 400213 J19 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:57 2020 Page 1 Waverly, KS 66871 Wheeler Lumber, ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-tAc4yY3l6WhF7fWf5Se?p3BB9mKAPixEBdgwk6zUTrC

3-4-13

5.00 12 12x12 / 8x8 = 10 -9-4 1-0-0 6 5 3x6 = 3x4 =

6-0-0

3-4-13

Plate Offsets (X	(,Y)	[2:0-9-0,0-8-4], [4:0-2-12,0-4-0], [6:0-2-8,0-1-8]	
			=

2x4

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	0.55	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-P	Wind(LL)	0.01	6	>999	240	Weight: 43 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

1-4: 2x10 SP DSS **BOT CHORD** 2x4 SPF No.2

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

2x4 SPF No.2 **OTHERS**

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

Max Horz 7=86(LC 5)

Max Uplift 7=-215(LC 8), 8=-245(LC 8) Max Grav 7=1234(LC 15), 8=1257(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-7=-1193/228, 2-3=-614/71, 4-5=-107/638, 3-4=-155/969, 1-2=-1206/179

BOT CHORD 5-6=-211/1197

1-6=-203/1280, 2-6=-431/122, 2-5=-1238/232, 3-8=-1274/248 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=215, 8=245.
- 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) 1080 lb down and 184 lb up at 2-0-12, and 1080 lb down and 184 lb up at 4-0-12 on top 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

GARCIA NUMBER -2000162101 16952 ANSAS CANONAL

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

except end verticals, and 2-0-0 oc purlins: 1-4.

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

April 3,2020

Scale = 1:20.3

Continued on page 2



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

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



Qty Job Truss Truss Type Ply Lot 53 H4 140861188 400213 J19 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:57 2020 Page 2

Wheeler Lumber,

Waverly, KS 66871

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-tAc4yY3l6WhF7fWf5Se?p3BB9mKAPixEBdgwk6zUTrC

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 2-3=-70, 5-7=-20, 1-2=-70 Concentrated Loads (lb) Vert: 9=-984(B) 10=-984(B)



Job Truss Truss Type Qty Lot 53 H4 140861189 400213 J20 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:58 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6i7Q?gPMzrYWU-LNAS9t4Ntqp6lp5rf99EMHkMFAhw8FtNQHQTGYzUTrB 6-0-0 0-10-8 6-0-0 Scale = 1:19.9 0-4-7 5.00 12 2-9-9 0-8-0 3x6 6-0-0 6-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defI TCLL 25.0 Plate Grip DOL Vert(LL) -0.05 >999 360 197/144 1.15 TC 0.53 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.12 4-5 >596 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.03 3 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.05

4-5

>999

except end verticals.

240

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

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

Weight: 16 lb

FT = 10%

LUMBER-

REACTIONS.

BCDL

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

10.0

WEBS 2x4 SPF No.2

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

Code IRC2018/TPI2014

Max Horz 5=107(LC 8)

Max Uplift 5=-46(LC 8), 3=-90(LC 8)

Max Grav 5=338(LC 1), 3=182(LC 1), 4=109(LC 3)

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

TOP CHORD 2-5=-295/100

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

Matrix-R

- 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 Lot 53 H4 140861190 400213 J21 Jack-Closed Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:54:59 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:GQ4OYcwcFBc2HwG5R3Y0anz37vs-pZkqND4?e7xzMzg1DtgTvUHd3a2itinXfx91p?zUTrA -0-10-8 1-5-4 1-5-4 2-9-8 0-10-8 1-4-4 1-1-12 $4x5 = \frac{}{3}$ 2x4 || Scale = 1:14.2 42X4 12 10.00 12 3x4 || 2 6 2x4 = 1-0-0 2x4 || 10 8 3x4 = 2x4 || 2-9-8 1-1-12 Plate Offsets (X,Y)--[2:0-2-0,0-1-4], [3:0-3-8,0-2-4] SPACING-LOADING (psf) CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.01 8 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.01 8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) -0.01 6 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

>999

8

240

except end verticals, and 2-0-0 oc purlins: 3-5.

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

Structural wood sheathing directly applied or 3-11-4 oc purlins,

LUMBER-

BCDL

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

4-8: 2x3 SPF No.2

WEBS 2x3 SPF No.2

10.0

REACTIONS. (size) 9=0-3-8, 6=Mechanical

Max Horz 9=76(LC 5)

Max Uplift 9=-100(LC 8), 6=-88(LC 5)

Max Grav 9=274(LC 1), 6=191(LC 1)

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

Code IRC2018/TPI2014

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

Matrix-S

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 45 lb down and 100 lb up at 1-5-4, and 79 lb down and 69 lb up at 2-0-0 on top chord, and 7 lb down and 15 lb up at 1-5-4, and 30 lb down at 2-0-0 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

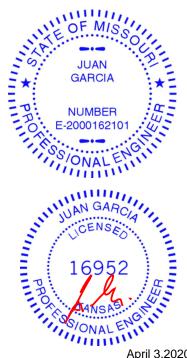
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 10=7(F) 11=-22(F) 12=-45(F)



FT = 10%

Weight: 15 lb

April 3,2020



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

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

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



Job Truss Truss Type Qty Lot 53 H4 140861191 400213 J22 Diagonal Hip Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:00 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-HIHCaZ5dPR4q_7FDnaBiRipn__MDc9NgtbvaLRzUTr9 5-5-3 1-11-8 5-5-3 Scale = 1:18.7 2x4 || 3 4.47 12 2x4 | 2 9 4 2x4 || 2x4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP (loc) I/defI L/d TCLL Plate Grip DOL Vert(LL) -0.03 >999 197/144 25.0 1.15 TC 0.20 4-5 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 BC 0.27 Vert(CT) -0.07 4-5 >895 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

0.02

4

4-5

n/a

>999

except end verticals.

n/a

240

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

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

Weight: 23 lb

FT = 10%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

WEBS 2x3 SPF No.2

> 5=0-6-5, 4=Mechanical (size) Max Horz 5=132(LC 5) Max Uplift 5=-143(LC 4), 4=-101(LC 5) Max Grav 5=418(LC 1), 4=253(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-5=-365/171

