

RE: W0 114 Lot 114 W0

Site Information:

Customer: Project Name: W0 114 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 111 individual, dated Truss Design Drawings and 0 Additional Drawings.

No	Sool#	Truss Name	Data	No	Seal#	Truss Name	Dete
No.	Seal#		Date	No.			Date
1	142521635	A1	12/4/2020	21	142521655	C10	12/4/2020
2	142521636	A2	12/4/2020	22	142521656	D1	12/4/2020
3	142521637	A3	12/4/2020	23	142521657	D2	12/4/2020
4	142521638	A4	12/4/2020	24	142521658	D3	12/4/2020
5	142521639	A5	12/4/2020	25	142521659	D4	12/4/2020
6	142521640	A6	12/4/2020	26	142521660	E1	12/4/2020
7	I42521641	B1	12/4/2020	27	142521661	E2	12/4/2020
8	I42521642	B2	12/4/2020	28	142521662	E3	12/4/2020
9	I42521643	B3	12/4/2020	29	142521663	E4	12/4/2020
10	142521644	B4	12/4/2020	30	142521664	E5	12/4/2020
11	I42521645	B5	12/4/2020	31	142521665	G1	12/4/2020
12	142521646	C1	12/4/2020	32	142521666	G2	12/4/2020
13	142521647	C2	12/4/2020	33	142521667	G3	12/4/2020
14	142521648	C3	12/4/2020	34	142521668	G4	12/4/2020
15	I42521649	C4	12/4/2020	35	142521669	G5	12/4/2020
16	142521650	C5	12/4/2020	36	142521670	G6	12/4/2020
17	I42521651	C6	12/4/2020	37	142521671	G7	12/4/2020
18	142521652	C7	12/4/2020	38	142521672	G8	12/4/2020
19	142521653	C8	12/4/2020	39	142521673	G9	12/4/2020
20	l42521654	C9	12/4/2020	40	l42521674	G10	12/4/2020

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: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021. 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.



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



RE: W0 114 - Lot 114 W0

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

Site Information:

Lot/Block: Address: City, County:

83

84

142521717

I42521718

J39

J40

Project Customer: Project Name: W0 114

Subdivision:

State:

NIa	Cool#		Dete	Na	Caal#		Data
No. 41	. Seal# I42521675	Truss Name H1	Date 12/4/2020	No. 85	Seal# I42521719	Truss Name J41	Date 12/4/2020
		H1 H2			142521719		
42 43	l42521676 l42521677	H3	12/4/2020 12/4/2020	86 87	142521720 142521721	J42 J43	12/4/2020 12/4/2020
43 44			12/4/2020				
44 45	142521678	H4 J1		88	142521722	J44 J45	12/4/2020
45 46	l42521679 l42521680	J1 J2	12/4/2020 12/4/2020	89 90	l42521723 l42521724	J45 J46	12/4/2020 12/4/2020
47 48	142521681	J3 J4	12/4/2020 12/4/2020	91 92	I42521725	J47 J48	12/4/2020
	142521682	J4 J5			142521726		12/4/2020
49	142521683		12/4/2020	93	142521727	LAY1	12/4/2020
50	142521684	J6	12/4/2020	94	142521728	LAY2	12/4/2020
51	142521685	J7	12/4/2020	95	142521729	LAY3	12/4/2020
52	142521686	J8	12/4/2020	96 07	142521730	LAY4	12/4/2020
53	142521687	J9	12/4/2020	97	142521731	LAY5	12/4/2020
54	142521688	J10	12/4/2020	98	142521732	LAY6	12/4/2020
55	142521689	J11	12/4/2020	99	142521733	LAY7	12/4/2020
56	142521690	J12	12/4/2020	100	142521734	LAY8	12/4/2020
57	142521691	J13	12/4/2020	101	142521735	LAY9	12/4/2020
58	142521692	J14	12/4/2020	102	142521736	R1	12/4/2020
59	142521693	J15	12/4/2020	103	142521737	V1	12/4/2020
60	142521694	J16	12/4/2020	104	142521738	V2	12/4/2020
61	142521695	J17	12/4/2020	105	142521739	V3	12/4/2020
62	142521696	J18	12/4/2020	106	142521740	V4	12/4/2020
63	142521697	J19	12/4/2020	107	142521741	V5	12/4/2020
64	142521698	J20	12/4/2020	108	142521742	V6	12/4/2020
65	142521699	J21	12/4/2020	109	142521743	V7	12/4/2020
66	142521700	J22	12/4/2020	110	142521744	V8	12/4/2020
67	142521701	J23	12/4/2020	111	142521745	V9	12/4/2020
68	142521702	J24	12/4/2020				
69	142521703	J25	12/4/2020				
70	142521704	J26	12/4/2020				
71	142521705	J27	12/4/2020				
72	142521706	J28	12/4/2020				
73	142521707	J29	12/4/2020				
74	142521708	J30	12/4/2020				
75	142521709	J31	12/4/2020				
76	142521710	J32	12/4/2020				
77	142521711	J33	12/4/2020				
78	142521712	J34	12/4/2020				
79	142521713	J35	12/4/2020				
80	142521714	J36	12/4/2020				
81	I42521715	J37	12/4/2020				
82	I42521716	J38	12/4/2020				
00	140504747	100	40/4/0000				

12/4/2020

12/4/2020

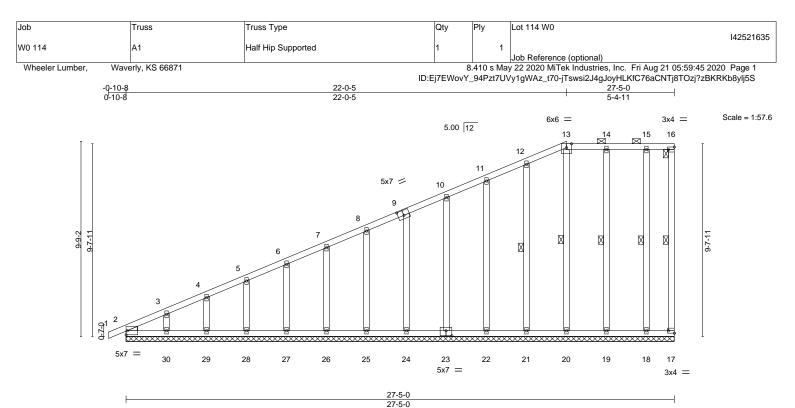


Plate Offsets (X,Y)-- [9:0-3-8,0-3-0], [16:Edge,0-1-8], [17:Edge,0-1-8], [23:0-3-8,0-3-0]

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.40	DEFL. i Vert(LL) -0.0	n (loc) l/defl L/d 0 1 n/r 120	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.0		IVI I 20	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) -0.0			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 160 lb	FT = 10%
LUMBER-			BRACING-			
	PF No.2 PF No.2		TOP CHORD	Structural wood sheathing of except end verticals, and 2-		
	PF No.2		BOT CHORD	Rigid ceiling directly applied		,
OTHERS 2x4 SF	PF No.2			6-0-0 oc bracing: 23-24.		
WEDGE			WEBS	1 Row at midpt	16-17, 13-20, 12-21, 14-	19, 15-18

Left: 2x3 SPF No.2

REACTIONS. All bearings 27-5-0.

- (lb) Max Horz 2=410(LC 5)
 - Max Uplift All uplift 100 lb or less at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18
 - Max Grav All reactions 250 lb or less at joint(s) 17, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18

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

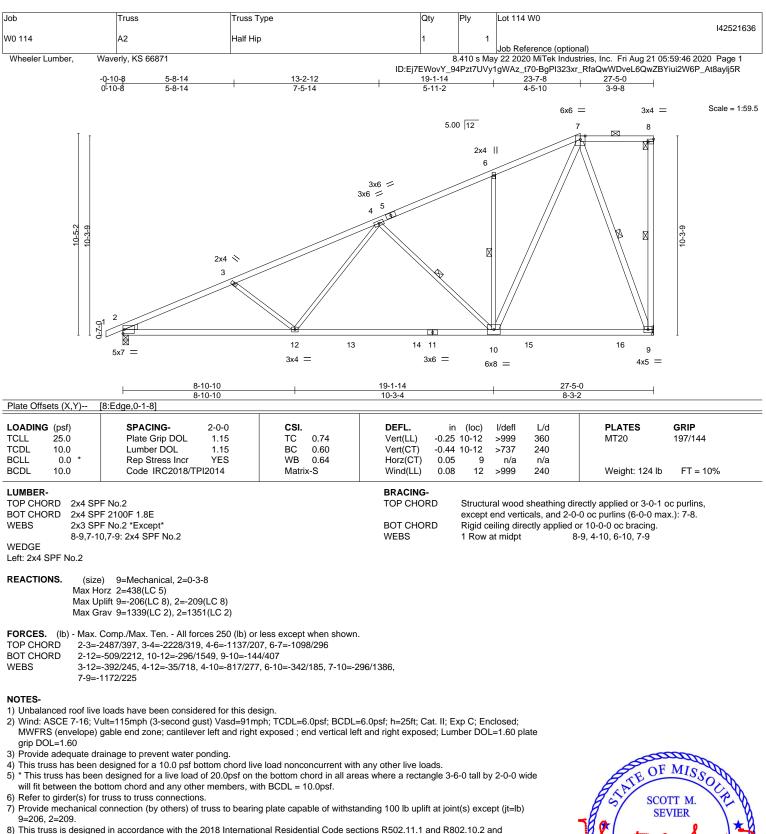
TOP CHORD 2-3=-364/37, 3-4=-315/30, 4-5=-291/28, 5-6=-266/25

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





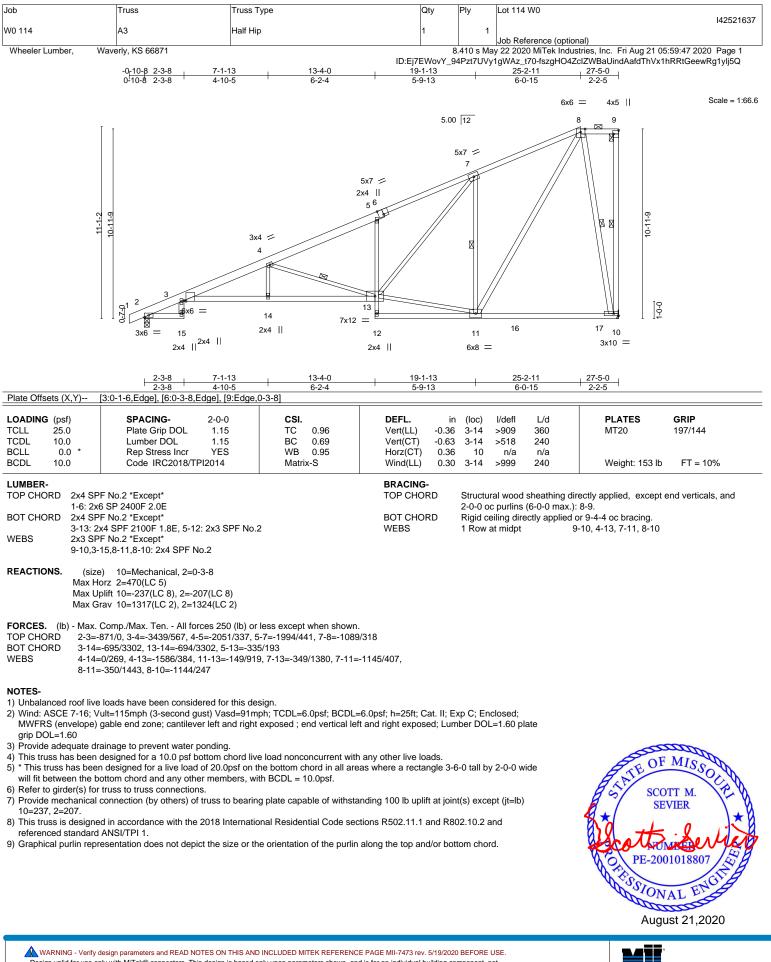


 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

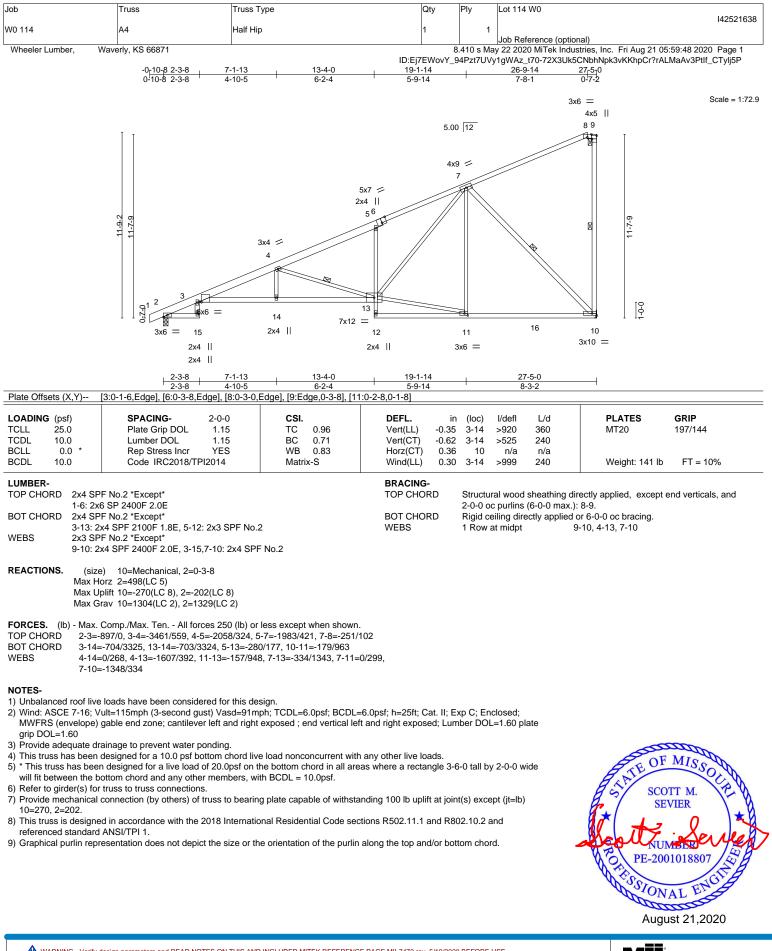
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







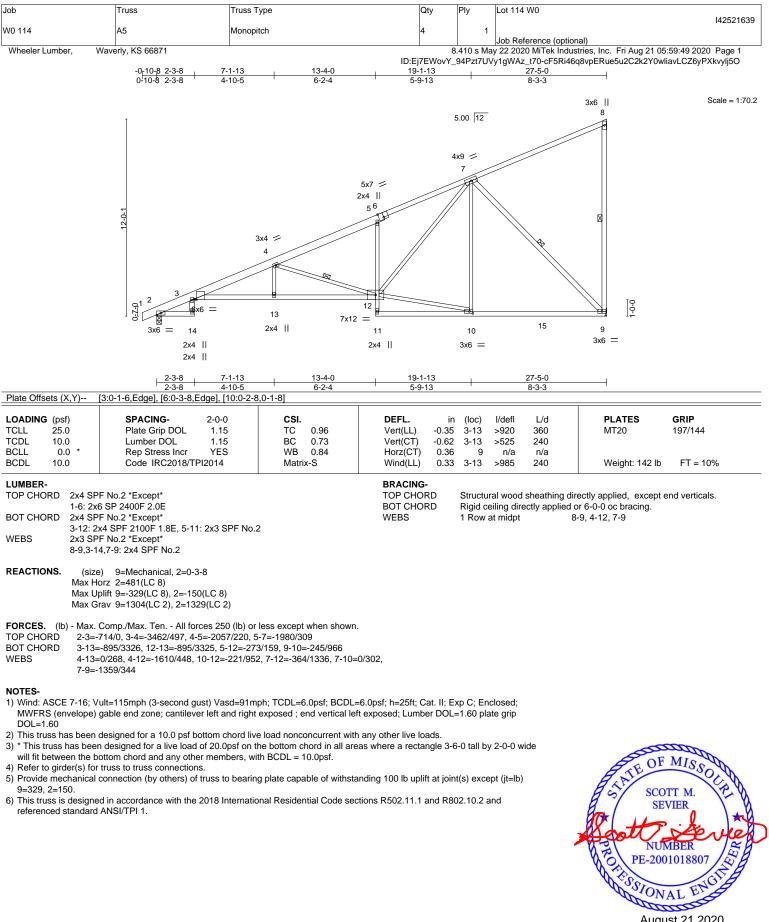




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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 **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

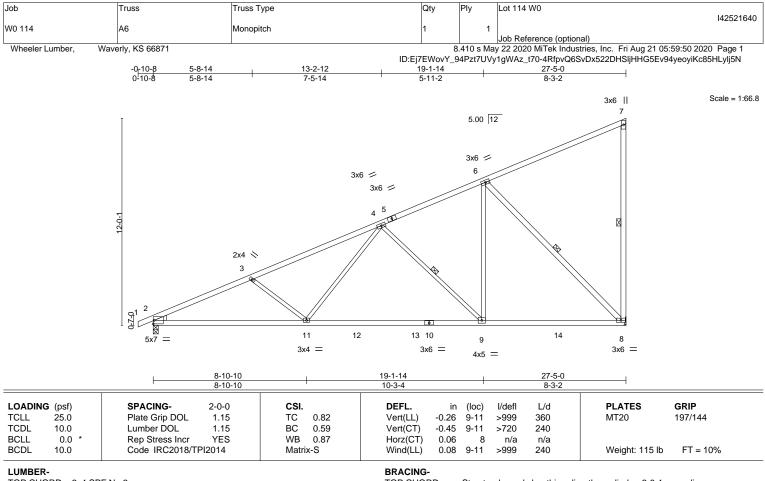
MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017



August 21,2020





TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2 *Except*
	7-8,6-8: 2x4 SPF No.2

TOP CHORD

WEBS

Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing 1 Row at midpt 7-8, 4-9, 6-8

WEDGE Left: 2x4 SPF No.2

REACTIONS. 8=Mechanical, 2=0-3-8 (size) Max Horz 2=478(LC 8) Max Uplift 8=-329(LC 8), 2=-150(LC 8)

Max Grav 8=1329(LC 2), 2=1354(LC 2)

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

TOP CHORD 2-3=-2502/266, 3-4=-2238/181, 4-6=-1142/65

- BOT CHORD 2-11=-656/2227, 9-11=-423/1549, 8-9=-239/1001
- WEBS 3-11=-407/260, 4-11=-51/728, 4-9=-766/256, 6-9=-56/968, 6-8=-1411/336

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 exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

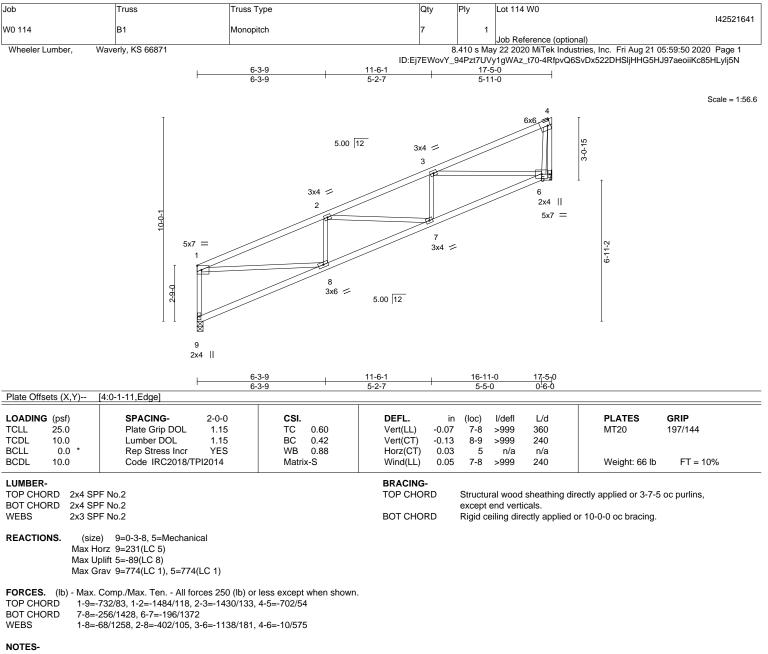
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=329, 2=150.

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.



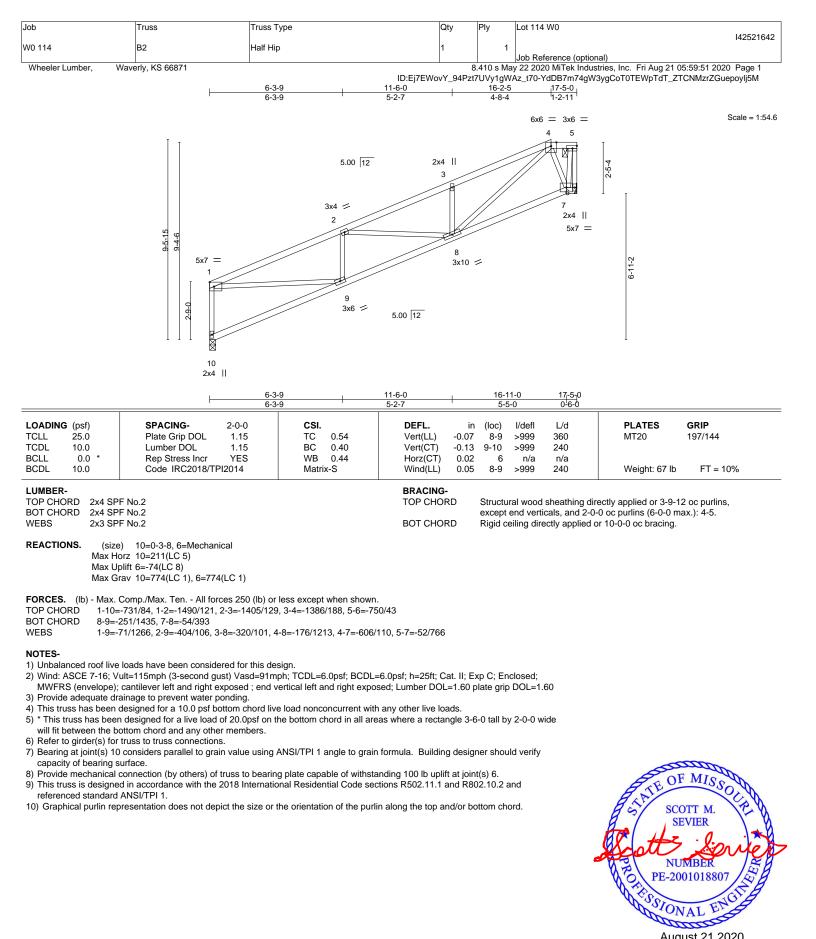




- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 9 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.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





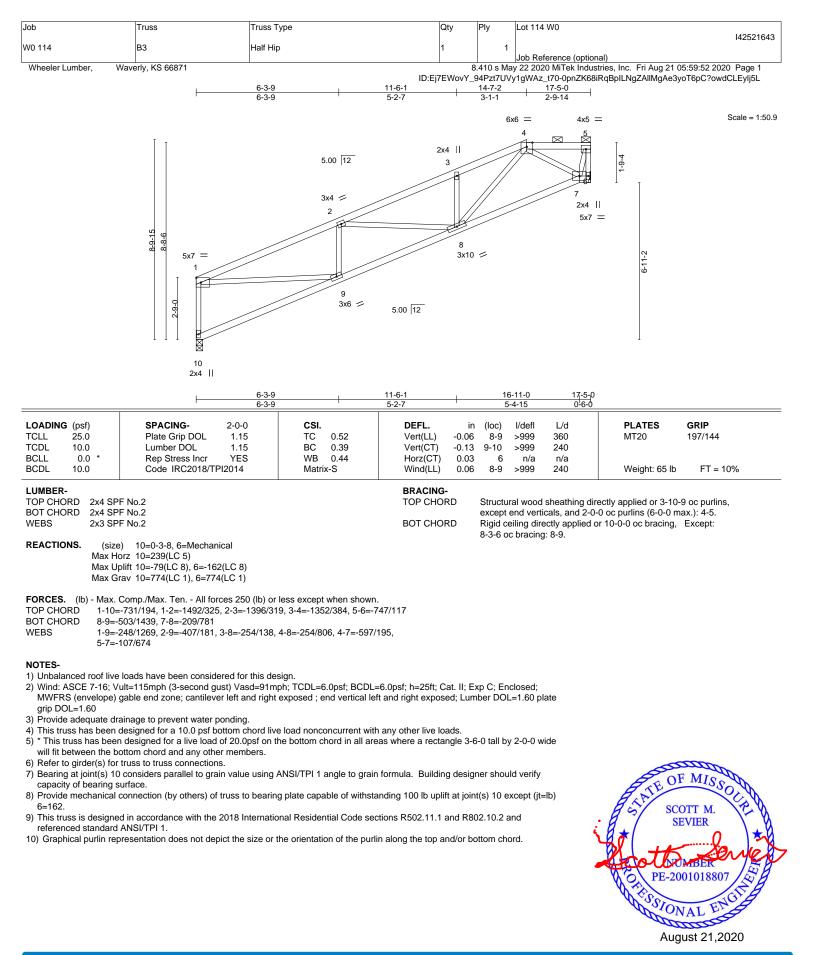






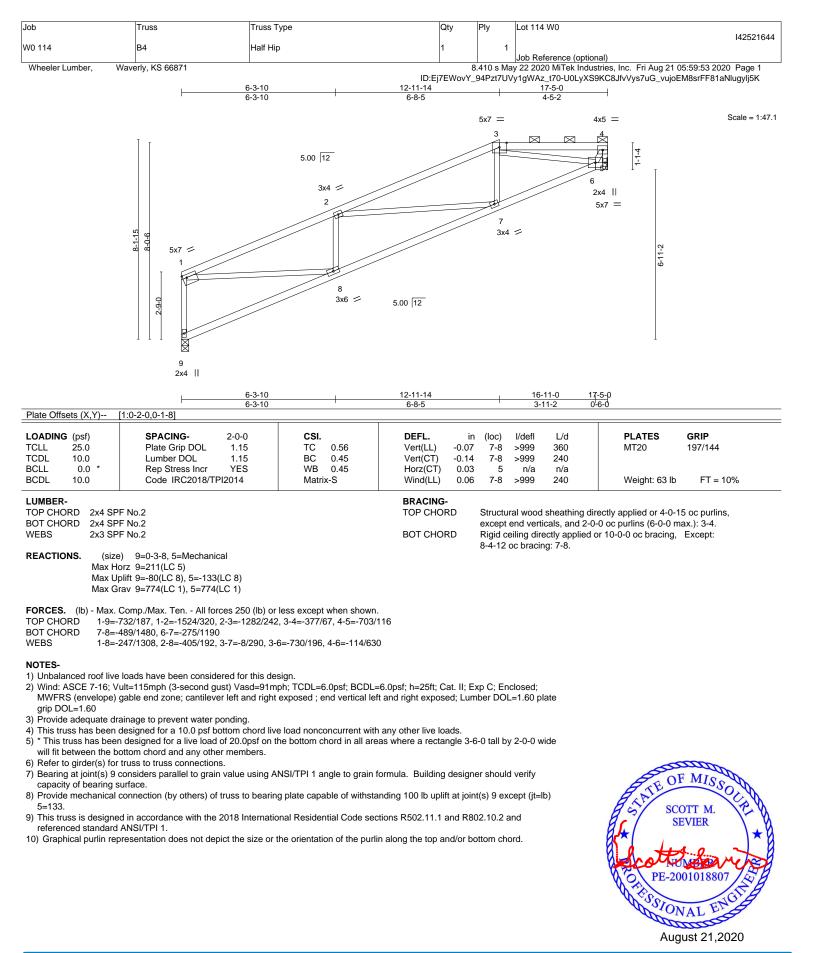
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August 21,2020

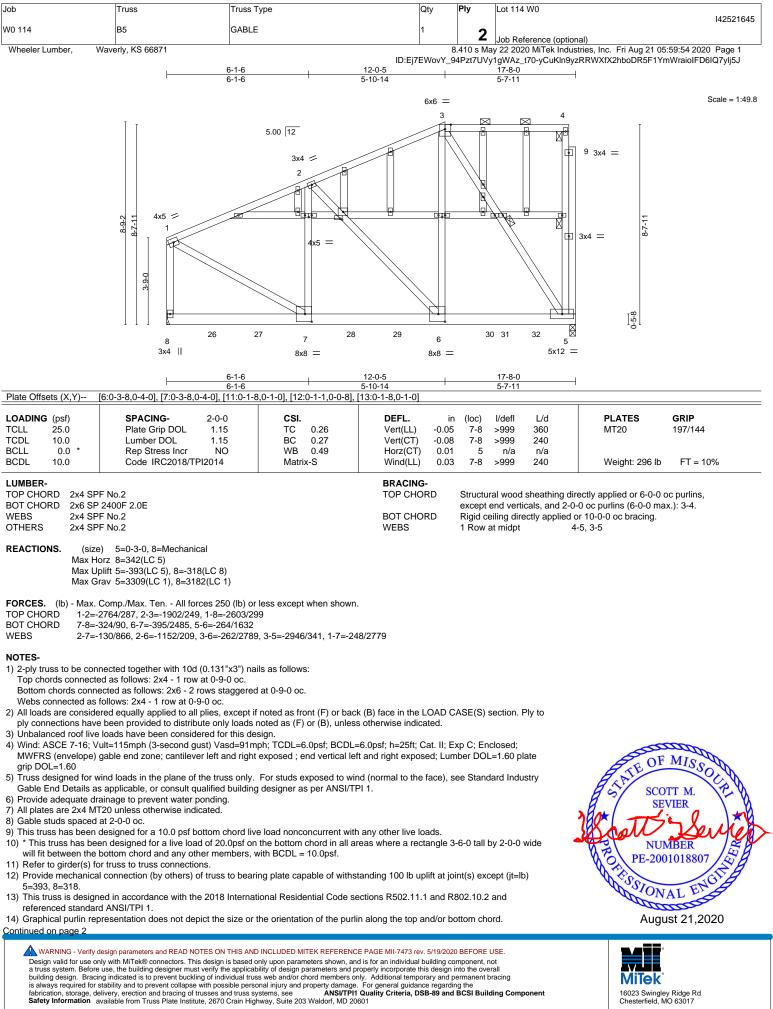












16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521645
W0 114	B5	GABLE	1	2	
				2	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.410 s Ma	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:54 2020 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-yCuKln9yzRRWXfX2hboDR5F1YmWraioIFD6IQ7yIj5J

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 619 lb down and 59 lb up at 2-0-0, 619 lb down and 63 lb up at 4-0-0, 619 lb down and 63 lb up at 6-0-0, 619 lb down and 63 lb up at 10-0-0, 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 14-0-0, and 619 lb down and 63 lb up at 14-0-0, and 619 lb down and 63 lb up at 14-0-0, and 619 lb down and 63 lb up at 16-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

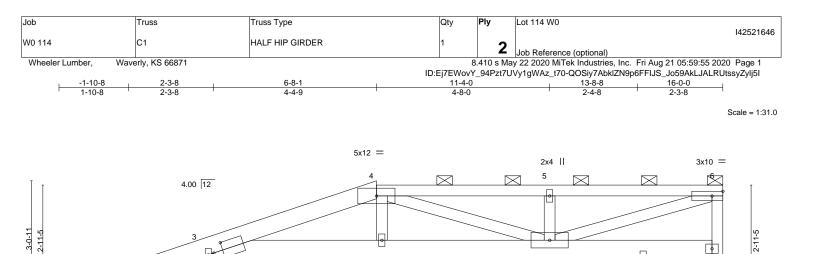
Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-619(B) 6=-619(B) 26=-619(B) 27=-619(B) 28=-619(B) 29=-619(B) 30=-619(B) 32=-619(B)





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2x4 ||

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214

13

2x4 ||

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5x7 ⋍

2

4x5 =

0-10-0

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2x4 ||

1-0-0

9

10

8

2x4 ||

2x4 || •

11

5x12 =

16

15

	2-3-8	6-8-1	11-4-0	13-8-8 16-0-0
Plate Offsets (X,Y) [2-3-8 [2:0-0-0,0-1-2], [3:0-3-1,0-2-9]	4-4-9	4-8-0	2-4-8 2-3-8
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NC Code IRC2018/TPI2014	5 TC 0.72 5 BC 0.83	DEFL. in (loc) I/defl Vert(LL) -0.16 3-12 >999 Vert(CT) -0.28 3-12 >677 Horz(CT) 0.19 7 n/a Wind(LL) 0.14 3-12 >999	L/d PLATES GRIP 360 MT20 197/144 240 n/a 240 Weight: 152 lb FT = 10%
4-6: 2x4 BOT CHORD 2x6 SPI 8-10: 2x WEBS 2x4 SPI REACTIONS. (size Max Ho Max Up	F 1650F 1.4E *Except* 4 SPF No.2 F No.2 *Except* 44 SPF No.2 F No.2 0 7=0-3-8, 2=0-3-8 0 7=0-3-8, 2=0-3-8 0 7=1512(LC 5) 0 1iff 7=-383(LC 4), 2=-384(LC 4) 1 av 7=1518(LC 1), 2=1404(LC 4)		except end vert	d sheathing directly applied or 6-0-0 oc purlins, iicals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. ectly applied or 6-0-0 oc bracing.
 TOP CHORD 2-3=-6 6-9=-7 BOT CHORD 3-12= WEBS 4-12= NOTES- 1) 2-ply truss to be conrected as feature of the second seco	580/133, 3-4=-4260/1051, 4-5=- 1264/343 -1017/4090, 11-12=-1035/4183 -196/985, 4-11=-855/221, 5-11= 	"x3") nails as follows: lered at 0-9-0 oc, 2x4 - 1 row at 0 aggered at 0-9-0 oc, 2x4 - 1 row except if noted as front (F) or bac y loads noted as (F) or (B), unles r this design. sd=91mph; TCDL=6.0psf; BCDL: and right exposed ; end vertical le hord live load nonconcurrent with psf on the bottom chord in all are bers. b bearing plate capable of withstant international Residential Code services size or the orientation of the purl ovided sufficient to support concert	1474/388,)-9-0 oc. at 0-9-0 oc. k (B) face in the LOAD CASE(S) section. s otherwise indicated. =6.0psf; h=25ft; Cat. II; Exp C; Enclosed; ft and right exposed; Lumber DOL=1.60 p	vide vide p at
Continued on page 2 LOAD CASE(S) Stand WARNING - Verify d Design valid for use on a truss system. Before building design. Bracir is always required for s fabrication, storage, de	ard esign parameters and READ NOTES ON ly with MiTek® connectors. This design use, the building designer must verify th ng indicated is to prevent buckling of indi tability and to prevent collapse with pos livery, erection and bracing of trusses a	THIS AND INCLUDED MITEK REFERENC is based only upon parameters shown, an e applicability of design parameters and p vidual truss web and/or chord members o bible personal injury and property damage	I Quality Criteria, DSB-89 and BCSI Building Com	

dol	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521646
W0 114	C1	HALF HIP GIRDER	1	2	
				_	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.410 s May	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:56 2020 Page 2

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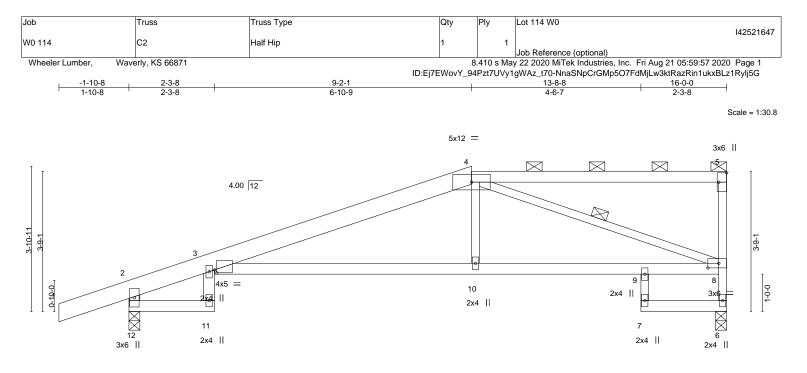
LOAD CASE(S) Standard

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

Vert: 1-4--70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 10=-230(F) 12=-449(F) 14=-230(F) 15=-230(F) 16=-230(F)





	2-3-8	<u>9-2-1</u> 6-10-9		<u>13-8-8</u> 4-6-7	<u> </u>
Plate Offsets (X,Y)	[3:0-0-11,0-0-15], [5:Edge,0-2-8], [8:0-3			4.0.7	2-3-0
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 0.72 BC 0.71 WB 0.60 Matrix-S	DEFL. in Vert(LL) -0.28 Vert(CT) -0.55 Horz(CT) 0.32 Wind(LL) 0.24	3-10 >342 240 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 61 lb FT = 10%
4-5: 2x	PF 1650F 1.4E *Except* 4 SPF No.2 FF No.2 *Except*		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals, and 2-0- Rigid ceiling directly applied o	· · · · · ·
7-9: 2x WEBS 2x3 SP	3 SPF No.2 F No.2 *Except* 12: 2x4 SPF No.2		WEBS	6-0-0 oc bracing: 6-7. 1 Row at midpt 4-	с, т

REACTIONS.	(size) 6=0-3-8, 12=0-3-8
	Max Horz 12=166(LC 5)
	Max Uplift 6=-134(LC 4), 12=-216(LC 4)
	Max Grav 6=700(LC 1), 12=859(LC 1)

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

- TOP CHORD 2-3=-263/11, 3-4=-1296/218, 6-8=-673/147, 2-12=-857/235
- BOT CHORD 3-10=-212/1223, 9-10=-207/1229, 8-9=-215/1232
- WEBS 4-10=0/317, 4-8=-1250/226

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

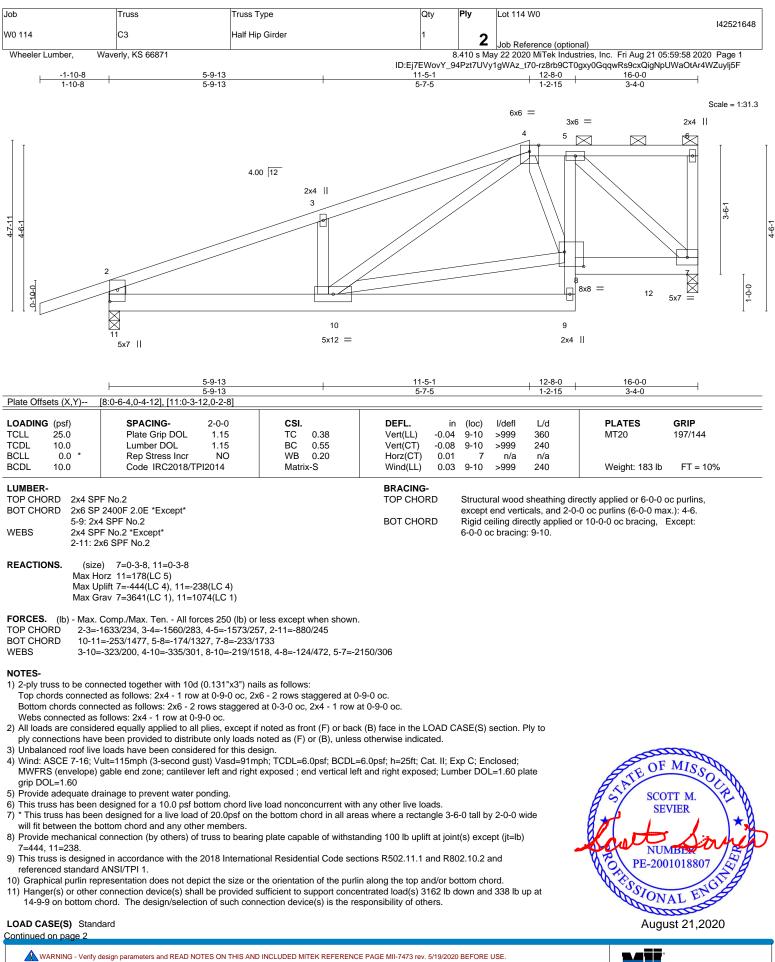
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=134, 12=216.