NOTES-

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

WB

Matrix-R

0.00

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

NO

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=143, 4=101,
- 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) 71 lb down and 40 lb up at 3-2-6, and 116 lb down and 95 lb up at 4-4-6 on top chord, and 12 lb down and 20 lb up at 3-2-6, and 29 lb down at 4-4-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

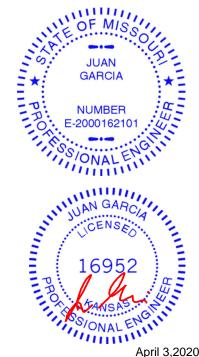
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-43(B) 8=1(F) 9=-14(B)





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

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

ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Lot 53 H4
400213	J23	Jack-Open	1	1	I40861192
400213	020	Jack Open	l'		Job Reference (optional)

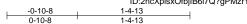
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:01 2020 Page 1 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-myrbnv6FAlChcHqQKlix_vM_cNm4Lcdp6Fe8ttzUTr8

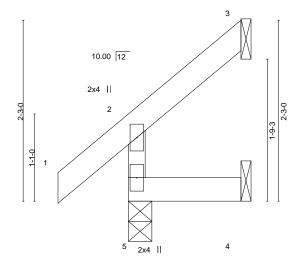
Structural wood sheathing directly applied or 1-4-13 oc purlins,

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

except end verticals.



Scale = 1:14.3



1-4-13 1-4-13

BRACING-

TOP CHORD

BOT CHORD

LOADIN	· · · ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 6 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=60(LC 8)

Max Uplift 3=-41(LC 8), 4=-13(LC 8)

Max Grav 5=152(LC 1), 3=34(LC 15), 4=24(LC 3)

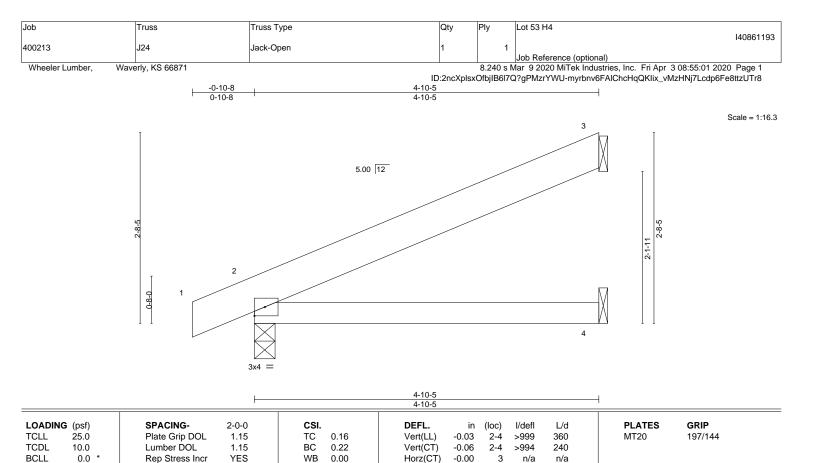
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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







Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.00

240

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

Structural wood sheathing directly applied or 4-10-5 oc purlins.

Weight: 17 lb

FT = 10%

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x6 SPF No.2

10.0

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

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

Code IRC2018/TPI2014

Max Horz 2=96(LC 8) Max Uplift 3=-87(LC 8), 2=-42(LC 8)

Max Grav 3=155(LC 1), 2=289(LC 1), 4=93(LC 3)

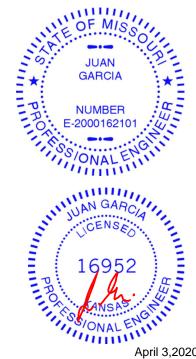
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

Matrix-P

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





Job Truss Truss Type Qty Lot 53 H4 140861194 400213 J25 DIAGONAL HIP GIRDER Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:02 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-E8Pz?F7ux2KYDQPcu?DAW7v86n2G4?hzLvOhPKzUTr7 1-11-8 3-9-1 Scale: 1/2"=1 4.47 12 3x4 = 9 3 4x5 = 12 6 1-1-0 15 1-0-0 5x7 = 3x4 = 3.58 12 2x4 | 8-0-8 Plate Offsets (X,Y)--[2:0-1-15,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) -0.02 5-6 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.05 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.27 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-P Wind(LL) 0.02 >999 240 Weight: 38 lb 6 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 7=0-4-13, 5=0-3-9 Max Horz 7=161(LC 5)

Max Uplift 7=-183(LC 4), 5=-235(LC 5) Max Grav 7=523(LC 1), 5=404(LC 1)

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

2-7=-487/228, 2-3=-720/280 TOP CHORD

BOT CHORD 5-6=-357/594

WFBS 2-6=-219/661. 3-5=-606/347

NOTES-

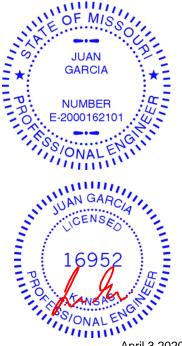
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=183, 5=235.
- 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 42 lb up at 3-2-6, 138 lb down and 94 lb up at 4-2-11, and 86 lb down and 73 lb up at 5-5-3, and 96 lb down and 104 lb up at 7-7-3 on top chord, and 14 lb down and 22 lb up at 3-2-6, 13 lb down at 4-2-11, and 20 lb down and 22 lb up at 5-5-3, and 34 lb down and 20 lb up at 7-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Vert: 9=-5(F) 11=-48(B) 12=1(B) 13=-5(F) 14=-1(B) 15=-20(B)



April 3,2020



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

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



Job Truss Truss Type Qty Lot 53 H4 140861195 400213 J26 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:03 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-iKzLCb8WiMSPra_oSjkP3KRJFBR_pW76ZZ7EymzUTr6

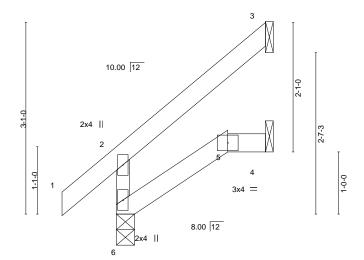
Structural wood sheathing directly applied or 2-4-13 oc purlins,

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

except end verticals.