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

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









Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521648
W0 114	C3	Half Hip Girder	1	2	
				_	Job Reference (optional)
Wheeler Lumber, Wave	rly, KS 66871		8	.410 s Ma	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:58 2020 Page 2

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:58 202 Page ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-rz8rb9CT0gxy0GqqwRs9cxQigNpUWaOtAr4WZuylj5F

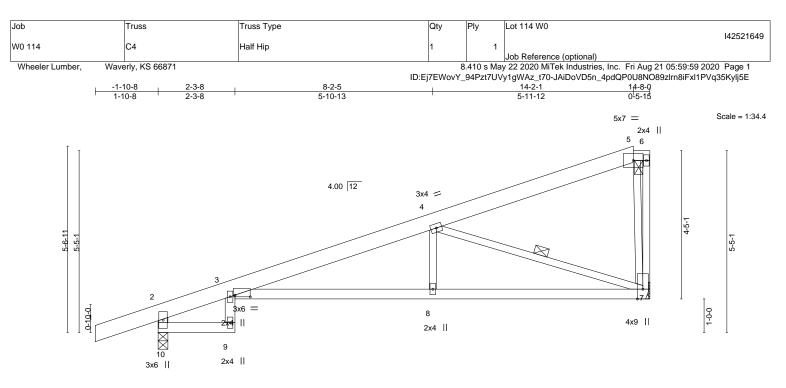
LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 12=-3162(B)





		<u>2-3-8</u> 2-3-8	+ <u>8-2-5</u> 5-10-13					4-8-0 -5-11		
Plate Offse	ets (X,Y)	[3:0-5-7,0-0-10]		1						
LOADING TCLL	(psf) 25.0	SPACING- 2-0- Plate Grip DOL 1.1		DEFL. Vert(LL)	in -0.19	(loc) 3-8	l/defl >888	L/d 360	PLATES MT20	GRIP 197/144
	10.0 0.0 *	Lumber DOL 1.1 Rep Stress Incr YE	5 BC 0.61	Vert(CT) Horz(CT)	-0.38 0.21	3-8 7	>461 n/a	240 n/a	101120	137/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.13	3-8	>999	240	Weight: 62 lb	FT = 10%

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

REACTIONS. (size) 7=Mechanical, 10=0-3-8 Max Horz 10=168(LC 5) Max Uplift 7=-39(LC 8), 10=-86(LC 4)

Max Grav 7=639(LC 1), 10=800(LC 1)

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

TOP CHORD 2-3=-266/0, 3-4=-1338/61, 2-10=-795/103

BOT CHORD 3-8=-76/1271, 7-8=-75/1270

WEBS 4-8=0/287, 4-7=-1314/110

NOTES-

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

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

3) 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.

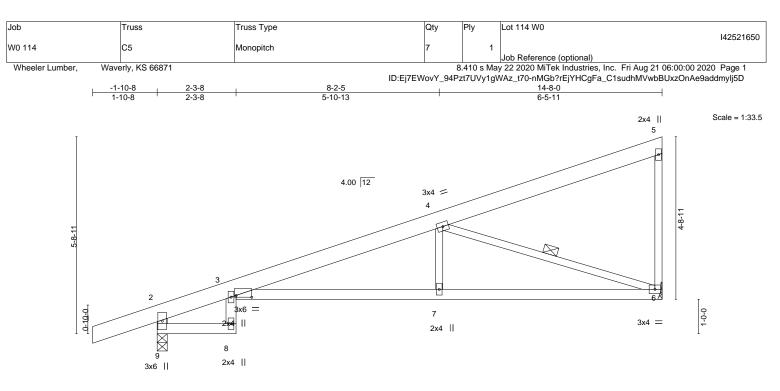
6) Refer to girder(s) for truss to truss connections.

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



		2-3-8	і і		8-2-5		1			14-8-0		L	
		2-3-8	н ¹		5-10-13					6-5-11		1	
Plate Offsets (2	X,Y) [[3:0-5-7,0-0-10]											
LOADING (ps	f)	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)	-0.19	3-7	>894	360	MT20	197/144	
TCDL 10.	0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.37	3-7	>463	240			
BCLL 0.	0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.21	6	n/a	n/a			

BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.13	3 3-7	>999	240	Weight: 59 lb	FT = 10%
LUMBER- TOP CHOI BOT CHOI				BRACING- TOP CHORD		ural wood t end ver	0	irectly applied or 2-2-0 c	oc purlins,
WEBS		F No.2 *Except* : 2x4 SPF No.2		BOT CHORD WEBS	•	ceiling dir at midpt		or 10-0-0 oc bracing. 4-6	

REACTIONS. (size) 6=Mechanical, 9=0-3-8 Max Horz 9=174(LC 5) Max Uplift 6=-43(LC 8), 9=-86(LC 4) Max Grav 6=639(LC 1), 9=800(LC 1)

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

2-3=-271/0, 3-4=-1347/62, 2-9=-795/102 TOP CHORD

3-7=-79/1281, 6-7=-78/1280 BOT CHORD

WEBS 4-7=0/287, 4-6=-1345/118

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

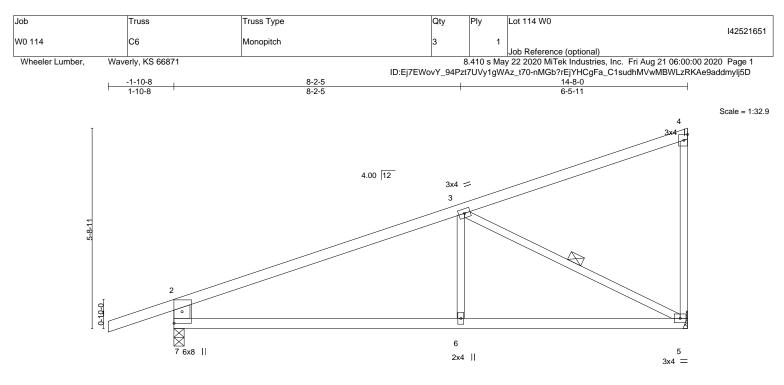
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.

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







		8-2-5 8-2-5				14-8-0 6-5-11		—
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 0.88	Vert(LL) -0.0	9 6-7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.1	8 6-7	>934	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.0	2 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.0	3 5-6	>999	240	Weight: 50 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUN	IRF	:R-	

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

2-7: 2x6 SPF No.2 REACTIONS. (size) 5=Mechanical, 7=0-3-8

Max Horz 7=190(LC 5) Max Uplift 5=-43(LC 8), 7=-89(LC 4)

Max Grav 5=634(LC 1), 7=803(LC 1)

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

 TOP CHORD
 2-3=-928/38, 2-7=-715/134

BOT CHORD 6-7=-49/789, 5-6=-49/789

3-6=0/317, 3-5=-873/89 WFBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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, 7.

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



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

3-5

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

except end verticals.

1 Row at midpt



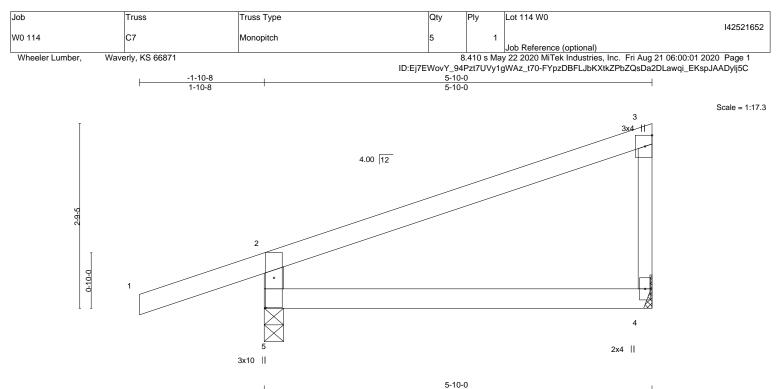


Plate Offsets (X,Y) [5:0-5-6,0-1-8]						
		0.01				
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP			
TCLL 25.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.04 4-5 >999 360 MT20 197/144			
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.08 4-5 >846 240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 18 lb FT = 10%			

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

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

REACTIONS. (size) 4=Mechanical, 5=0-3-8 Max Horz 5=120(LC 5) Max Uplift 4=-49(LC 8), 5=-138(LC 4) Max Grav 4=226(LC 1), 5=418(LC 1)

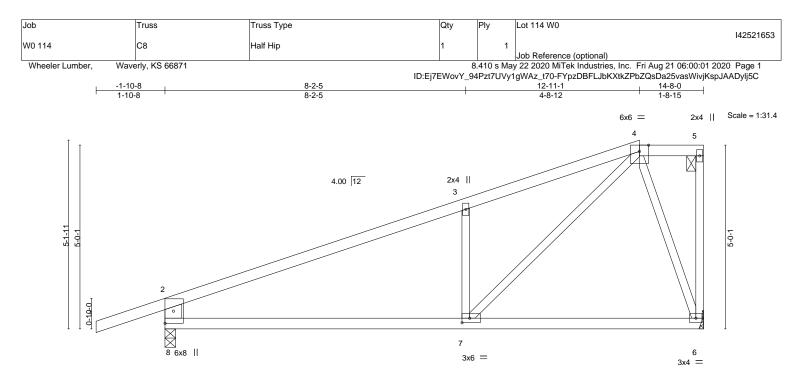
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-370/176

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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=138.
- 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.







		<u>8-2-5</u> 8-2-5		<u>12-11-1</u> 4-8-12	14-8-0 1-8-15
Plate Offsets (X,Y)	[7:0-2-8,0-1-8]				
LOADING (psf) ITCLL 25.0 ITCDL 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 0.90 BC 0.46 WB 0.35 Matrix-S	DEFL. ir Vert(LL) -0.09 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.03	9 7-8 >999 360 3 7-8 >933 240 1 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 52 lb FT = 10%
			BRACING- TOP CHORD BOT CHORD	except end verticals, an	ing directly applied or 2-2-0 oc purlins, id 2-0-0 oc purlins (6-0-0 max.): 4-5. plied or 10-0-0 oc bracing.
REACTIONS. (size Max He	e) 6=Mechanical, 8=0-3-8 prz 8=220(LC 5)				

Max Horz 8=220(LC 5) Max Uplift 6=-129(LC 4), 8=-201(LC 4) Max Grav 6=634(LC 1), 8=803(LC 1)

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

- TOP CHORD 2-3=-913/142, 3-4=-873/232, 2-8=-718/247
- BOT CHORD 7-8=-141/772

WEBS 3-7=-439/240, 4-7=-210/826, 4-6=-573/133

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.

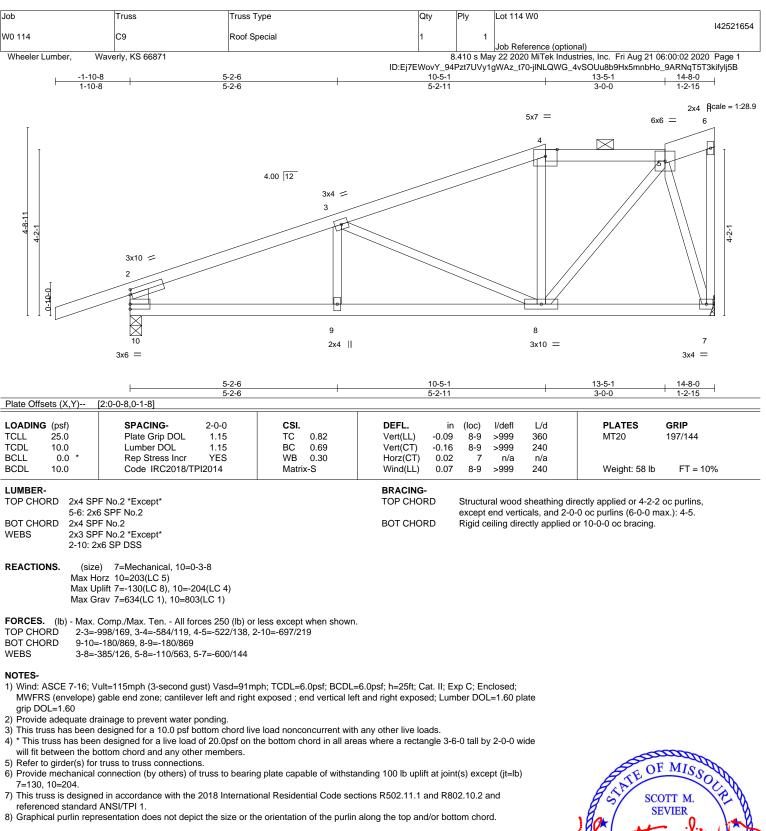
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=129, 8=201.

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.



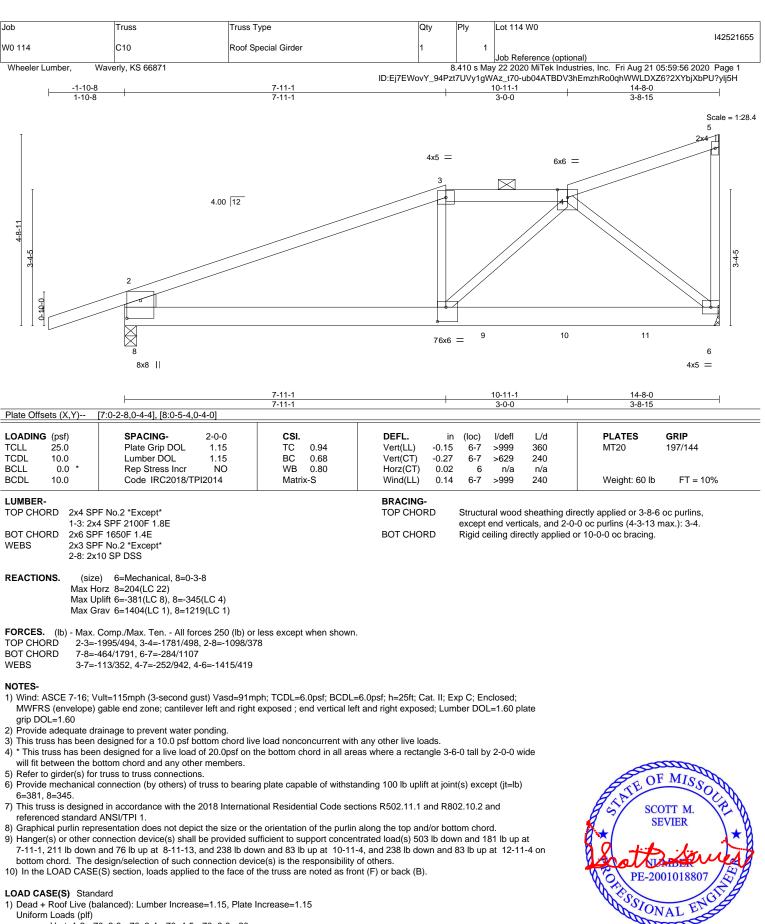






WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017



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

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 August 21,2020



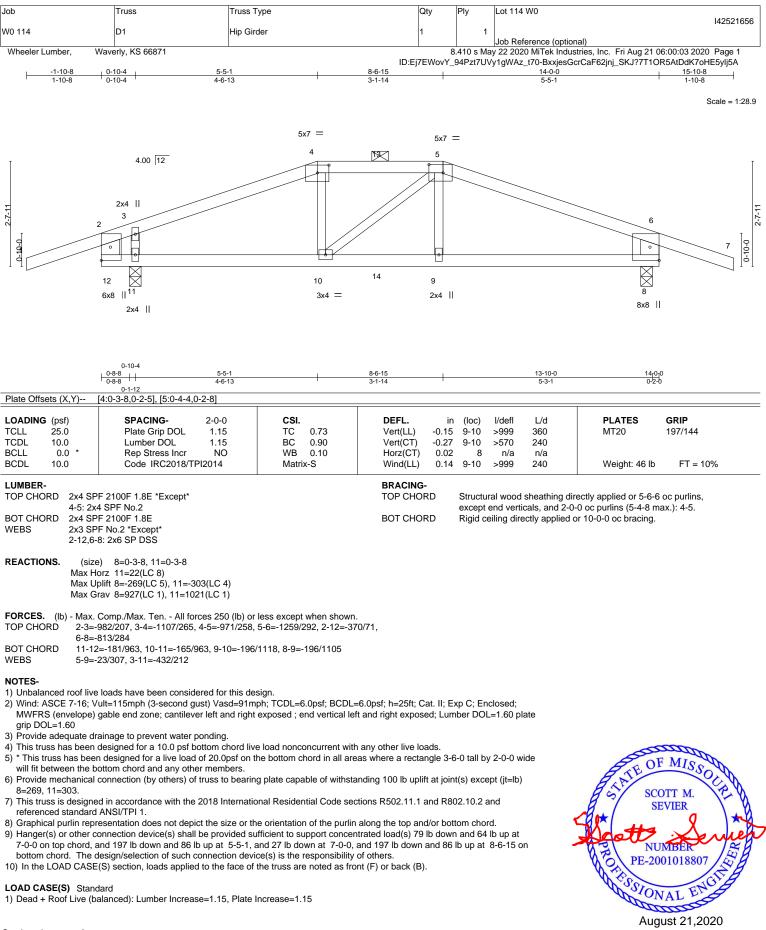
Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521655
W0 114	C10	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.410 s May	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:57 2020 Page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 7=-503(B) 9=-211(B) 10=-238(B) 11=-238(B)







Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521656
W0 114	D1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, W	averly, KS 66871		6	8.410 s Ma	y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:03 2020 Page 2

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:03 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-BxxjesGcrCaF62jnj_SKJ?7T1OR5AtDdK7oHE5ylj5A

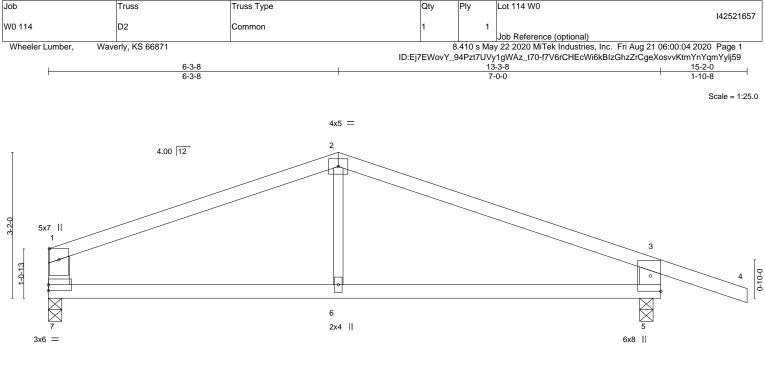
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20 Concentrated Loads (lb)

Vert: 10=-197(F) 9=-197(F) 13=-28(F) 14=-12(F)





LOADING (psf) SPACING- 2-0-0 CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0 Plate Grip DOL 1.15 TC 0.74 TCDL 10.0 Lumber DOL 1.15 BC 0.55	Vert(LL) -0.10 5-6 >999 360 Vert(CT) -0.20 5-6 >760 240	MT20 197/144
BCLL 0.0 * Rep Stress Incr YES WB 0.07 BCDL 10.0 Code IRC2018/TPI2014 Matrix-R	Horz(CT) 0.01 5 n/a n/a Wind(LL) 0.06 5-6 >999 240	Weight: 38 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

- TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 *Except* WEBS 2-6: 2x3 SPF No.2
- REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-46(LC 5) Max Uplift 7=-81(LC 4), 5=-181(LC 5) Max Grav 7=565(LC 1), 5=737(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-744/98, 2-3=-756/104, 1-7=-462/113, 3-5=-646/220
- BOT CHORD 6-7=-26/630, 5-6=-26/630

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) 7 except (it=lb) 5=181.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

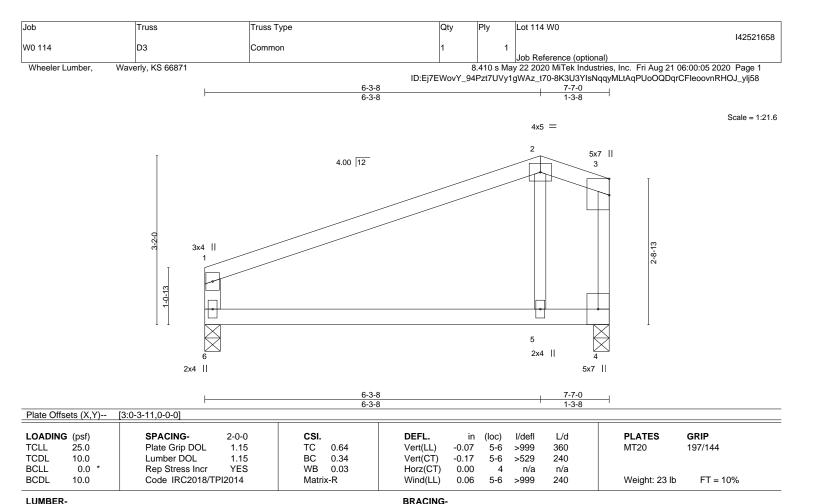


Structural wood sheathing directly applied or 5-6-0 oc purlins,

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

except end verticals.





BRACING-

TOP CHORD

BOT CHORD

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

TOP CHORD

BOT CHORD

REACTIONS.

WEBS

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x3 SPF No.2 *Except*

(size) 6=0-3-8, 4=0-3-8 Max Horz 6=100(LC 5)

1-6: 2x4 SPF No.2

1-6=-257/90

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

Max Uplift 6=-53(LC 4), 4=-55(LC 4) Max Grav 6=330(LC 1), 4=330(LC 1)

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) 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) 6, 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.

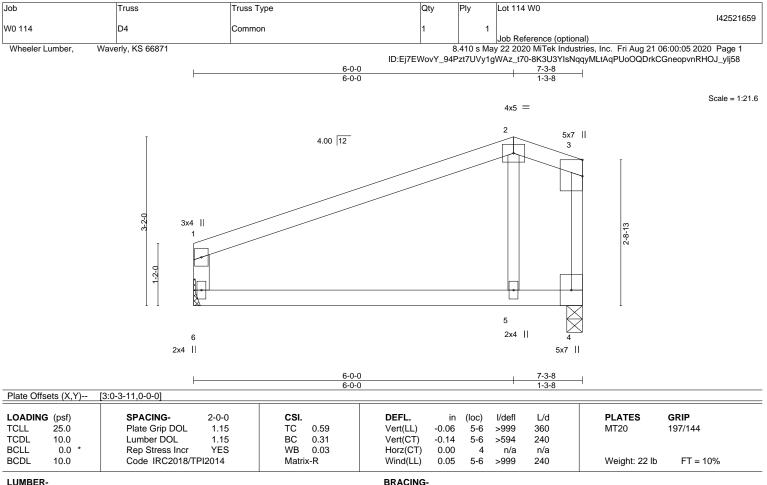


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x3 SPF No.2 *Except* 1-6: 2x4 SPF No.2

(size) 6=Mechanical, 4=0-3-8 Max Horz 6=99(LC 5) Max Uplift 6=-51(LC 4), 4=-52(LC 4)

Max Grav 6=317(LC 1), 4=317(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

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

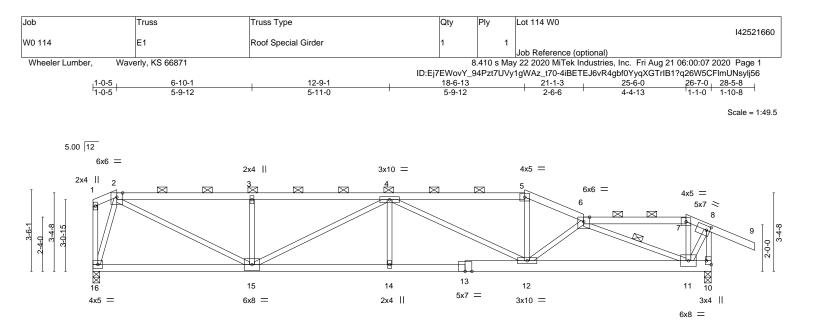


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





1-0-5	6-10-1	12-9-1	18-6-13	21-1-3	25-6-0 26-7-0		
Plate Offsets (X,Y)	5-9-12 [8:0-1-13,0-2-3], [10:Edge,0-2-8]	5-11-0	5-9-12	2-6-6	4-4-13 1-1-0		
	[0.0-1-13,0-2-3], [10.Luge,0-2-0]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.60 BC 0.77 WB 0.75 Matrix-S	Vert(LL) -0.16		PLATES GRIP MT20 197/144 Weight: 107 lb FT = 10%		
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 10-13: : WEBS 2x3 SP	F No.2 *Except* 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end verticals, and 2-0 Rigid ceiling directly applied	irectly applied or 3-8-14 oc purlins, D-0 oc purlins (3-5-10 max.): 2-5, 6-7. or 6-0-0 oc bracing. 6-11		
Max He Max U	 i6=0-3-8, 10=0-3-8 i6=-129(LC 6) plift 16=-204(LC 5), 10=-360(LC 5) rav 16=1179(LC 1), 10=1255(LC 1) 						
TOP CHORD 2-3=- 7-8=- BOT CHORD 15-16 WEBS 2-15=	7-8=-546/130, 8-10=-1314/309 BOT CHORD 15-16=-61/357, 14-15=-454/2572, 12-14=-454/2573, 11-12=-437/2400						
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr. 4) This truss has been 5) * This truss has been will fit between the b 6) Provide mechanical 16=204, 10=360. 7) This truss is designe referenced standard 8) Graphical purlin repr 9) Hanger(s) or other cc 25-6-0 on top chord, is the responsibility of 	esentation does not depict the size or th onnection device(s) shall be provided su and 139 lb down and 746 lb up at 25-4	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are g plate capable of withsta anal Residential Code sec e orientation of the purlin fficient to support concen -15 on bottom chord. The	t and right exposed; Lur any other live loads. as where a rectangle 3- nding 100 lb uplift at join tions R502.11.1 and R8 along the top and/or bo trated load(s) 29 lb dow e design/selection of suc	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) except (jt=lb) 102.10.2 and ttom chord. in and 80 lb up at	SCOTT M. SEVIER PE-2001018807		
LOAD CASE(S) Stand 1) Dead + Roof Live (ba	dard alanced): Lumber Increase=1.15, Plate I	ncrease=1.15			CONTRACTOR		

Continued on page 2

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



August 21,2020

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521660
W0 114	E1	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS 66871		8	.410 s Ma	y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:07 2020 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-4iBETEJ6vR4gbf0YyqXGTrIB1?q26W5CFImUNsylj56

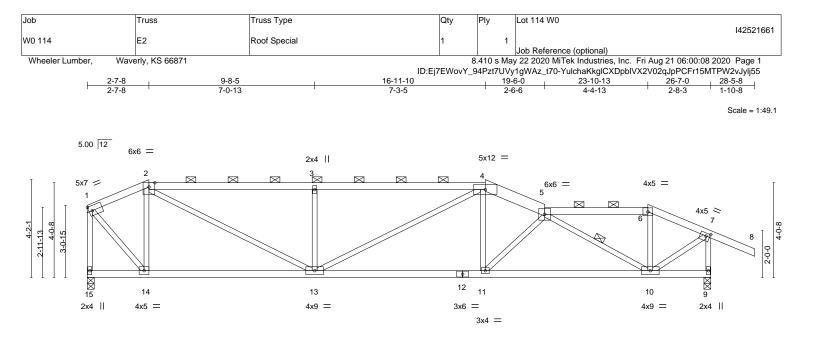
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb) Vert: 7=22(F) 11=57(F)

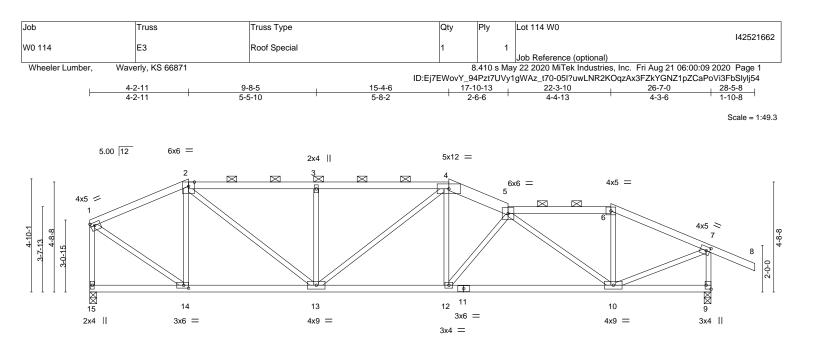




<u> 2-7</u> 2-7		ł	<u>16-11-10</u> 7-3-5	19-6-0	23-10-13			
Plate Offsets (X,Y)	[7:0-2-0,0-1-8]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.79 BC 0.65 WB 0.50 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/defl 0.13 11-13 >999 0.25 11-13 >999 0.06 9 n/a 0.10 11-13 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 104 lb	GRIP 197/144 FT = 10%	
4-5: 2x BOT CHORD 2x4 SP WEBS 2x3 SP			BRACING- TOP CHORD BOT CHORD WEBS		als, and 2-0-0 o	0		
Max H Max U	e) 15=0-3-8, 9=0-3-8 orz 15=-130(LC 4) plift 15=-176(LC 5), 9=-235(LC 5) rav 15=1182(LC 1), 9=1331(LC 1)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-805/156, 2-3=-2037/394, 3-4=-2035/392, 4-5=-2124/357, 5-6=-968/154, 6-7=-1088/161, 1-15=-1185/178, 7-9=-1327/232 BOT CHORD 13-14=-96/753, 11-13=-278/1956, 10-11=-349/2207 WEBS 2-14=-728/202, 2-13=-263/1469, 3-13=-590/240, 4-13=-73/266, 4-11=-12/434, 5-11=-377/140, 5-10=-1448/270, 1-14=-167/1122, 7-10=-137/1202								
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) This truss has been * This truss has bee will fit between the b Provide mechanical 15=176, 9=235. This truss is designer referenced standard 	e loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internation ANSI/TPI 1. esentation does not depict the size or th	ph; TCDL=6.0psf; BCDL exposed ; end vertical le e load nonconcurrent wit he bottom chord in all ar g plate capable of withste onal Residential Code se	oft and right exposed; h any other live loads eas where a rectangle anding 100 lb uplift at ctions R502.11.1 and	Lumber DOL=1.60 pla = 3-6-0 tall by 2-0-0 wi joint(s) except (jt=lb) R802.10.2 and		STATE OF SCORE	MISSOUR TT M. VIER	



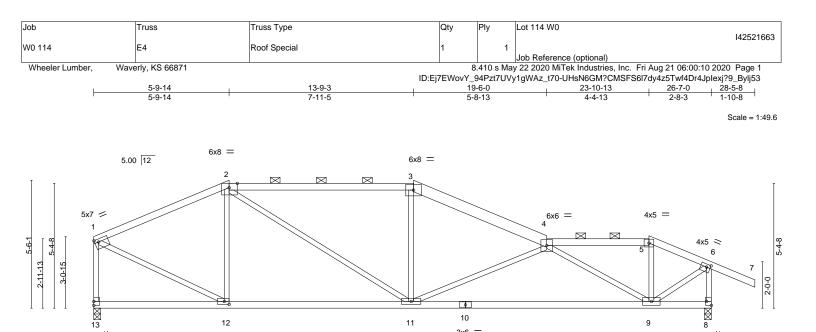




 	4-2-11 9-8-5 4-2-11 5-5-10		-4-6 8-2	<u>17-10-13</u>	<u>22-3-10</u> 4-4-13	26-7-0	———————————————————————————————————————			
Plate Offsets (X,Y) [1:0-2-0,0-1-8], [7:0-1-14,0-2-0], [9:Edge,0-2-8], [14:0-2-8,0-1-8]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.44 BC 0.60 WB 0.80 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.09 12-13 -0.20 10-12 0.05 9 0.07 12-13	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 108 lb	GRIP 197/144 FT = 10%			
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 REACTIONS. (size) 15=-128(LC 4) Max Uplift 15=-153(LC 5), Max Grav 15=-1182(LC 1),										
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1053/187, 2-3=-1688/324, 3-4=-1686/323, 4-5=-1901/319, 5-6=-1203/194, 6-7=-1364/195, 1-15=-1149/173, 7-9=-1302/231 BOT CHORD 13-14=-105/944, 12-13=-222/1741, 10-12=-292/2005 WEBS 2-14=-539/151, 2-13=-171/991, 3-13=-465/186, 4-12=-42/485, 5-12=-446/154, 5-10=-1003/192, 6-10=0/264, 1-14=-147/1120, 7-10=-143/1304										
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 6) Provide mechanical 15=153, 9=218. 7) This truss is designer referenced standard 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internation ANSI/TPI 1. resentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstar onal Residential Code sect	and right expose any other live loa as where a rectan nding 100 lb uplift tions R502.11.1 a	d; Lumber DOL ds. gle 3-6-0 tall by at joint(s) exce nd R802.10.2 a	.=1.60 plate / 2-0-0 wide pt (jt=lb) and		MISSOLUTI M. VIER			







11

3x10 =

3x6 =

 	5-9-14 5-9-14	<u>13-9-3</u> 7-11-5		9-6-0 8-13	<u>23-10-13</u> 4-4-13	26-7-1	
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [2:0-4-3,Edge], [6:0-2-0,			0-13	4-4-10	2-0-0	5
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.74 BC 0.88 WB 0.97 Matrix-S	DEFL. ir Vert(LL) -0.24 Vert(CT) -0.50 Horz(CT) 0.05 Wind(LL) 0.06	9-11 >999 9-11 >630	L/d 360 240 n/a 240	PLATES MT20 Weight: 106 lb	GRIP 197/144 FT = 10%
			BRACING- TOP CHORD BOT CHORD	except end vertie	cals, and 2-0-0 of ctly applied or 10	y applied or 4-6-15 c purlins (4-4-5 ma)-0-0 oc bracing, I	x.): 2-3, 4-5.
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 1-2=- 1-13= 1-13=	e) 13=0-3-8, 8=0-3-8 lorz 13=-126(LC 4) plift 13=-124(LC 5), 8=-206(LC 5) rav 13=1182(LC 1), 8=1331(LC 1) Comp./Max. Ten All forces 250 (lb) or -1221/188, 2-3=-1591/256, 3-4=-1784/24						
WEBS 2-12=	2=-93/1078, 9-11=-292/2188 =-390/142, 2-11=-94/681, 3-11=0/297, 4 =-129/1166, 6-9=-77/1246	-11=-663/230, 4-9=-1391/	/256,				
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dr 4) This truss has been * This truss has bee will fit between the b Provide mechanical 13=124, 8=206. This truss is designe referenced standard 	a loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t bottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= exposed ; end vertical let e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	ft and right exposed; Lun n any other live loads. as where a rectangle 3- anding 100 lb uplift at joir stions R502.11.1 and R8	nber DOL=1.60 pl 6-0 tall by 2-0-0 w nt(s) except (jt=lb) 02.10.2 and			VIER Serve



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

9

4x9 =

8

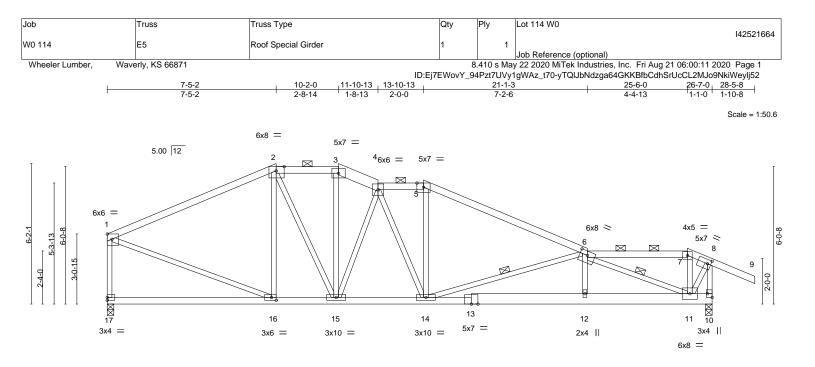
3x4 ||

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

12

3x6 =

3x4 ||



	7-5-2	10-2-0 11-10-13	13-10-13	21-1-3	25-6-0	26-7-0 ₁		
F	7-5-2	2-8-14 1-8-13	2-0-0	7-2-6	4-4-13	1-1-0		
Plate Offsets (X,Y)	[1:Edge,0-2-12], [2:0-4-3, Edge], [6:0-4-0),0-2-3], [8:0-1-13,0-2-3],	[10:Edge,0-2-8], [16:	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 0.70 BC 0.75	Vert(CT) -0	in (loc) l/defl L/d 0.12 12-14 >999 360 0.22 12-14 >999 240	PLATES MT20	GRIP 197/144		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.60 Matrix-S		0.05 10 n/a n/a 0.09 12-14 >999 240	Weight: 122 lb	FT = 10%		
1-2,5-6 BOT CHORD 2x4 SF 10-13:	PF No.2 *Except* 5: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No PF No.2 *Except* 2x6 SPF No.2 E No.2	b.2	BRACING- TOP CHORD BOT CHORD	except end verticals, an 6-7. Rigid ceiling directly app	ng directly applied or 4-5-2 d 2-0-0 oc purlins (4-3-12 n blied or 6-0-0 oc bracing.			
WEBS 2x3 SPF No.2 WEBS 1 Row at midpt 6-14, 6-11 REACTIONS. (size) 17=0-3-8, 10=0-3-8 Max Horz 17=-124(LC 6) Max Uplift 17=-101(LC 8), 10=-333(LC 9) Max Grav 17=1179(LC 1), 10=1255(LC 1) 1								
TOP CHORD 1-2=- 6-7=- BOT CHORD 15-16 WEBS 2-16:	Comp./Max. Ten All forces 250 (lb) or -1290/171, 2-3=-1262/228, 3-4=-1364/22 -481/128, 7-8=-555/143, 1-17=-1112/137 6=-57/1112, 14-15=-120/1502, 12-14=-3 274/114, 2-15=-116/468, 3-15=-60/367 923/234, 6-11=-2182/305, 1-16=-83/12	29, 4-5=-1561/291, 5-6=-1 7, 8-10=-1339/326 73/2452, 11-12=-377/244 7, 4-15=-722/179, 5-14=0/	790/265, 7					
 Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60 Provide adequate di This truss has been * This truss has bee will fit between the b 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t vottom chord and any other members. connection (by others) of truss to bearin	ph; TCDL=6.0psf; BCDL= exposed ; end vertical let e load nonconcurrent with he bottom chord in all are	ft and right exposed; any other live loads as where a rectangle	Lumber DOL=1.60 plate - 9 3-6-0 tall by 2-0-0 wide	STATE OF	TT M.		