2-4-13 0-10-8 2-4-13

Scale = 1:18.5



- 1	1-9-8	2-4-13
Г	1-9-8	0-7-5

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	0.13	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 9 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 6=91(LC 8)

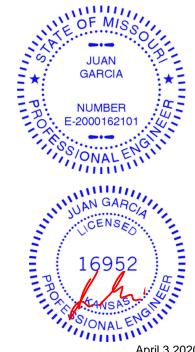
Max Uplift 3=-72(LC 8), 4=-9(LC 8)

Max Grav 6=184(LC 1), 3=77(LC 15), 4=43(LC 3)

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

NOTES-

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





Job Truss Truss Type Qty Lot 53 H4 140861196 400213 J27 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:04 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-AXXjQx88TgaGTkZ?0QGecY_VjboiYzMGoDtoUCzUTr5

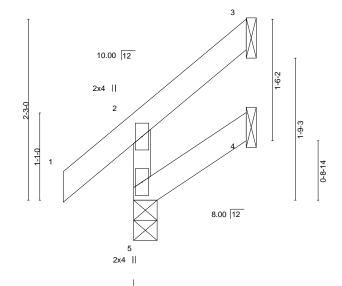
Structural wood sheathing directly applied or 1-4-13 oc purlins,

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

except end verticals.

1-4-13 0-10-8 1-4-13

Scale = 1:14.3



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ix-R						Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 5=59(LC 8)

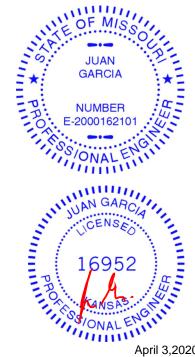
Max Uplift 3=-44(LC 8), 4=-15(LC 8)

Max Grav 5=152(LC 1), 3=35(LC 15), 4=26(LC 6)

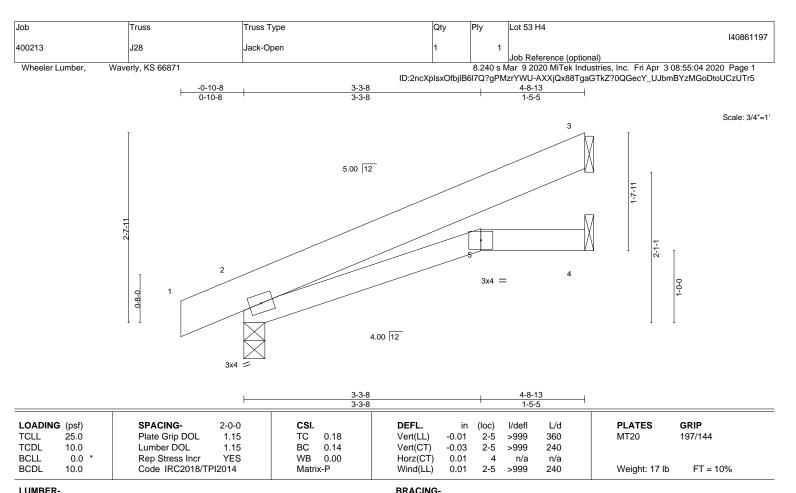
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

REACTIONS.

TOP CHORD 2x6 SPF No.2

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

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

Max Horz 2=94(LC 8)

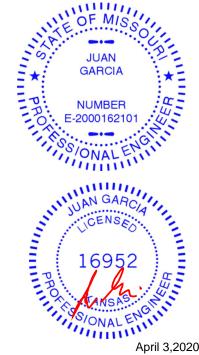
Max Uplift 3=-76(LC 8), 2=-41(LC 8)

Max Grav 3=152(LC 1), 2=283(LC 1), 4=75(LC 3)

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

NOTES-

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



Structural wood sheathing directly applied or 4-8-13 oc purlins.

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



Job Truss Truss Type Qty Lot 53 H4 140861198 400213 J29 Jack-Open Girder Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:05 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-ej55dH9mEzi74u7BZ7nt8lXbk?71HQcP1tcL0fzUTr4 . 3-0-11 1-11-8 3-0-11 Scale = 1:14.0 0-4-5 4.47 12 2x4 || 4 3x4 || 2-11-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP (loc) I/defI L/d Plate Grip DOL Vert(LL) -0.00 197/144 **TCLL** 25.0 1.15 TC 0.39 4-5 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) -0.00 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight: 10 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) 5=0-6-5, 3=Mechanical, 4=Mechanical Max Horz 5=81(LC 7)

Max Uplift 5=-96(LC 4), 3=-65(LC 12), 4=-7(LC 19) Max Grav 5=214(LC 1), 3=13(LC 9), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 16 lb up at -1-11-8, and 44 lb down and 16 lb up at -1-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

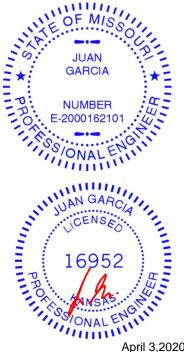
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-67(F=-33, B=-33)

Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-2=-51(F=9, B=9), 2=-2(F=34, B=34)-to-3=-54(F=8, B=8), 5=-0(F=10, B=10)-to-4=-15(F=2, B=2)



Structural wood sheathing directly applied or 3-0-11 oc purlins,

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

except end verticals.

April 3,2020



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

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

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



Job Truss Truss Type Qty Lot 53 H4 140861199 400213 J30 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:06 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-6vfUrdAO?Hq_i2iN7rl6hz3pSOSs0ssZGXMuY5zUTr3 -0-10-8 3-10-8 3-10-8 0-10-8 Scale = 1:14.3 5.00 12 1-10-15 3x6 || 3-10-8 3-10-8 Plate Offsets (X,Y)--[2:0-0-8,0-1-4], [5:0-0-0,0-1-4] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) -0.01 4-5 >999 360 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-R Wind(LL) >999 240 Weight: 11 lb 0.01 4-5

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=72(LC 8)

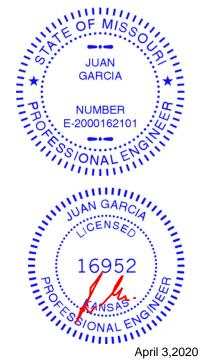
Max Uplift 5=-36(LC 8), 3=-60(LC 8)

Max Grav 5=244(LC 1), 3=115(LC 1), 4=70(LC 3)

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

NOTES-

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



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

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 53 H4 140861200 400213 J31 Jack-Open

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:07 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-a5Ds2yB0mbyrKCHahYpLDAcz4ooHlJ6iUB5S5XzUTr2

Structural wood sheathing directly applied or 3-4-7 oc purlins,

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

except end verticals.