- 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) 29 lb down and 80 lb up at 25-6-0 on top chord, and 139 lb down and 746 lb up at 25-4-15 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

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UMBER

E

August 21,2020

PE-200101880'

OFFESSIONAL

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0		
NO 444	Fr				142521664		
W0 114	E5	Roof Special Girder	1	1	Job Reference (optional)		
					Job Reference (optional)		
Wheeler Lumber, Waverly, KS 66871 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:12 2020 Page 2							
		ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Qg_7XxNFjzizhQvWkN6RAu?0E0YanpZxO1UF24ylj51					

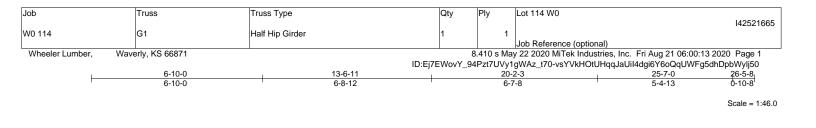
LOAD CASE(S) Standard

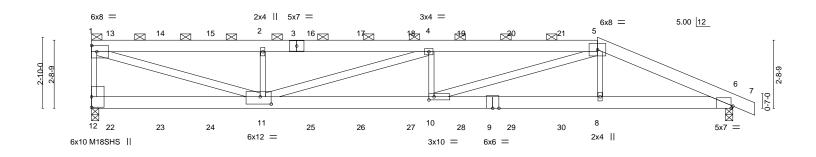
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-17=-20 Concentrated Loads (lb)

Vert: 7=22(B) 11=57(B)







⊢	6-10-0	13-6-11		20-2-3	25-7-0			
Plate Offsets (X,Y)	6-10-0 [6:0-0-14,Edge], [10:0-2-8,0-1-8], [11:0	<u>6-8-12</u> -5-4,0-3-8]		6-7-8	5-4-13			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.96 BC 0.96 WB 0.68 Matrix-S	Vert(CT) -0 Horz(CT) 0	in (loc) l/defl L/d .30 10-11 >999 360 .56 10-11 >546 240 .09 6 n/a n/a .26 10-11 >999 240	PLATES GRIP MT20 197/144 M18SHS 197/144 Weight: 124 lb FT = 10%			
3-5: 2 BOT CHORD 2x6 S 9-12: WEBS 2x3 S	PF No.2 *Except* x6 SPF 1650F 1.4E PF No.2 *Except* 2x6 SPF 1650F 1.4E PF No.2 *Except* I-11,5-10: 2x4 SPF 2100F 1.8E		BRACING- TOP CHORD BOT CHORD		g directly applied or 3-3-7 oc purlins, l 2-0-0 oc purlins (2-2-1 max.): 1-5. lied or 8-0-1 oc bracing.			
Max I Max I	ze) 12=0-3-8, 6=0-3-8 Horz 12=-103(LC 4) Jplift 12=-428(LC 4), 6=-397(LC 5) Grav 12=2125(LC 1), 6=2054(LC 1)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-12=-1971/487, 1-2=-4799/986, 2-4=-4799/986, 4-5=-6090/1255, 5-6=-4493/872 BOT CHORD 10-11=-1176/6086, 8-10=-745/4029, 6-8=-745/4054 WEBS 1-11=-1008/4983, 2-11=-874/405, 4-11=-1358/290, 4-10=-474/304, 5-10=-457/2277, 5-8=-3/588								
 Wind: ASCE 7-16; MWFRS (envelope grip DOL=1.60 Provide adequate of All plates are MT2C This truss has been will fit between the rovide mechanica 12=428, 6=397. This truss is design referenced standar Graphical purlin rej 10) Hanger(s) or othe 0-9-8, 108 lb dow 90 lb up at 8-9-8, and 108 lb down at down at 2-9-8, 65 down at 14-9-8, 6 	re loads have been considered for this de Vult=115mph (3-second gust) Vasd=91r) gable end zone; cantilever left and righ drainage to prevent water ponding.) plates unless otherwise indicated. n designed for a 10.0 psf bottom chord line en designed for a live load of 20.0psf on bottom chord and any other members. I connection (by others) of truss to bearined d ANSI/TPI 1. presentation does not depict the size or the r connection device(s) shall be provided n and 90 lb up at 2-9-8, 108 lb down and 108 lb down at 4-9-8, 67 lb down at 6-9-8, 57 lb down at 16-9-8, and 67 lb down at f such connection device(s) is the respo E(S) section, loads applied to the face o	nph; TCDL=6.0psf; BCDL= t exposed ; end vertical lef ve load nonconcurrent with the bottom chord in all are ng plate capable of withsta ional Residential Code sec he orientation of the purlin sufficient to support conce d 90 lb up at 4-9-8, 108 lb 8 lb down and 90 lb up at and 90 lb up at 18-9-8 on 67 lb down at 8-9-8, 67 lb 18-9-8, and 354 lb down a nsibility of others.	and right exposed; I any other live loads. as where a rectangle nding 100 lb uplift at tions R502.11.1 and along the top and/or ntrated load(s) 113 lt down and 90 lb up at 12-9-8, 108 lb down top chord, and 73 lb down at 10-9-8, 67 ind 117 lb up at 20-2	3-6-0 tall by 2-0-0 wide joint(s) except (jt=lb) R802.10.2 and bottom chord. o down and 88 lb up at t 6-9-8, 108 lb down and and 90 lb up at 14-9-8, down at 0-9-8, 67 lb lb down at 12-9-8, 67 lb	SCOTT M. SEVIER NUMBER PE-2001018807 August 21,2020			
Design valid for use a truss system. Befo building design. Bra is always required fo fabrication, storage,	v design parameters and READ NOTES ON THIS AN only with MiTek® connectors. This design is based re use, the building designer must verify the applica cing indicated is to prevent buckling of individual trr r stability and to prevent collapse with possible pers delivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	only upon parameters shown, and bility of design parameters and pr iss web and/or chord members on sonal injury and property damage. systems, see ANSI/TPI1	I is for an individual buildin operly incorporate this des ly. Additional temporary a For general guidance reg Quality Criteria, DSB-89	g component, not ign into the overall nd permanent bracing	16023 Swingley Ridge Rd Chesterfield, MO 63017			

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521665
W0 114	G1	Half Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:13 2020 Page 2					

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-vsYVkHOtUHqqJaUil4dgi6Y6oQqUWFg5dhDpbWylj50

LOAD CASE(S) Standard

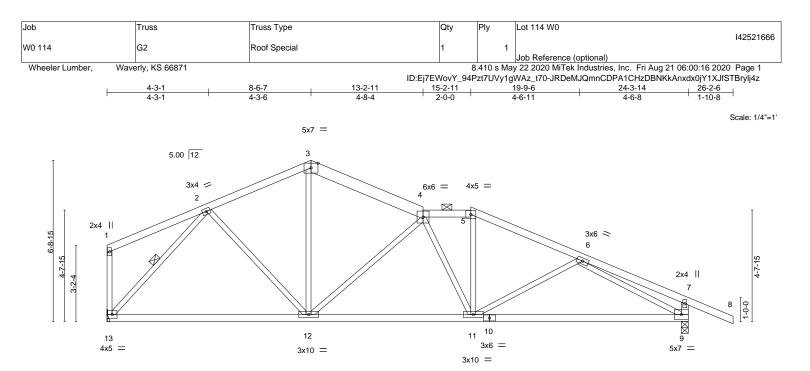
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-5=-70, 5-7=-70, 6-12=-20

Concentrated Loads (lb)

Vert: 11=-43(F) 2=-103(F) 8=-354(F) 13=-113(F) 14=-103(F) 15=-103(F) 16=-103(F) 17=-103(F) 18=-103(F) 19=-103(F) 20=-103(F) 21=-103(F) 22=-46(F) 23=-43(F) 24=-43(F) 25=-43(F) 25=-43(F) 27=-43(F) 28=-43(F) 29=-43(F) 30=-43(F) 3





		8-6-7 8-6-7				15-2-11 6-8-4				24-3-14 9-1-3		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.33	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.35	9-11	>827	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	k-S	Wind(LL)	0.03	11-12	>999	240	Weight: 101 lb	FT = 10%

TOP CHORD	2x4 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 4-2-15 oc purlins,
	3-4: 2x6 SPF No.2		except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except*	WEBS	1 Row at midpt 2-13
	7-9: 2x4 SPF No.2		

REACTIONS. (size) 13=Mechanical, 9=0-3-8 Max Horz 13=-110(LC 6) Max Uplift 9=-51(LC 9) Max Grav 13=1077(LC 1), 9=1231(LC 1)

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

 TOP CHORD
 2-3=-1084/64, 3-4=-1069/51, 4-5=-1389/64, 5-6=-1569/52, 6-7=-282/0, 7-9=-375/47

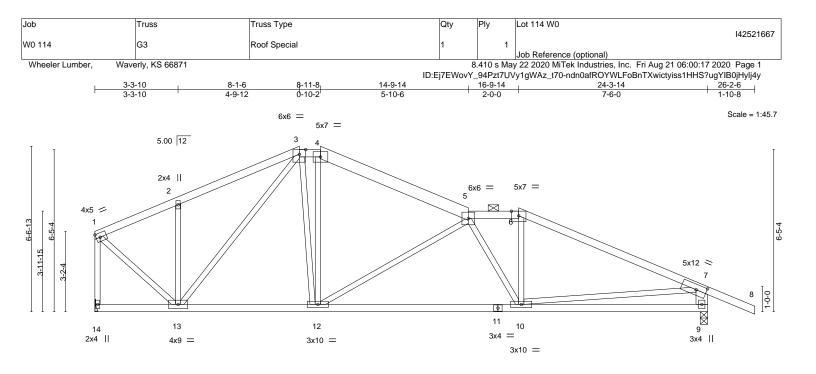
- BOT CHORD 12-13=0/789, 11-12=0/1460, 9-11=-36/1450
- WEBS 2-12=0/308, 3-12=0/467, 4-12=-709/83, 5-11=0/338, 2-13=-1160/22, 6-9=-1501/104

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) 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.
- 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.



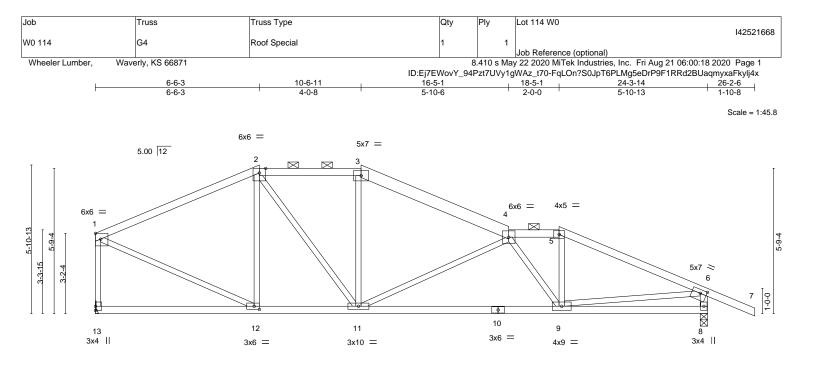




⊢ −−−	4-1-15 8-11		16-9-14		24-3-14					
Plate Offsets (X,Y)	<u>4-1-15</u> <u>4-9-</u> [7:0-4-15,0-2-8]		7-10-6		7-6-0					
	[1.0 + 10;0 2 0]									
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 CODI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.77 BC 0.59 WB 0.92		2 >999 360 2 >999 240 9 n/a n/a	PLATES MT20	GRIP 197/144				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.03 10-12	2 >999 240	Weight: 107 lb	FT = 10%				
4-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF	TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-12 max.): 3-4, 5-6. BOT CHORD 2x4 SPF No.2 BOT CHORD BOT CHORD									
Max H Max U	e) 14=Mechanical, 9=0-3-8 lorz 14=-110(LC 6) plift 9=-50(LC 9) rav 14=1073(LC 1), 9=1233(LC 1)									
TOP CHORD 1-2=- 1-14= BOT CHORD 12-13 WEBS 2-13=	Comp./Max. Ten All forces 250 (lb -813/27, 2-3=-852/63, 3-4=-994/65, 4 1045/8, 7-9=-1165/88 3=0/947, 10-12=0/1626, 9-10=-69/41 318/101, 3-13=-398/0, 3-12=-20/50 =0/984, 7-10=0/1068	5=-1133/47, 5-6=-1471/62,	, 6-7=-1709/40,							
 2) Wind: ASCE 7-16; W MWFRS (envelope) 3) Provide adequate di 4) This truss has been 5) * This truss has bee 6) Refer to girder(s) for 7) Provide mechanical 8) This truss is designer referenced standard 	a loads have been considered for this /ult=115mph (3-second gust) Vasd=5 ; cantilever left and right exposed ; er rainage to prevent water ponding. designed for a 10.0 psf bottom chord n designed for a live load of 20.0psf of vottom chord and any other members r truss to truss connections. connection (by others) of truss to be ad in accordance with the 2018 Interr I ANSI/TPI 1. resentation does not depict the size of	1mph; TCDL=6.0psf; BCDL d vertical left and right expo live load nonconcurrent wit in the bottom chord in all ar aring plate capable of withst ational Residential Code se	osed; Lumber DOL=1.60 plate g th any other live loads. eas where a rectangle 3-6-0 tall tanding 100 lb uplift at joint(s) 9. cctions R502.11.1 and R802.10.	grip DOL=1.60 II by 2-0-0 wide .2 and	S SCO	MISSOLIA VIT M. VIER				



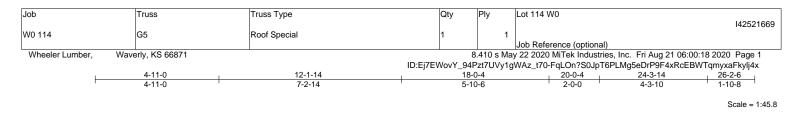
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

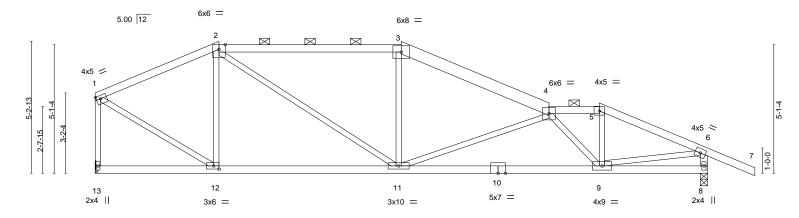


	6-6-3	<u>10-6-11</u> 4-0-8	<u>16-5-1</u> 5-10-6	18-5-1	24-3-14 5-10-13				
Plate Offsets (X,Y)	[1:Edge,0-2-12], [6:0-3-0,0-1-12], [12:0-		0-10-6	2-0-0	5-10-13				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.62 WB 0.82 Matrix-S	Vert(LL) -0.12 9	9-11 >999 240 8 n/a n/a	PLATES MT20 Weight: 101 lb	GRIP 197/144 FT = 10%			
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 3-4: 2x6 SPF No.2 BRACING- TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-3 max.): 2-3, 4-5. BOT CHORD 2x4 SPF No.2 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins (4-8-3 max.): 2-3, 4-5. WEBS 2x3 SPF No.2 *Except* 6-8: 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.									
Max H Max U	te) 13=Mechanical, 8=0-3-8 Horz 13=-110(LC 6) Jplift 8=-45(LC 9) Grav 13=1077(LC 1), 8=1231(LC 1)								
TOP CHORD 1-2= 1-13 BOT CHORD 11-1 WEBS 2-12	2=-321/59, 2-11=-24/483, 4-11=-735/92, 4	l-5=-1525/44, 5-6=-1749/	25,						
 2) Wind: ASCE 7-16; MWFRS (envelope) 3) Provide adequate c 4) This truss has beer 5) * This truss has beer will fit between the 6) Refer to girder(s) fc 7) Provide mechanica 8) This truss is design referenced standard 	WEBS 2-12=-321/59, 2-11=-24/483, 4-11=-735/92, 4-9=-540/43, 5-9=0/410, 1-12=0/988, 6-9=0/1313								









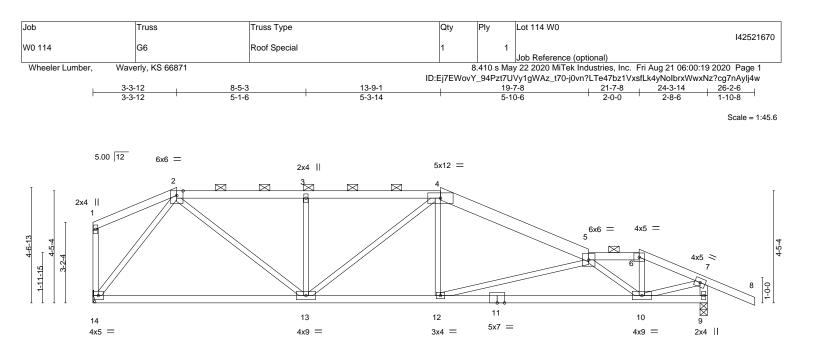
 	<u>4-11-0</u> 4-11-0	<u>12-1-14</u> 7-2-14	18-0		20-0-4	24-3-14 4-3-10		
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [12:0-2-8,0-1-8]	1-2-14	3-11	5-0	2-0-0	4-3-10		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.55 BC 0.67 WB 0.70 Matrix-S	DEFL. in Vert(LL) -0.11 Vert(CT) -0.25 Horz(CT) 0.04 Wind(LL) 0.04	9-11 >999 9-11 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 98 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* BRACING- TOP CHORD 2-3: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 2-3, 4-5. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2 *Except* 6-8: 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.								
Max Ho Max Up	e) 13=Mechanical, 8=0-3-8 brz 13=-110(LC 6) blift 13=-3(LC 4), 8=-39(LC 5) rav 13=1077(LC 1), 8=1231(LC 1)							
TOP CHORD 1-2=-' 6-8=- BOT CHORD 11-12	Comp./Max. Ten All forces 250 (lb) or 1007/45, 2-3=-1396/48, 3-4=-1560/37, 4 1194/51 =0/893, 9-11=0/2020 -417/82, 2-11=-19/660, 4-11=-675/94, 4 /1437	I-5=-1489/21, 5-6=-1692/7	7, 1-13=-1040/22,					
 Wind: ASCE 7-16; Vi MWFRS (envelope); Provide adequate drr. This truss has been of truss has been of the truss has been of the trus has been of trus has been of trus has been of trus has been of trus has been of trus has been	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m cantilever left and right exposed ; end v ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin d in accordance with the 2018 Internation ANSI/TPI 1. esentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= ertical left and right expose e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	sed; Lumber DOL=1.60 p any other live loads. as where a rectangle 3-6 nding 100 lb uplift at join tions R502.11.1 and R8	olate grip DOL=1. 6-0 tall by 2-0-0 w ht(s) 13, 8. 02.10.2 and		841	MISSOUR DTT M. EVIER	



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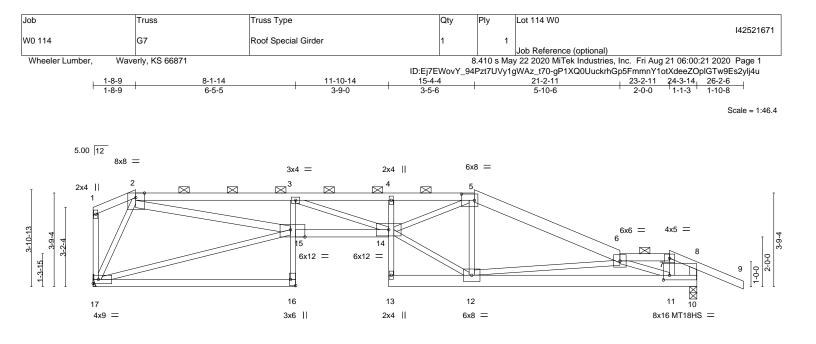
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F			3-9-1	<u>19-7-8</u> 5-10-6	<u>21-7-8</u> <u>24-3-14</u> <u>2-0-0</u> <u>2-8-6</u>
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL Lumber DOL	-0-0 CSI. 1.15 TC 0.37 1.15 BC 0.73 YES WB 0.79 114 Matrix-S	Vert(CT) -0. Horz(CT) 0.	in (loc) I/defl L/d 16 13-14 >999 360 34 13-14 >854 240 05 9 n/a n/a 06 10-12 >999 240	PLATES GRIP MT20 197/144 Weight: 97 lb FT = 10%
4-5: 2x6 BOT CHORD 2x4 SP WEBS 2x3 SP	F No.2 *Except* 5 SPF No.2 F No.2 F No.2 *Except* 4 SPF No.2		BRACING- TOP CHORD BOT CHORD	except end verticals, and	directly applied or 4-7-6 oc purlins, 2-0-0 oc purlins (4-6-3 max.): 2-4, 5-6. ed or 10-0-0 oc bracing, Except:
Max Ho Max Up	e) 14=Mechanical, 9=0-3-8 prz 14=-139(LC 4) plift 14=-143(LC 4), 9=-189(rav 14=1077(LC 1), 9=1231	_C 5)			
TOP CHORD 2-3=-79=-79=-79=-79=-70 BOT CHORD 13-14 WEBS 2-13=70	1480/263, 3-4=-1478/261, 4 1223/173 =-47/703, 12-13=-129/1564	4-12=0/372, 5-12=-706/207, 5-10=	=-1495/125,		
 Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 Provide adequate dra 4) This truss has been will fit between the build 6) Refer to girder(s) for 7) Provide mechanical 14=143, 9=189. This truss is designe referenced standard 	gable end zone; cantilever le ainage to prevent water pon designed for a 10.0 psf botto d designed for a live load of j bottom chord and any other n truss to truss connections. connection (by others) of tru d in accordance with the 20 ANSI/TPI 1.	Vasd=91mph; TCDL=6.0psf; BCD ft and right exposed ; end vertical ding. m chord live load nonconcurrent w 20.0psf on the bottom chord in all a	left and right exposed; L with any other live loads. areas where a rectangle standing 100 lb uplift at j sections R502.11.1 and l	umber DOL=1.60 plate 3-6-0 tall by 2-0-0 wide oint(s) except (jt=lb) R802.10.2 and	SCOTT M. SEVIER NUMBER PE-2001018807





<u>⊢ 1-8</u> 1-8		11-10-14 3-9-0	15-4-4 3-5-6	<u>21-2-11</u> 5-10-6	23-2-11 24-3-14 2-0-0 1-1-3				
Plate Offsets (X,Y)	[2:0-4-3,Edge], [5:0-6-4,0-3-0], [10:0-3-0),0-2-4], [15:0-7-0,Edge],	[16: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 0.78		14-15 >854 360	MT20 197/144				
TCDL 10.0	Lumber DOL 1.15	BC 0.69		14-15 >474 240	MT18HS 197/144				
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.29						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.25	14-15 >999 240	Weight: 114 lb FT = 10%				
LUMBER- TOP CHORD 2x4 SI	PF No.2 *Except*		BRACING- TOP CHORD	Structural wood sheathing d	irectly applied or 4-8-13 oc purlins,				
	x4 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2				0-0 oc purlins (3-0-14 max.): 2-5, 6-7.				
BOT CHORD 2x3 S			BOT CHORD		or 10-0-0 oc bracing, Except:				
	: 2x4 SPF No.2, 14-15: 2x4 SPF 2100F 1 : 2x6 SPF No.2	.8E		6-0-0 oc bracing: 10-11.					
	PF No.2 *Except*								
	2x4 SPF No.2, 8-10: 2x4 SPF 2100F 1.8	E							
	ze) 10=0-3-8, 17=Mechanical								
	Horz 17=-139(LC 6)								
	Jplift 10=-266(LC 5), 17=-171(LC 4) Grav 10=1167(LC 1), 17=1075(LC 1)								
Wax									
	. Comp./Max. Ten All forces 250 (lb) or								
	-4045/668, 3-4=-4295/641, 4-5=-4238/63	39, 5-6=-2008/294, 6-7=-5	534/79,						
	-701/100, 8-10=-649/131	0/0404 40 44 07/500							
	i=-483/169, 14-15=-549/4094, 11-12=-34 7=-50/471, 2-15=-537/3592, 12-14=-204		10 740/160						
	2=-697/243, 6-11=-2163/390, 7-11=-86/38	, ,	-12=-742/102,						
0.2		2, 2 1200, 2							
NOTES-									
	e loads have been considered for this de								
	Vult=115mph (3-second gust) Vasd=91m								
arip DOL=1.60) gable end zone; cantilever left and right	exposed ; end vertical le	It and right exposed; Lun	nber DOL=1.60 plate	and the second				
	Irainage to prevent water ponding.				E OF MISS				
	plates unless otherwise indicated.				E SU SOL				
/ !	designed for a 10.0 psf bottom chord liv	e load nonconcurrent with	n any other live loads.		SCOTT M.				
	en designed for a live load of 20.0psf on t	he bottom chord in all are	eas where a rectangle 3-6	6-0 tall by 2-0-0 wide	SEVIER V				
	bottom chord and any other members.								
	or truss to truss connections. I connection (by others) of truss to bearin	a plata conchia of withot	anding 100 lb unlift at joir	ot(a) avaant (it_lb)	4X 1 HS AND				
10=266, 17=171.	r connection (by others) of truss to bearing	ig plate capable of withsia	anding 100 ib upint at joir	ii(s) except (it=ib)	NUMBER AND				
	ed in accordance with the 2018 Internation	onal Residential Code sec	ctions R502.11.1 and R8	02.10.2 and					
referenced standar	d ANSI/TPI 1.				PE-2001018807				
	epresentation does not depict the size or				A CON B				
	r connection device(s) shall be provided s				ONAL EL				
	ord, and 167 lb down and 873 lb up at 23 sponsibility of others.	3-1-11 on bottom chord.	The design/selection of s	such connection	Amos				
	E(S) section, loads applied to the face of	the truss are noted as fro	ont (F) or back (B)		August 21,2020				
Continued on page 2									
LOAD CASE(S) Star									
	/ design parameters and READ NOTES ON THIS AND								
a truss system. Befor	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. Bra	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 sy	stems, see ANSI/TPI	Quality Criteria, DSB-89 and		16023 Swingley Ridge Rd				
Safety Information	available from Truss Plate Institute, 2670 Crain Hig	hway, Suite 203 Waldorf, MD 20	0601		Chesterfield, MO 63017				

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
W0 114	G7	Roof Special Girder	1	1	142521671
W0 114	01		'	'	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.410 s May	y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:21 2020 Page 2
		ID:Ej7E	WovY_94I	Pzt7UVy1c	WAz_t70-gP1XQ0UuckrhGp5FmmnY1otXdeeZOpIGTw9Es2ylj4u

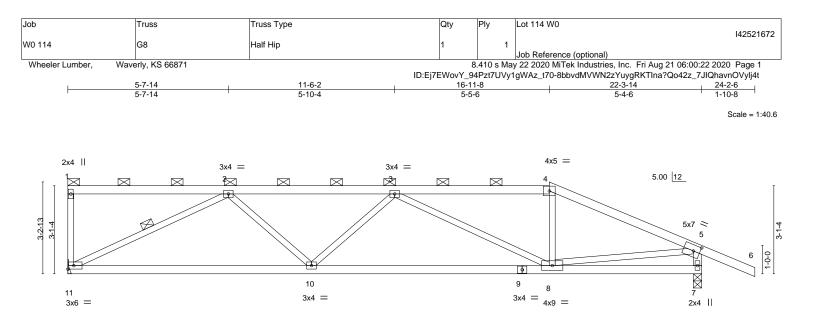
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 14-15=-20, 10-13=-20 Concentrated Loads (Ib)

Vert: 11=66(B)





 	<u>8-7-0</u> 8-7-0		<u>16-11-8</u> 8-4-8			<u>22-3-14</u> 5-4-6	
Plate Offsets (X,Y)	[5:0-2-12,0-2-8]					1	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.42 BC 0.75 WB 0.71 Matrix-S	Vert(CT) - Horz(CT)	in (loc) l/defl 0.14 10-11 >999 0.31 10-11 >859 0.05 7 n/a 0.05 8-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 79 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 S WEBS 2x3 S	PF No.2 PF No.2 PF No.2 *Except* x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end vert	icals, and 2-0- ectly applied o	rectly applied or 4-3-1 -0 oc purlins (4-0-11 r or 10-0-0 oc bracing. -11	
Max Max	ze) 11=Mechanical, 7=0-3-8 Horz 11=-104(LC 6) Uplift 11=-50(LC 4), 7=-60(LC 5) Grav 11=987(LC 1), 7=1141(LC 1)						
TOP CHORD 2-3=	:. Comp./Max. Ten All forces 250 (lb) or 1834/57, 3-4=-1381/48, 4-5=-1577/39, 5 1=-52/1505, 8-10=-57/1969	•					

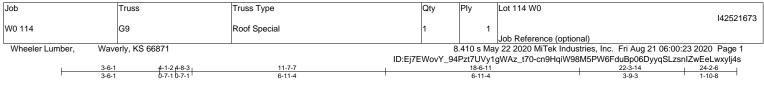
WEBS 2-11=-1649/122, 2-10=0/501, 3-8=-729/85, 4-8=0/316, 5-8=-9/1244

NOTES-

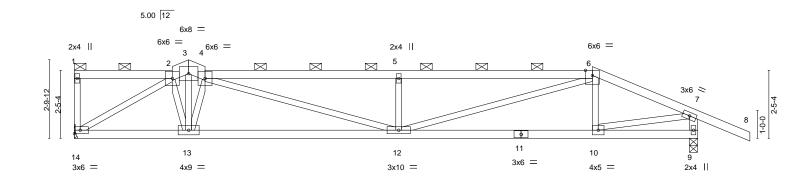
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) 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) 11, 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.







Scale = 1:41.3



	3-6-1 4-1-2 4-8-3 3-6-1 0-7-1 0-7-1	<u>11-7-7</u> 6-11-4		18-6-11 6-11-4	22-3-14 3-9-3
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 0.48 BC 0.57 WB 0.67 Matrix-S	Vert(LL) -0.15	0 12-13 >889 240 5 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 83 lb FT = 10%
2-3,3-4 BOT CHORD 2x4 SP WEBS 2x3 SP	PF No.2 *Except* : 2x6 SPF No.2, 4-6: 2x4 SPF 2100F 1. PF No.2 PF No.2 *Except* 4 SPF No.2	BE	BRACING- TOP CHORD BOT CHORD		directly applied or 4-6-15 oc purlins, -0-0 oc purlins (4-2-0 max.): 1-2, 4-6. d or 10-0-0 oc bracing.
Max H Max U	e) 14=Mechanical, 9=0-3-8 orz 14=-83(LC 4) plift 14=-11(LC 9), 9=-66(LC 5) rav 14=987(LC 1), 9=1141(LC 1)				
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 1438/40, 3-4=-1511/57, 4-5=-2692/132,				
BOT CHORD 13-14 WEBS 2-14=	1115/77 I=0/1339, 12-13=-18/1723, 10-12=-22/1 1565/27, 4-12=-64/1071, 5-12=-574/1: 19/550, 4-13=-960/113, 2-13=-14/586		32/1389,		

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;

MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) 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) 14, 9.

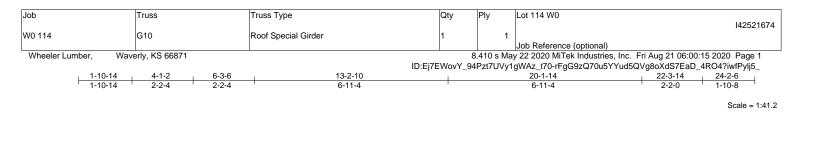
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

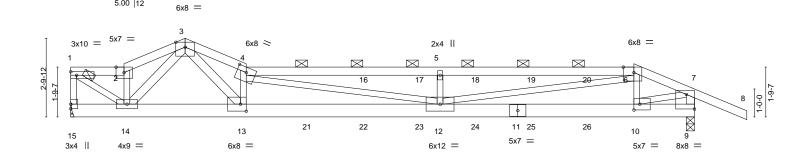
referenced standard ANSI/TPI 1.

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









1-10-14	6-3-6	<u>13-2-10</u> 6-11-4		<u>20-1-14</u> 6-11-4	22-3-14
	[2:0-3-7,Edge], [4:0-4-0,0-2-3], [6:0-4		0:0-2-8,0-2-8], [13:0-2-8		2*2*0
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.98 BC 0.75 WB 0.98 Matrix-S	Vert(LL) -0.3 Vert(CT) -0.6 Horz(CT) 0.0	n (loc) I/defl L/d 5 12-13 >766 360 3 12-13 >418 240 5 9 n/a n/a 0 12-13 >880 240	PLATES GRIP MT20 197/144 Weight: 95 lb FT = 10%
4-6: 2x BOT CHORD 2x6 SP 9-11: 2 WEBS 2x3 SP	F No.2 *Except* 4 SPF 2400F 2.0E F 1650F 1.4E *Except* x6 SPF No.2 F No.2 *Except* 13,7-9: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	except end verticals, and	g directly applied or 2-7-14 oc purlins, 2-0-0 oc purlins (2-9-7 max.): 1-2, 4-6. ed or 10-0-0 oc bracing, Except:
Max H Max U	e) 15=Mechanical, 9=0-3-8 orz 15=-73(LC 4) plift 15=-177(LC 9), 9=-305(LC 9) rav 15=1143(LC 1), 9=1230(LC 1)				
TOP CHORD 1-15= 5-6=- BOT CHORD 13-14 WEBS 1-14=	Comp./Max. Ten All forces 250 (b) =-1051/170, 1-2=-1295/223, 2-3=-138 4374/949, 6-7=-1676/370, 7-9=-1311 =-237/1594, 12-13=-723/3941, 10-13 =-252/1563, 2-14=-609/119, 3-14=-57 =-185/542, 5-12=-537/258, 6-12=-587	0/251, 3-4=-4208/844, 4-5= /307 2=-323/1585 2/139, 3-13=-687/3358, 4-1	-4374/949, 3=-2157/522,		
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been will fit between the b 6) Refer to girder(s) for 7) Provide mechanical 15=177, 9=305. 8) This truss is designe referenced standard 9) Graphical purlin repr 10, Hanger(s) or other 10-6-7, 65 lb down down and 41 lb up lb down at 14-6-7, The design/selectic 11) In the LOAD CASE Continued on page 2 	esentation does not depict the size of connection device(s) shall be provide and 41 lb up at 12-6-7, 65 lb down a at 18-6-7 on top chord, and 250 lb d 19 lb down at 16-6-7, and 19 lb dow on of such connection device(s) is the (S) section, loads applied to the face	1mph; TCDL=6.0psf; BCDL: ght exposed ; end vertical le live load nonconcurrent with in the bottom chord in all are ational Residential Code set r the orientation of the purlir id sufficient to support concu- ind 41 lb up at 14-6-7, and own and 74 lb up at 8-6-2, n at 18-6-7, and 97 lb dowr responsibility of others.	Ift and right exposed; Lu h any other live loads. eas where a rectangle 3 anding 100 lb uplift at jo ctions R502.11.1 and R n along the top and/or b entrated load(s) 65 lb do 65 lb down and 41 lb up 19 lb down at 10-6-7, 1 n and 287 lb up at 20-1	mber DOL=1.60 plate -6-0 tall by 2-0-0 wide int(s) except (jt=lb) 802.10.2 and bottom chord. bown and 41 lb up at 9 lb down at 12-6-7, 19	SCOTT M. SEVIER NUMBER PE-2001018807 ESJONAL ENGLISH August 21,2020
LOAD CASE(S) Stand WARNING - Verify of Design valid for use o a truss system. Before building design. Braci is always required for fabrication, storage, d	dard design parameters and READ NOTES ON THIS hly with MITek® connectors. This design is bas use, the building designer must verify the app ng indicated is to prevent buckling of individual stability and to prevent collapse with possible p elivery, erection and bracing of trusses and trus available from Truss Plate Institute, 2670 Crain	ed only upon parameters shown, ar icability of design parameters and p truss web and/or chord members o ersonal injury and property damage s systems, see ANSUTPI	nd is for an individual building properly incorporate this designiny. Additional temporary and e. For general guidance regan I Quality Criteria, DSB-89 and	component, not n into the overall permanent bracing	16023 Swingley Ridge Rd Chesterfield, MO 63017

5.00 12

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
14/0 444	040	De ef Or e siel Oinder	4		142521674
W0 114	G10	Roof Special Girder	1	1	Job Reference (optional)
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS 66871			8.410 s Ma	y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:15 2020 Page 2
			ID:Ej7EWovY_9	4Pzt7UVy1	gWAz_t70-rFgG9zQ70u5YYud5QVg8oXdS7EaD_4RO4?iwfPylj5_

LOAD CASE(S) Standard

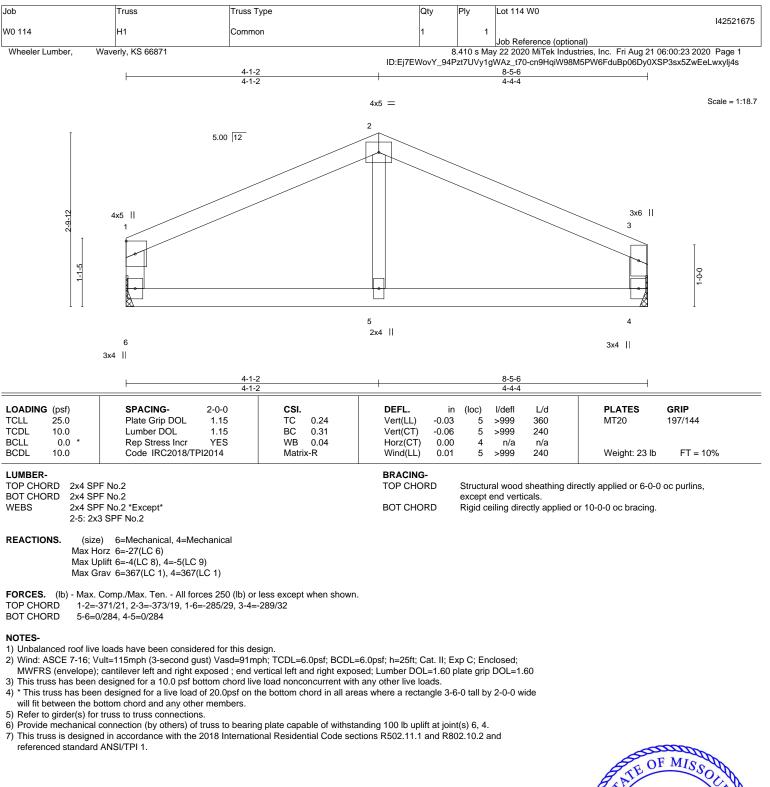
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

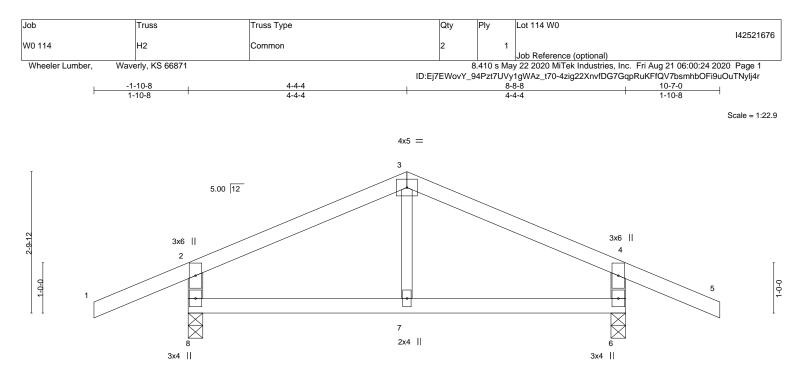
Vert: 10=14(B) 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B) 20=-2(B) 21=-250(B) 22=-0(B) 23=-0(B) 24=-0(B) 25=-0(B) 26=-0(B)