3-4-7 0-10-8 1-9-8 1-6-15

Scale = 1:22.6

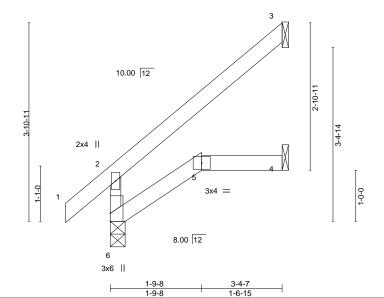


Plate Offsets	s (X,Y)	[6:0-1-14,Edge]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	5.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.01	5	>999	240	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TP	12014	Matri	x-R						Weight: 12 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) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=124(LC 8)

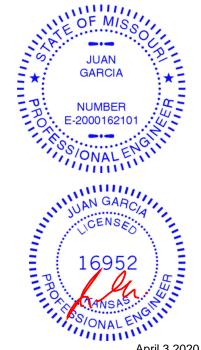
Max Uplift 3=-98(LC 8), 4=-6(LC 8)

Max Grav 6=223(LC 1), 3=114(LC 15), 4=62(LC 3)

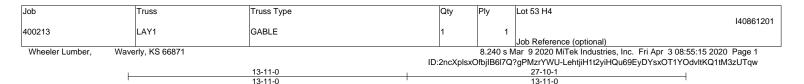
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

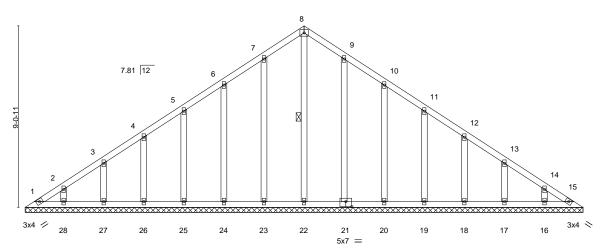
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom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







Scale = 1:57.5 4x5 =



27-10-Plate Offsets (X,Y)--[21:0-3-8,0-3-0] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.01 15 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-S Weight: 132 lb

27-10-1

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WEBS

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

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

1 Row at midpt 8-22

REACTIONS. All bearings 27-10-1.

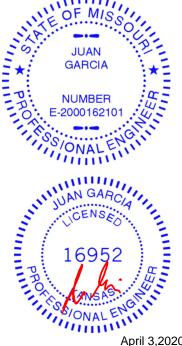
(lb) -Max Horz 1=-228(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17, 16

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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17, 16,
- 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.





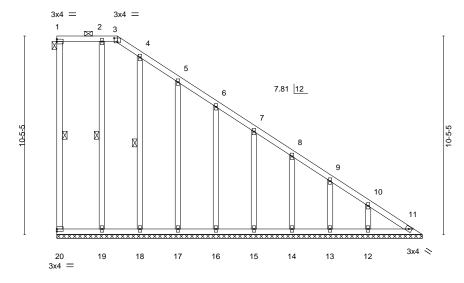
Job Truss Truss Type Qty Lot 53 H4 140861202 400213 LAY2 GABLE

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:16 2020 Page 1 ID:2ncXplsxOfbjlB6i7Q?gPMzrYWU-pqFFx1IgeM5ZvaTljxTS54USMQrJMMI1Z4nQuWzUTqv

19-2-12 16-0-9

Scale = 1:60.6



19-2-12

Plate Offs	ets (X,Y)	[3:0-2-0,0-2-3]			
LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.49	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144	
TCDL BCLL	10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.24 WB 0.17	Vert(CT) n/a - n/a 999 Horz(CT) 0.01 11 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 111 lb FT = 10%	

LUMBER-

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

TOP CHORD **BOT CHORD**

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 1-20, 2-19, 4-18

REACTIONS. All bearings 19-2-12.

Max Horz 20=-404(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

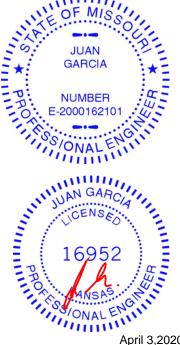
7-8=-256/164, 8-9=-291/187, 9-10=-326/207, 10-11=-369/240 TOP CHORD

19-20=-199/319, 18-19=-199/319, 17-18=-199/319, 16-17=-199/319, 15-16=-199/319, **BOT CHORD**

14-15=-199/319, 13-14=-199/319, 12-13=-199/319, 11-12=-199/319

NOTES-

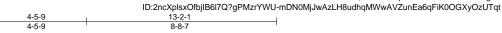
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12.
- 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.



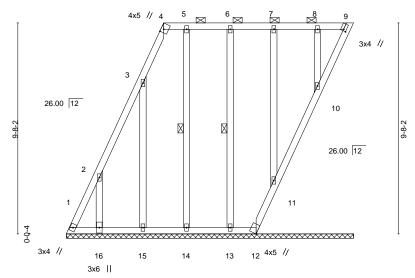


Job Truss Truss Type Qty Lot 53 H4 140861203 400213 LAY3 GABLE

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:18 2020 Page 1



Scale = 1:52.8



8-8-7 13-2-1

Plate Offsets (X,Y) [4:0-1-13,Eage], [9:0-0-13,0-1-8]												
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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 87 lb	FT = 10%

LUMBER-

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

OTHERS 2x4 SPF No.2 **BRACING-**

TOP CHORD

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

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

5-14, 6-13 **WEBS** 1 Row at midpt

REACTIONS. All bearings 13-1-15.

(lb) -Max Horz 1=383(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 12, 14, 13, 11, 10 except 1=-296(LC 6), 9=-123(LC 8), 16=-409(LC

8), 15=-318(LC 8)

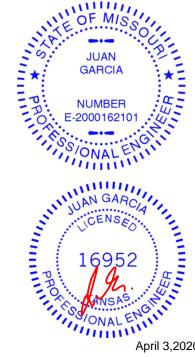
Max Grav All reactions 250 lb or less at joint(s) 9, 12, 14, 13, 11, 10 except 1=623(LC 8), 16=320(LC 15),

15=279(LC 15)

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

TOP CHORD 1-2=-687/364, 2-3=-294/161 **WEBS** 2-16=-277/418, 3-15=-240/344

- 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.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 14, 13, 11, 10 except (jt=lb) 1=296, 9=123, 16=409, 15=318.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Lot 53 H4 140861204 400213 LAY4 GABLE Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:19 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-EPxOZ3KYxHT8m2CtO419ji63bevyZkATF2?4VrzUTqs 3-3-13 3-3-13 12-0-5 8-8-7 Scale = 1:37.5 4x5 // 3 \boxtimes \bowtie

26.00 12 26.00 12 0-0-4 11 3x4 14 12 11 10 4x5 // 13

12-0-5

Plate Off	sets (X,Y)	[3:0-1-13,Eage], [8:0-0-13	3,0-1-8]										
LOADING	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.11	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144	
		· ·		1		- ' '	II/a	-	II/a		IVI 1 2 U	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-S						Weight: 68 lb	FT = 10%	

LUMBER-

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

TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 3-8.

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

REACTIONS. All bearings 12-0-3.

(lb) -Max Horz 1=282(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 13, 12, 11, 9 except 1=-129(LC 6), 14=-414(LC 8) Max Grav All reactions 250 lb or less at joint(s) 8, 10, 13, 12, 11, 9 except 1=337(LC 8), 14=347(LC 15)

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

TOP CHORD 1-2=-376/208 WEBS 2-14=-281/411

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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 13, 12, 11, 9 except (jt=lb) 1=129, 14=414.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 Lot 53 H4 140861205 GABLE 400213 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:20 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-icVmnPLAiab?NBn3ynYOFweFE2FeIC?cUile1HzUTqr 3-5-10 3-5-10 3-5-10 Scale = 1:21.6 4x5 = 4 10.00 12 2x4 || 2x4 || 1, 2x4 = 2x4 = 2x4 || 2x4 || 2x4 || 6-11-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.05 n/a n/a MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

999

n/a

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

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

Weight: 20 lb

FT = 10%

n/a

n/a

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

REACTIONS. All bearings 6-11-3.

Max Horz 1=-70(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 6, 8 except 10=-101(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

1.15

YES

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.

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

ВС

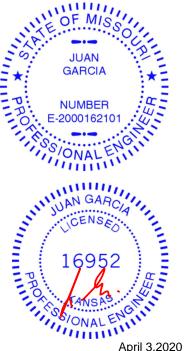
WB

Matrix-P

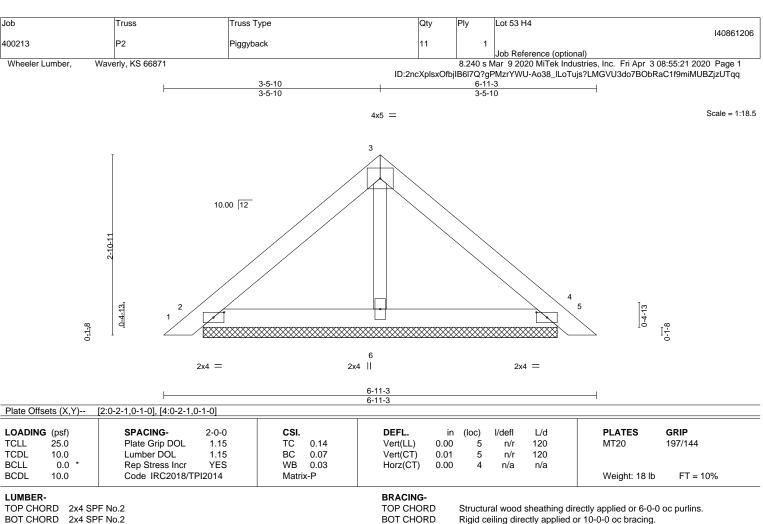
0.03

0.02

- 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) Gable requires continuous bottom chord bearing.
- 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) 1, 7, 6, 8 except (jt=lb) 10=101.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







OTHERS 2x3 SPF No.2

(size) 2=5-8-1, 4=5-8-1, 6=5-8-1

Max Horz 2=70(LC 7)

Max Uplift 2=-43(LC 8), 4=-51(LC 9)

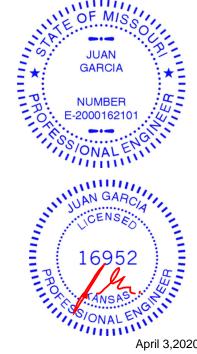
Max Grav 2=184(LC 1), 4=184(LC 1), 6=198(LC 1)

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

NOTES-

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) 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) 2, 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Lot 53 H4 140861207 Flat R1 400213 Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:21 2020 Page 1

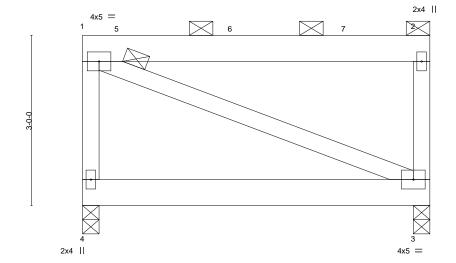
Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Ao38_ILoTujs?LMGVU3do7BF7Ra21fTmiMUBZjzUTgq

2-0-0 oc purlins: 1-2, except end verticals.

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

6-1-8

Scale = 1:20.3



LOADING TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.75	DEFL. Vert(LL)	in -0.01	(loc) 3-4	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.02	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	4	****	240	Weight: 74 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

4=0-3-8, 3=0-3-8 (size) Max Horz 4=-97(LC 4) Max Uplift 4=-361(LC 4), 3=-284(LC 5) Max Grav 4=2214(LC 1), 3=1895(LC 2)

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

TOP CHORD 1-4=-2155/396, 2-3=-1837/298

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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 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) Provide adequate drainage to prevent water ponding.
- 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) 4=361, 3=284.
- 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) 1181 lb down and 200 lb up at 0-9-0, and 1266 lb down and 188 lb up at 2-9-0, and 1265 lb down and 172 lb up at 4-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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



April 3,2020

Continued on page 2



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

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



Job Truss Truss Type Qty Ply Lot 53 H4 140861207 Flat R1 400213

Wheeler Lumber,

Waverly, KS 66871

Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:21 2020 Page 2
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Ao38_ILoTujs?LMGVU3do7BF7Ra21fTmiMUBZjzUTqq

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 5=-1181 6=-1167 7=-1167



Valley 400213 V1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:22 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-e_dXB5MQECridVxS3CasKLkVyrugm5Wvx0El69zUTqp 6-0-12 6-0-12 Scale = 1:20.7 5x7 = 2 6.00 12 4 3x4 / 3x4 > 2x4 Ш 12-1-8 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 0.42 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.25 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 30 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

Qty

Lot 53 H4

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

BOT CHORD **OTHERS** REACTIONS.