		<u>4-4-4</u> 4-4-4			8-8-8 4-4-4			
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.03	7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.05	7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01	7	>999	240	Weight: 29 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* WEBS 3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-23(LC 6) Max Uplift 8=-97(LC 8), 6=-97(LC 9) Max Grav 8=520(LC 1), 6=520(LC 1)

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

TOP CHORD 2-3=-343/51, 3-4=-343/51, 2-8=-447/123, 4-6=-447/123

NOTES-

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

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

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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

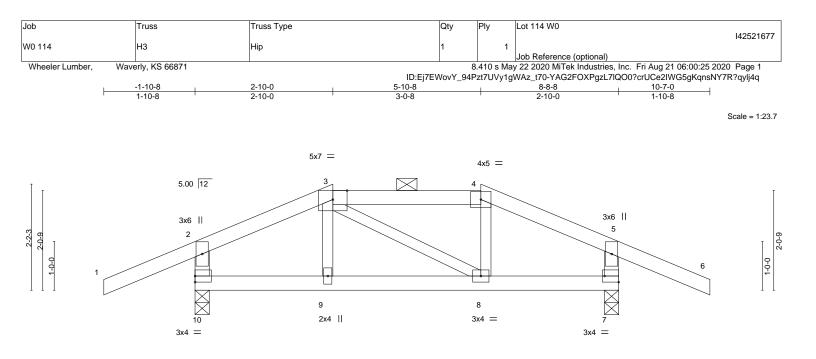


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





	⊢	2-10-0		5-10-8		-		-8-8		
Plate Offsets (X,Y)	[7:Edge,0-1-8]	2-10-0		3-0-8			2-	10-0		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/		CSI. TC 0.40 BC 0.30 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.07 0.00 0.02	8-9 7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 32 lb	GRIP 197/144 FT = 10%
				BRACING- TOP CHOR BOT CHOR		except	end verti	cals, and 2-	lirectly applied or 6-0-0 0-0 oc purlins (6-0-0 m or 10-0-0 oc bracing.	
Max He Max Uj	e) 10=0-3-8, 7=0-3-8 orz 10=-24(LC 6) plift 10=-107(LC 4), 7=- rav 10=520(LC 1), 7=5	-107(LC 5)								
TOP CHORD 2-3=-		-5=-360/48, 2-10	less except when shown. =-434/113, 5-7=-434/113							
NOTES-										

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

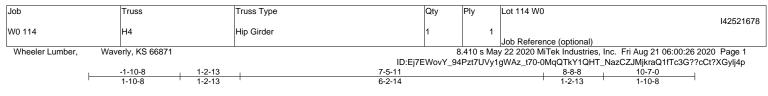
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=107, 7=107.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:23.7

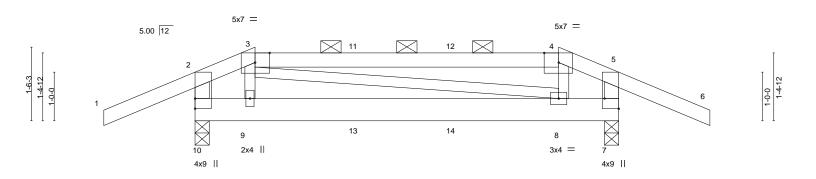


Plate Offsets (X,Y) [1-2-13 1-2-13 3:0-3-9,Edge], [4:0-3-9,Edge], [7:Edge,	0-3-8]	7-5-11 6-2-14				8-8-1 1-2-1		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.61 BC 0.19 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.00 -0.02	8-9 8-9 7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 38 lb	GRIP 197/144 FT = 10%
		· /	BRACING- TOP CHOR BOT CHOR		except	end verti	cals, and 2-0	rectly applied or 6-0-0)-0 oc purlins (6-0-0 m or 6-0-0 oc bracing.	
Max Ho Max Up) 10=0-3-8, 7=0-3-8 rrz 10=24(LC 7) Jift 10=-397(LC 29), 7=-397(LC 28) av 10=499(LC 45), 7=499(LC 44)								
TOP CHORD 2-3=-4 BOT CHORD 9-10=	Comp./Max. Ten All forces 250 (lb) or 401/415, 3-4=-350/289, 4-5=-395/413, 2 -348/375, 8-9=-297/380, 7-8=-336/362 500/127, 4-8=-517/139		32						
NOTES-	landa basa basa ayan idan difan di'a da								

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=397, 7=397.
- 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 12 lb up at 1-2-13, 50 lb down and 12 lb up at 3-4-4, and 50 lb down and 12 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord , and 141 lb down and 737 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 141 lb down and 737 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Continued on page 2



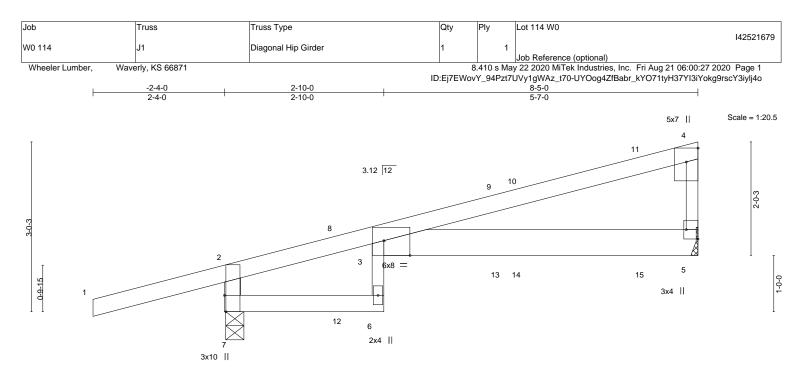


Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521678
W0 114	H4	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871		8	.410 s Ma	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:26 2020 Page 2

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:26 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-0MqQTkY1QHT_NazCZJMjkraQ1fTc3G??cCt?XGylj4p

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=53(B) 8=53(B)





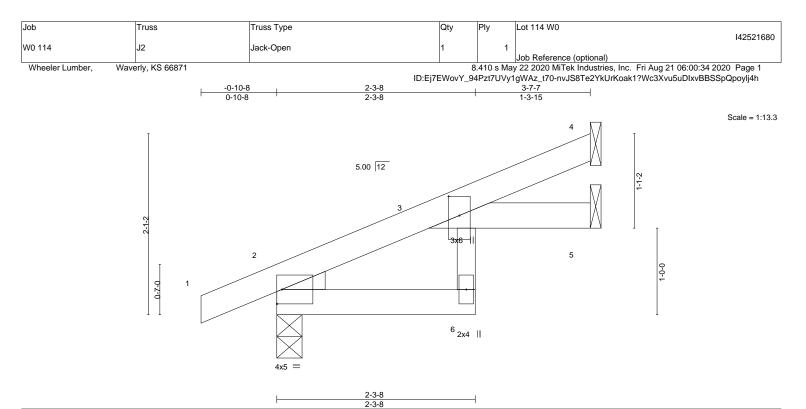
	0-0 <u>-5</u> 0-0-5	2-10-0 2-9-11	-	<u>8-5-0</u> 5-7-0	
Plate Offsets (X,Y)	[3:0-5-9,Edge], [4:Edge,0-2-8], [5:Edge,	0-2-8], [7:0-3-8,Edge]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.77 BC 0.59 WB 0.00 Matrix-R	DEFL. ii Vert(LL) -0.18 Vert(CT) -0.33 Horz(CT) 0.17 Wind(LL) 0.16	3 3>300 240 7 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 28 lb FT = 10%
BOT CHORD 2x4 SP 3-6: 2x WEBS 2x4 SP	F 2100F 1.8E F No.2 *Except* 3 SPF No.2, 3-5: 2x6 SPF No.2 F No.2 *Except* 3 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins, d or 6-0-0 oc bracing.
Max H Max U	e) 7=0-3-14, 5=Mechanical orz 7=109(LC 5) plift 7=-161(LC 4), 5=-109(LC 8) rav 7=577(LC 1), 5=481(LC 1)				
	Comp./Max. Ten All forces 250 (lb) or 563/174, 4-5=-260/100	less except when shown			
MWFRS (envelope) grip DOL=1.60 2) This truss has been 3) * This truss has been will fit between the b 4) Refer to girder(s) for	ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin	exposed ; end vertical lead re load nonconcurrent with the bottom chord in all are	ft and right exposed; Lui n any other live loads. has where a rectangle 3	mber DOL=1.60 plate -6-0 tall by 2-0-0 wide	
 6) This truss is designer referenced standard 7) Hanger(s) or other c 2-1-6, 63 lb down and down and 67 lb up a 	onnection device(s) shall be provided si d 36 lb up at 2-4-9, 108 lb down and 6 t 7-6-1 on top chord, and 18 lb down ar l 63 lb down and 27 lb up at 7-6-1 on b	ufficient to support concer 3 lb up at 4-11-5, and 97 nd 21 lb up at 2-1-6, 3 lb o	ntrated load(s) 72 lb dow lb down and 51 lb up at down at 2-4-9, 3 lb dow	vn and 134 lb up at 5-3-12, and 98 lb vn at 4-11-5, and 24 lb	STATE OF MISSOL
	S) section, loads applied to the face of t	he truss are noted as fron	t (F) or back (B).		1 Shoether ale month
Uniform Loads (plf)	alanced): Lumber Increase=1.15, Plate 0, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20	Increase=1.15			PE-2001018807

Vert: 8=35(B) 9=-40(F) 10=-4(B) 11=-62(F) 14=-16(B) 15=-63(F)

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



August 21,2020



OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.02	6	>999	360	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.04	6	>925	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	2014	Matrix	k-P	Wind(LL)	0.03	6	>999	240	Weight: 11 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=75(LC 8) Max Uplift 4=-52(LC 8), 2=-34(LC 8)

Max Grav 4=129(LC 1), 2=240(LC 1), 5=37(LC 3)

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

NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

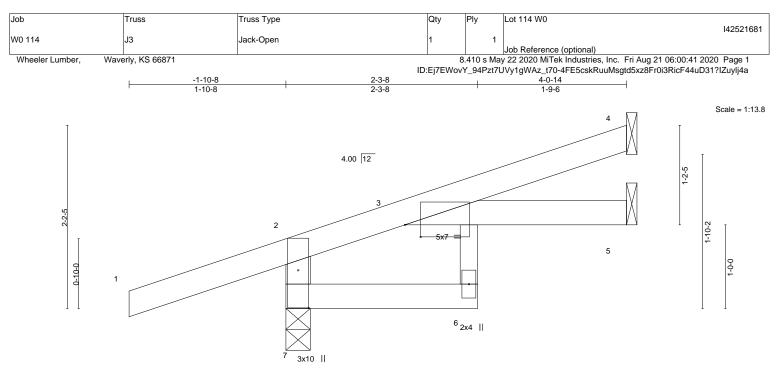
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





				1		2-3-8		1		4-0-14	1		
				ſ		2-3-8				1-9-6			
Plate Offsets ()	K,Y)	[3:0-2-4,0-1-12], [7:0-5-6	,0-1-8]										
LOADING (psi	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.	Ó	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	6	>999	360	MT20	197/144	
TCDL 10.	0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.04	6	>999	240			

BCLL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.02 Matrix-P	Horz(CT) 0.0 Wind(LL) 0.0	2 5 n/a n/a	Weight: 14 lb	FT = 10%
LUMBER-		2F No.2 2F No.2		BRACING- TOP CHORD	Structural wood sheathing di	rectly applied or 4-0-14 oc	purlins,
BOT CHOR WEBS	2x4 SP	P No.2 *Except* 3 SPF No.2		BOT CHORD	except end verticals. Rigid ceiling directly applied	or 6-0-0 oc bracing.	

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=79(LC 4) Max Uplift 7=-117(LC 4), 4=-39(LC 8) Max Grav 7=361(LC 1), 4=96(LC 1), 5=70(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-329/128

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.

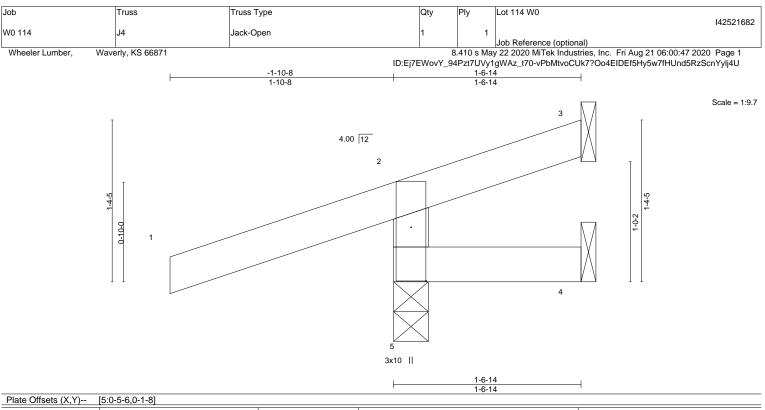
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 7=117.

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.







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 0.28	Vert(LL) 0.00	5	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00	4-5	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00	5	>999	240	Weight: 6 lb FT = 10%

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

Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=46(LC 4) Max Uplift 5=-143(LC 4), 3=-22(LC 1), 4=-16(LC 1)

Max Grav 5=306(LC 1), 3=16(LC 4), 4=18(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-262/142

TOP CHORD

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.

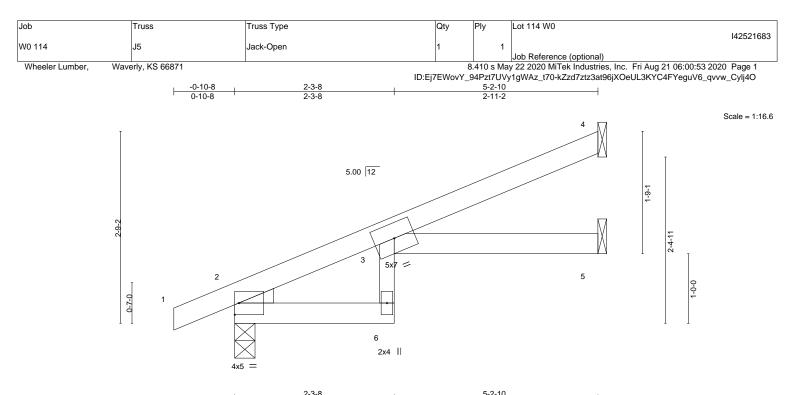
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 143

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.







				2-3-8				2-11-2				
Plate Offs	sets (X,Y)	[3:0-0-0,0-0-1]										
	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	0.48	Vert(LL)	-0.06	3	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	3	>583	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.06	3	>966	240	Weight: 15 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=102(LC 8) Max Uplift 4=-58(LC 8), 2=-44(LC 8), 5=-6(LC 8) Max Grav 4=135(LC 1), 2=304(LC 1), 5=87(LC 3)

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

NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

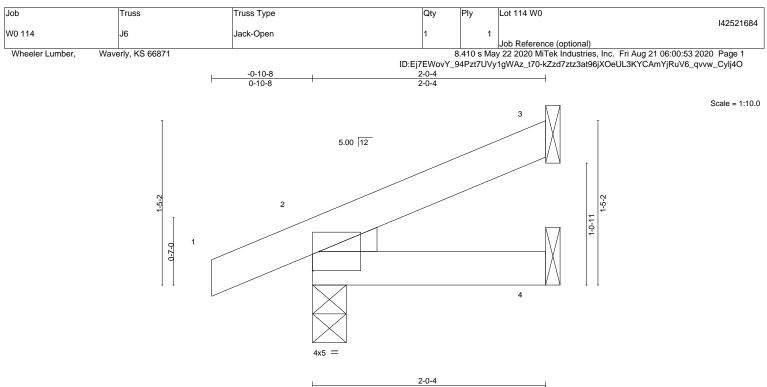
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-2-10 oc purlins.

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





			1	2-0-4	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00 2 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 2-4 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 6 lb FT = 10%	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=48(LC 8) Max Uplift 3=-33(LC 8), 2=-36(LC 4)

Max Grav 3=43(LC 1), 2=173(LC 1), 4=36(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- OF MISS SCOTT M. SEVIER NUMBER 6 PE-2001018807 HESSIONAL E

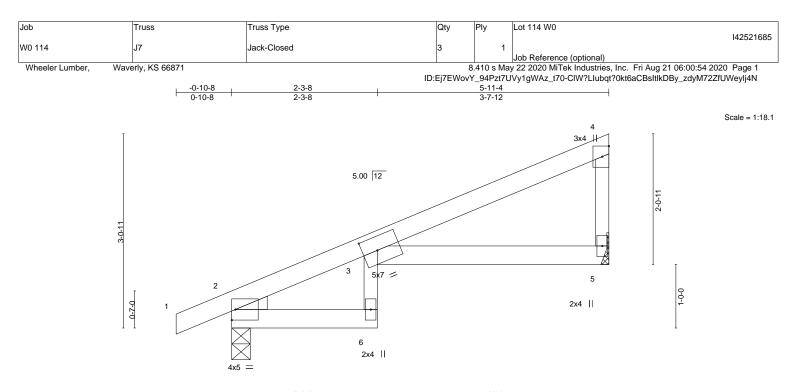
August 21,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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

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





		1	2-3-8	5-11-4	
		· · · · · · · · · · · · · · · · · · ·	2-3-8	3-7-12	
Plate Offsets (X,Y)	[3:0-2-12,0-2-9]				
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 0.60	Vert(LL) -0.10 6 >711 360	MT20 197/144

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.17

0.11

0.10

6 >397

5

6

n/a

>705

except end verticals.

240

n/a

240

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

Structural wood sheathing directly applied or 5-11-4 oc purlins,

L	U	IN	IR	F	R	-	

TCDL

BCLL

BCDL

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 3-6: 2x3 SPF No.2

 WEBS
 2x3 SPF No.2

 WEDGE

10.0

10.0

0.0

Left: 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=104(LC 5) Max Uplift 5=-61(LC 8), 2=-58(LC 8) Max Grav 5=250(LC 1), 2=334(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

NOTES-

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

BC

WB

Matrix-R

0.33

0.00

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

1.15

YES

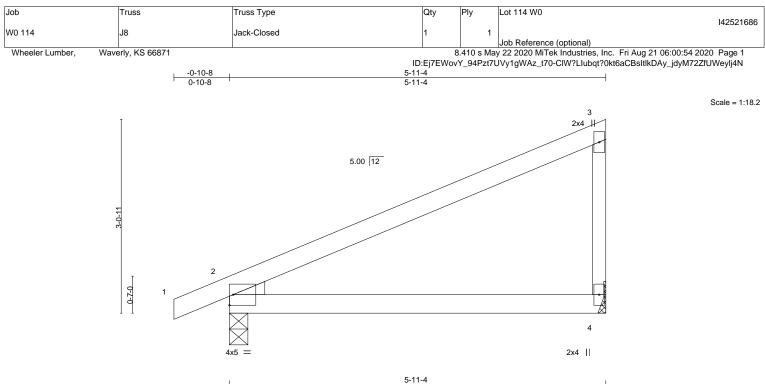
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of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



FT = 10%

Weight: 18 lb





				5-11-4					
LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15		DEFL. Vert(LL) -	in (loc -0.06 2-4	,	L/d 360	PLATES GRIP MT20 197/144	
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.35	Vert(CT) -	-0.13 2-4	4 >544 4 n/a	240 n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	- (-)	0.00	2 ****	240	Weight: 18 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

 WEDGE
 Left: 2x3 SPF No.2

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

Max Horz 2=120(LC 5) Max Uplift 4=-59(LC 8), 2=-60(LC 8) Max Grav 4=250(LC 1), 2=334(LC 1)

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

NOTES-

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

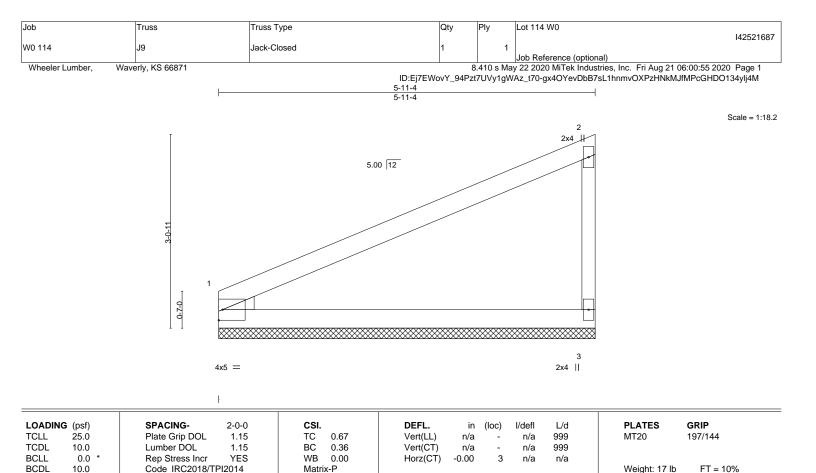


Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.