Job

1=12-0-8, 3=12-0-8, 4=12-0-8 (size)

Max Horz 1=-48(LC 13)

2x4 SPF No.2

2x3 SPF No.2

Truss

Truss Type

Max Uplift 1=-47(LC 8), 3=-56(LC 9), 4=-29(LC 8)

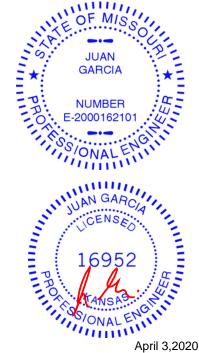
Max Grav 1=230(LC 21), 3=230(LC 22), 4=519(LC 1)

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

WEBS 2-4=-354/93

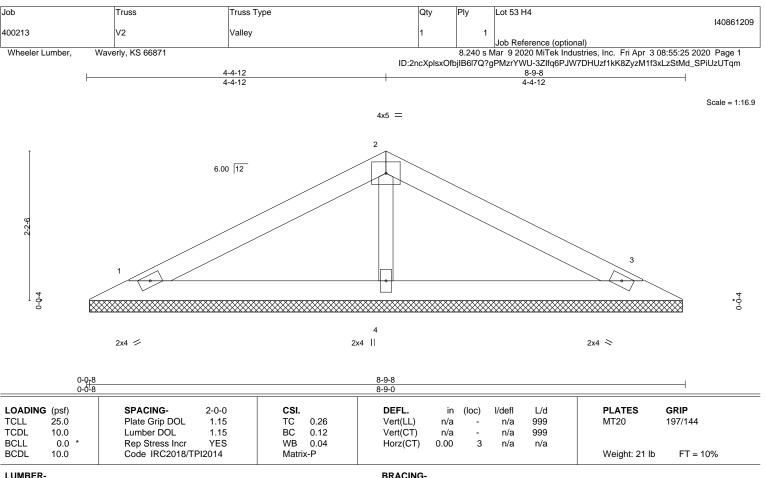
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (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) 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.



140861208





TOP CHORD

BOT CHORD

TOP CHORD

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

BOT CHORD OTHERS 2x3 SPF No.2

REACTIONS. 1=8-8-8, 3=8-8-8, 4=8-8-8 (size)

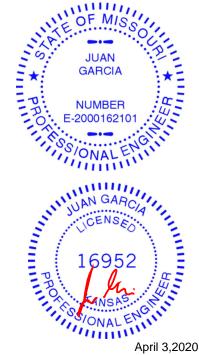
Max Horz 1=33(LC 12)

Max Uplift 1=-40(LC 8), 3=-46(LC 9), 4=-4(LC 8) Max Grav 1=177(LC 1), 3=177(LC 1), 4=324(LC 1)

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

NOTES-

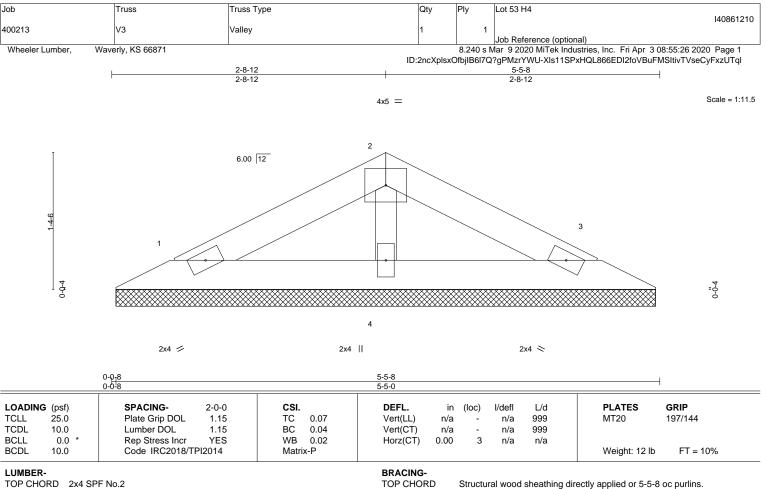
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber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





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.

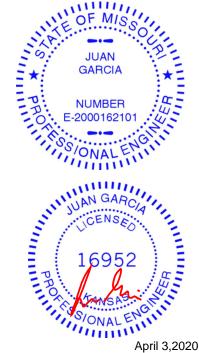
1=5-4-8, 3=5-4-8, 4=5-4-8 (size)

Max Horz 1=-19(LC 13)

Max Uplift 1=-23(LC 8), 3=-26(LC 9), 4=-2(LC 8) Max Grav 1=99(LC 1), 3=99(LC 1), 4=180(LC 1)

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

- 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.





Job Truss Truss Type Qty Lot 53 H4 140861211 400213 Valley V4 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:27 2020 Page 1 Wheeler Lumber, Waverly, KS 66871 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-?yQQFoQZ2kT?jGpQslA11ORJYsazRM3e5lxWnNzUTqk 6-2-8 Scale = 1:16.4 2x4 || 2 5.00 12 0-0-4 2x4 / 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.56 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.30 Vert(CT) n/a 999 n/a

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

3

n/a

except end verticals.

n/a

Structural wood sheathing directly applied or 6-2-8 oc purlins,

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

Weight: 15 lb

FT = 10%

LUMBER-

BCLL

BCDL

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

WEBS 2x3 SPF No.2

0.0

10.0

REACTIONS. 1=6-1-14, 3=6-1-14 (size)

Max Horz 1=98(LC 5) Max Uplift 1=-35(LC 8), 3=-55(LC 8) Max Grav 1=241(LC 1), 3=241(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

NOTES-

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

WB

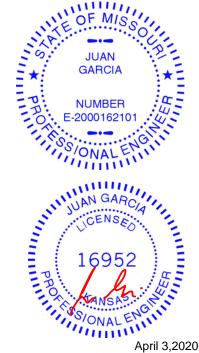
Matrix-P

0.00

- 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.

YES

- 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.





Job Truss Truss Type Qty Lot 53 H4 140861212 Valley 400213 V5

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:27 2020 Page 1

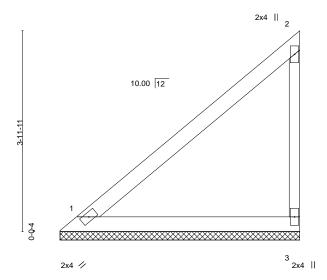
Structural wood sheathing directly applied or 4-9-4 oc purlins,

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

except end verticals.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-?yQQFoQZ2kT?jGpQslA11ORMmscpRM3e5lxWnNzUTqk 4-9-4

Scale = 1:22.8



LOADING (psi	,	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.	0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	0	Code IRC2018/TF	12014	Matri	x-P						Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

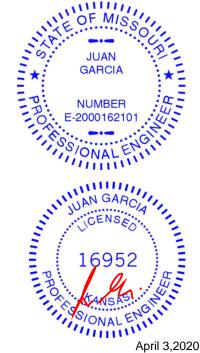
REACTIONS.

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

1=4-8-15, 3=4-8-15 (size) Max Horz 1=142(LC 5) Max Uplift 1=-5(LC 8), 3=-67(LC 8) Max Grav 1=192(LC 1), 3=216(LC 15)

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) 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.





Job Truss Truss Type Qty Lot 53 H4 140861213 Valley 400213 V6

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:28 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-T8_oS8RBp2bsLQOcQThGaczZsGzHApJoJyh3JpzUTqj

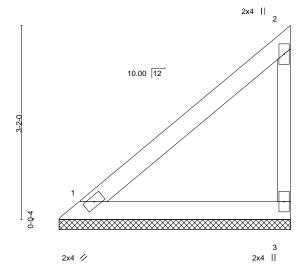
Structural wood sheathing directly applied or 3-9-10 oc purlins,

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

except end verticals.

3-9-10

Scale = 1:18.8



LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL 1	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	ВС	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr Y	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matri	x-P	, ,					Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

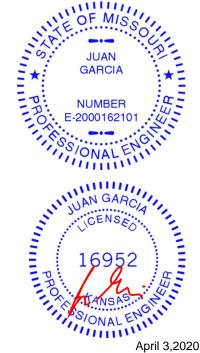
REACTIONS.

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

1=3-9-5, 3=3-9-5 (size) Max Horz 1=109(LC 5) Max Uplift 1=-4(LC 8), 3=-52(LC 8) Max Grav 1=148(LC 1), 3=167(LC 15)

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) 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.





Job Truss Truss Type Qty Lot 53 H4 140861214 400213 Valley V7

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:29 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-xKYAfUSpaLjjzazozACV6pWmJgKPvGYxYcQcrFzUTqi

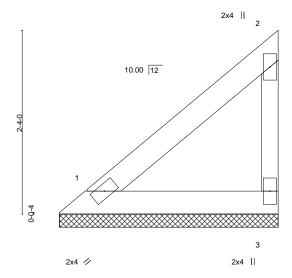
Structural wood sheathing directly applied or 2-9-10 oc purlins,

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

except end verticals.

2-9-10

Scale = 1:14.6



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.09 BC 0.05	DEFL. in Vert(LL) n/a Vert(CT) n/a	(loc) l/ - -	l/defl L/d n/a 999 n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00	3	n/a n/a	Weight: 8 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

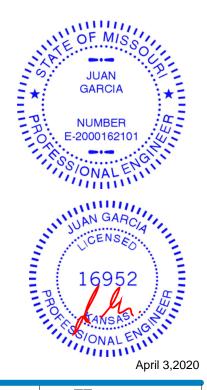
REACTIONS.

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

1=2-9-5, 3=2-9-5 (size) Max Horz 1=76(LC 5) Max Uplift 1=-3(LC 8), 3=-36(LC 8) Max Grav 1=103(LC 1), 3=116(LC 15)

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) 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.





Job Truss Truss Type Qty Lot 53 H4 140861215 400213 Valley V8

Wheeler Lumber, Waverly, KS 66871 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:29 2020 Page 1

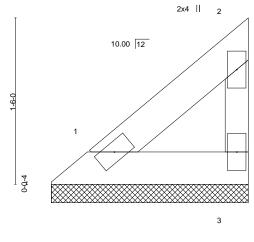
Structural wood sheathing directly applied or 1-9-10 oc purlins,

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

except end verticals.

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-xKYAfUSpaLjjzazozACV6pWnKgKxvGYxYcQcrFzUTqi 1-9-10

Scale = 1:10.4



2x4 // 2x4 ||

LOADING (p	osf) 5.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.03	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
	0.0 * 0.0	Rep Stress Incr Code IRC2018/TF	YES Pl2014	WB Matri	0.00 x-P	Horz(CT)	-0.00	3	n/a	n/a	Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

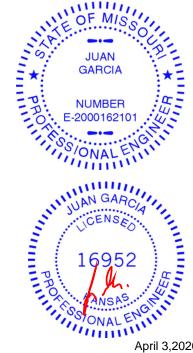
2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 **WEBS** 2x3 SPF No.2

1=1-9-5, 3=1-9-5 (size) Max Horz 1=43(LC 5) Max Uplift 1=-1(LC 8), 3=-20(LC 8) Max Grav 1=58(LC 1), 3=66(LC 15)

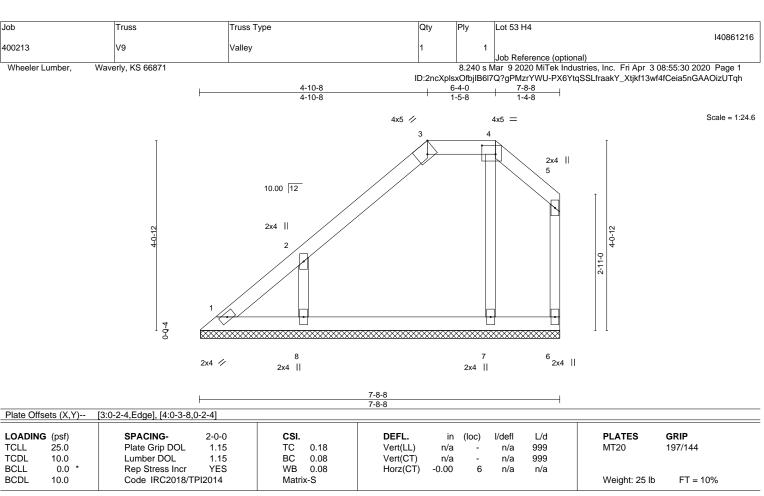
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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







LUMBER-

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

BRACING-

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

REACTIONS. All bearings 7-8-3.

Max Horz 1=134(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 8=-134(LC 8)

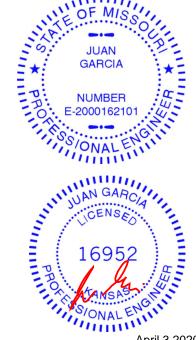
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=270(LC 1), 8=354(LC 15)

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

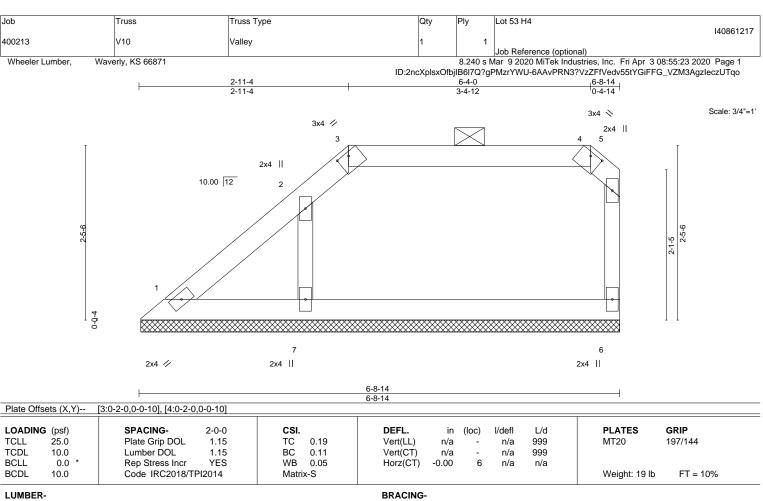
WEBS 2-8=-285/176

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, 6, 7 except (jt=lb) 8=134.
- 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.







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

TOP CHORD **BOT CHORD**

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

REACTIONS. (size) 1=6-8-9, 6=6-8-9, 7=6-8-9

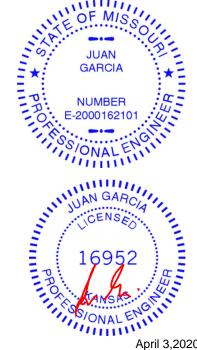
Max Horz 1=82(LC 5)

Max Uplift 1=-8(LC 4), 6=-31(LC 4), 7=-63(LC 5) Max Grav 1=76(LC 16), 6=182(LC 22), 7=321(LC 21)

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.
- 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) 1, 6, 7.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Lot 53 H4 140861218 Valley 400213 V11

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:24 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aNkHcmOhmp5Qsp4rBddKPmpvnfdLE0JCOKjrA2zUTqn

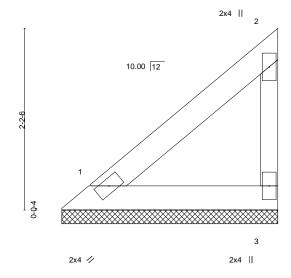
Structural wood sheathing directly applied or 2-7-10 oc purlins,

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

except end verticals.

2-7-10 2-7-10

Scale = 1:13.9



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.08	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.04 WB 0.00	Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	1017144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 8 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

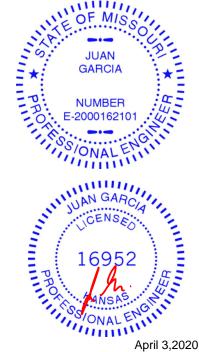
REACTIONS.

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

1=2-7-6, 3=2-7-6 (size) Max Horz 1=71(LC 5) Max Uplift 1=-2(LC 8), 3=-33(LC 8) Max Grav 1=96(LC 1), 3=108(LC 15)

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) 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.





Job Truss Truss Type Lot 53 H4 140861219 Valley 400213 V12

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 08:55:24 2020 Page 1 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-aNkHcmOhmp5Qsp4rBddKPmpwifdqE0JCOKjrA2zUTqn

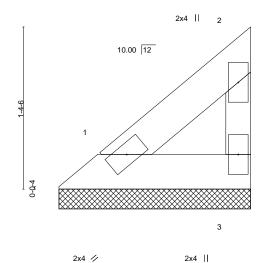
Structural wood sheathing directly applied or 1-7-10 oc purlins,

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

except end verticals.

1-7-10

Scale = 1:9.7



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-P	, ,					Weight: 4 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

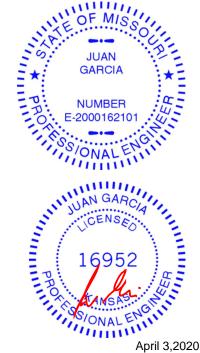
2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 **BOT CHORD WEBS** 2x3 SPF No.2

REACTIONS. 1=1-7-6, 3=1-7-6 (size)

Max Horz 1=38(LC 5) Max Uplift 1=-1(LC 8), 3=-18(LC 8) Max Grav 1=51(LC 1), 3=57(LC 15)

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) 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.



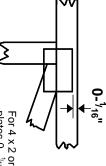


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



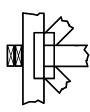
to slots. Second dimension is width measured perpendicular the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

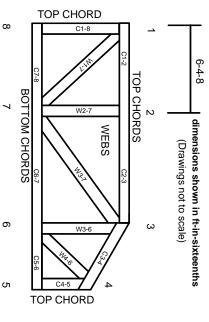
Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate

ANSI/TPI1:

National Design Specification for Metal Plate Connected Wood Truss Construction.

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

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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.
- 7. 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.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.