11	IM	BF	R-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 WEDGE
 Left: 2x3 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=5-11-4

(size) 3=5-11-4, 1=5-11-4 Max Horz 1=118(LC 5) Max Uplift 3=-62(LC 8), 1=-36(LC 8) Max Grav 3=263(LC 1), 1=263(LC 1)

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

NOTES-

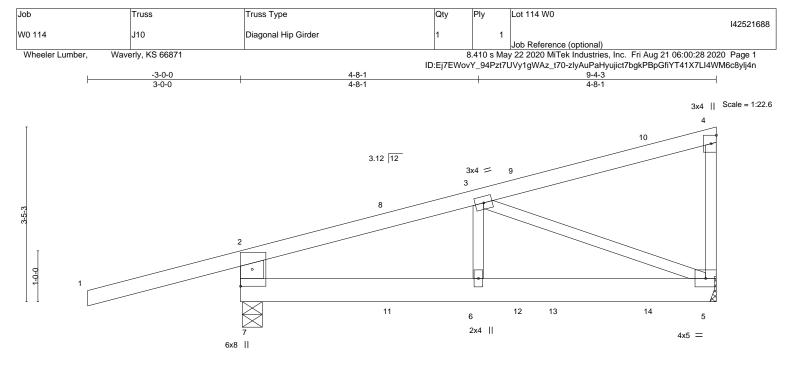
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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) 3, 1.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	0-0 <mark>-7</mark>	4-8-1	<u>9-4-3</u>
	0-0-7	4-7-10	4-8-1
LOADING (psf)	SPACING- 2-0-0		in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15		.05 5-6 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15		.08 5-6 >999 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.29 Horz(CT) 0	.00 5 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		.04 5-6 >999 240 Weight: 39 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-	
---------	--

- TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x6 SPF No.2

 WEBS
 2x3 SPF No.2 *Except*

 2-7: 2x6 SPF No.2
- 2-7: 2x6 SPF No.2 **REACTIONS.** (size) 7=0-4-11, 5=Mechanical
 - Max Horz 7=145(LC 5) Max Uplift 7=-266(LC 4), 5=-149(LC 8)
 - Max Grav 7=715(LC 1), 5=535(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-7=-554/247, 2-3=-563/132
- BOT CHORD 6-7=-165/481, 5-6=-165/481
- WEBS 3-5=-490/167

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=266, 5=149.
- 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) 55 lb down and 94 lb up at 2-11-15, 78 lb down and 36 lb up at 3-0-9, and 79 lb down and 54 lb up at 5-6-11, and 102 lb down and 86 lb up at 8-1-6 on top chord, and 10 lb down and 16 lb up at 2-11-15, 9 lb down and 7 lb up at 3-0-9, 16 lb down and 2 lb up at 5-6-11, and 168 lb down and 75 lb up at 6-2-15, and 40 lb down at 8-1-6 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

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 5-7=-20 Concentrated Loads (lb)

Vert: 8=26(B) 10=-54(B) 11=7(F) 12=2(B) 13=-168(F) 14=-25(B)

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

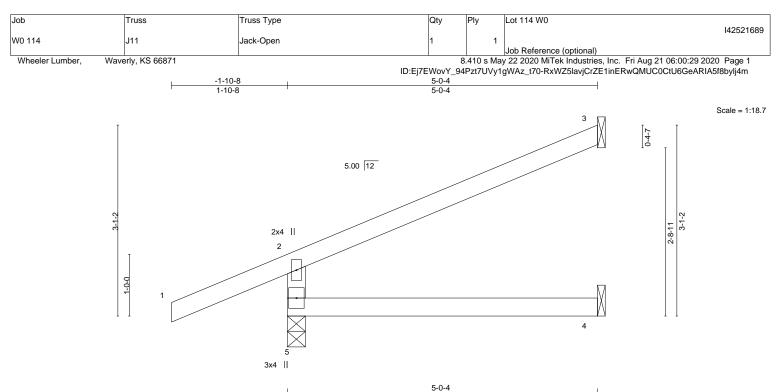


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





			5-0-4	1
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL. TC 0.30 Vert(LL	in (loc) l/defl L/d -0.02 4-5 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20 Vert(CT	-0.05 4-5 >999 240	10//144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Horz(C ⁻ Matrix-R Wind(Ll		Weight: 15 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=101(LC 8) Max Uplift 5=-66(LC 4), 3=-75(LC 8)

Max Grav 5=388(LC 1), 3=138(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-340/110

NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

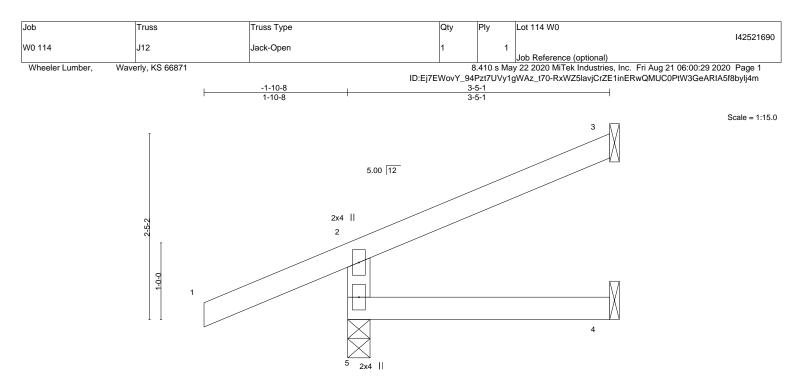


Structural wood sheathing directly applied or 5-0-4 oc purlins,

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

except end verticals.





1			3-5-1
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 11 lb FT = 10%

LUMBER-

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

WEBS 2x4 SPF No.2 BRACING-TOP CHORD

BOT CHORD

2 5 4

Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=73(LC 8) Max Uplift 5=-71(LC 4), 3=-48(LC 8) Max Grav 5=330(LC 1), 3=77(LC 1), 4=57(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-289/94

NOTES-

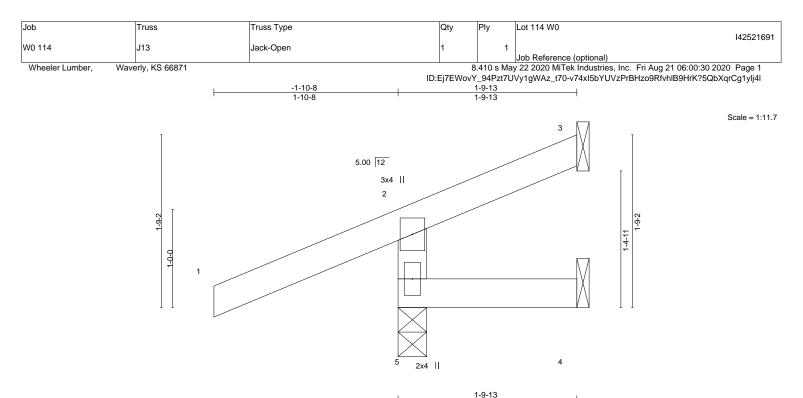
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







						1	1	-9-13		1		
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	912014	Matri	k-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=53(LC 5) Max Uplift 5=-87(LC 4), 3=-14(LC 8), 4=-7(LC 1) Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-262/96

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILER KEERENCE PAGE MIL-7475 fev. or 19/2/2/0/ DEFORE 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals. BOT CHORD

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

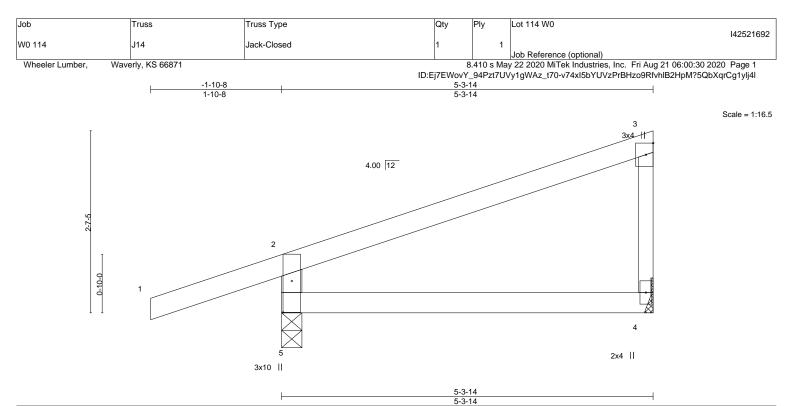


Plate Offsets (X,Y)	[5:0-5-6,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.03 4-5 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.05 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 17 lb FT = 10%
LUMBER-			BRACING-

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals.

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

 3-4: 2x3 SPF No.2
 SPF No.2
 BOT CHORD

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=112(LC 5) Max Uplift 5=-136(LC 4), 4=-43(LC 8)

Max Grav 5=398(LC 1), 4=200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-352/170

NOTES-

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

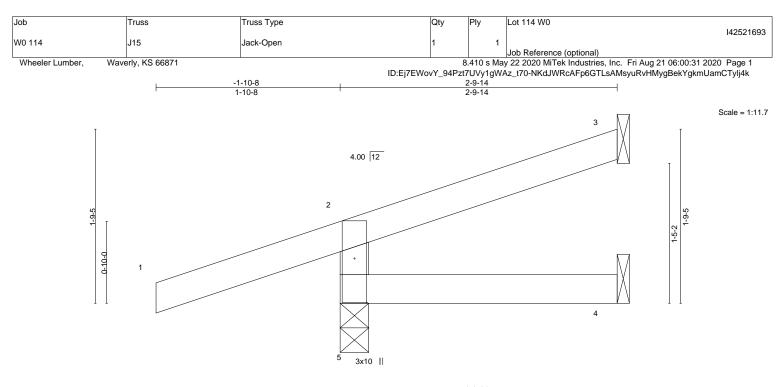
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=136.

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.







			<u>2-9-14</u> 2-9-14	———————————————————————————————————————					
Plate Offsets (X,Y) [5:0-5-6,0-1-8]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d PL	ATES GRIP					
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 4-5 >999 360 MT	20 197/144					
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00 4-5 >999 240						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 4-5 >999 240 We	ight: 9 lb FT = 10%					

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

BRACING-TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. BOT CHORD

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

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

Max Horz 5=62(LC 4) Max Uplift 5=-124(LC 4), 3=-31(LC 8)

Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

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.

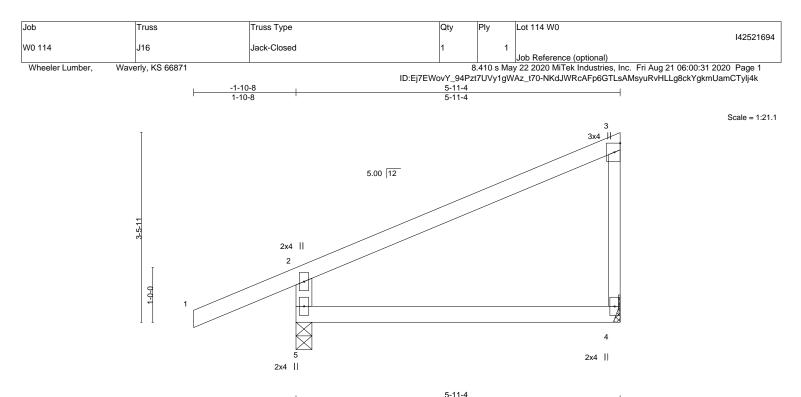
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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 except (jt=lb) 5 = 124
- 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.







			5-11-4 5-11-4		
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 0.38	Vert(LL) -0.04 4-5 >999	360 MT20 197/14	4
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.09 4-5 >773	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02 4-5 >999	240 Weight: 19 lb FT :	= 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0

REACTIONS

(size) 5=0-3-8, 4=Mechanical Max Horz 5=150(LC 5) Max Uplift 5=-85(LC 8), 4=-56(LC 8)

Max Grav 5=423(LC 1), 4=231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-373/129

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, 4.

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

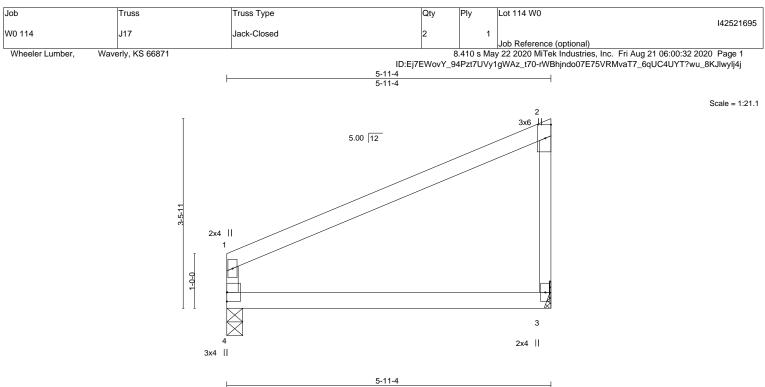
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.



August 21,2020



					5-11-4						
LOADIN	G (psf)	SPACING- 2-0-	csi.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC	0.50	Vert(LL)	-0.05	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC	0.28	Vert(CT)	-0.10	3-4	>707	240		
BCLL	0.0 *	Rep Stress Incr YES	S WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix	-R	Wind(LL)	0.02	3-4	>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. 4=0-3-8, 3=Mechanical (size) Max Horz 4=133(LC 5) Max Uplift 4=-33(LC 8), 3=-63(LC 8)

Max Grav 4=258(LC 1), 3=258(LC 1)

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

NOTES-

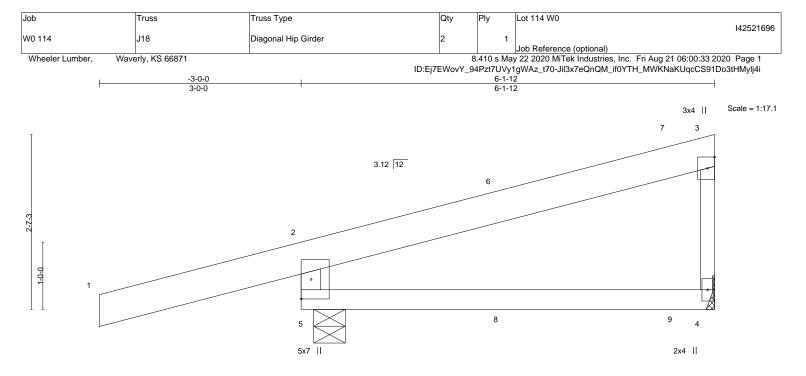
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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, 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.
- OF MISS SCOTT M. SEVIER NUMBER õ PE-2001018807 SSIONAL F August 21,2020

Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.





		0 <u>-2-4</u> 0-2-4	<u>6-1-12</u> 5-11-8	l
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.05 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.09 4-5 >764 240	WI120 197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a	Weight: 26 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.02 4-5 >999 240	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x6 SPF 1650F 1.4E
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-5-10, 4=Mechanical

Max Horz 5=108(LC 5) Max Uplift 5=-212(LC 4), 4=-54(LC 8)

Max Grav 5=926(LC 41), 4=229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-849/249

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=212.
- 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.
- Load case(s) 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 36 lb up at 3-0-9, and 68 lb down and 65 lb up at 3-0-14, and 67 lb down and 54 lb up at 5-7-10 on top chord, and 9 lb down and 7 lb up at 3-0-9, and 10 lb down and 16 lb up at 3-0-14, and 24 lb down at 5-7-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

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=-20(B) 8=7(F) 9=-8(B)

Continued on page 2

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



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

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

except end verticals.



[ob	Truss	Truss Type	Qty	Ply	Lot 114 W0
						142521696
	V0 114	J18	Diagonal Hip Girder	2	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871		8	.410 s May	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:33 2020 Page 2

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-Jil3x7eQnQM_if0YTH_MWKNaKUqcCS91Do3tHMylj4i

LOAD CASE(S)

- 40) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)

Vert: 1=-250 6=1(B) 7=-20(B) 8=22(F=7, B=16) 9=-8(B) 41) User defined: Lumber Increase=1.15, Plate Increase=1.15

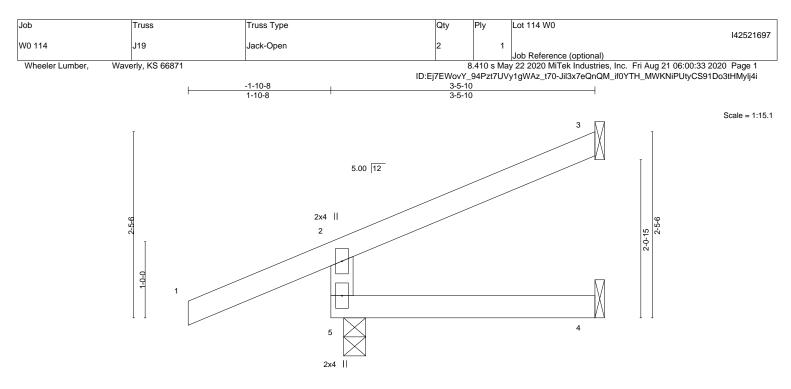
 User defined: Lumb Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 1=-250 7=-20(B) 8=7(F) 9=-8(B)





		3-3-10	
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.28 BC 0.08 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.01 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=74(LC 8) Max Uplift 5=-71(LC 4), 3=-49(LC 8) Max Grav 5=332(LC 1), 3=79(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-290/95

NOTES-

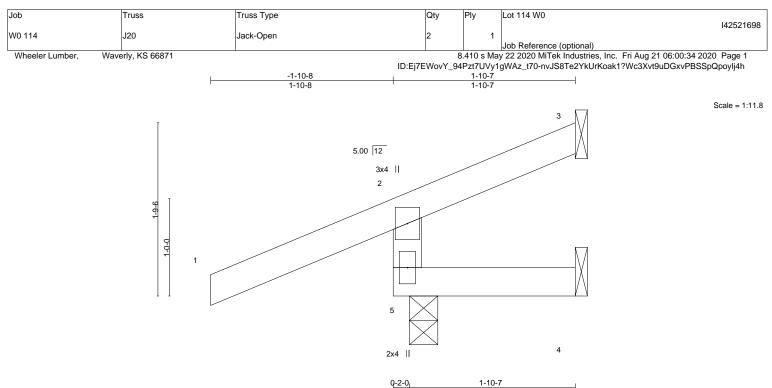
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







				0-2-0 ¹	1	-8-7			
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 0.28	Vert(LL)	0.00 4-5	5 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	0.00 4-5	5 >999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01 3	3 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.00 5	5 >999	240	Weight: 7 lb	FT = 10%

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

2x4 SPF No.2

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=53(LC 5) Max Uplift 3=-16(LC 8), 4=-6(LC 1), 5=-86(LC 4) Max Grav 3=5(LC 19), 4=25(LC 3), 5=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-262/95

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, 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.

OF MISS SCOTT M. SEVIER NUMBER ro, PE-2001018807 SSIONAL E August 21,2020

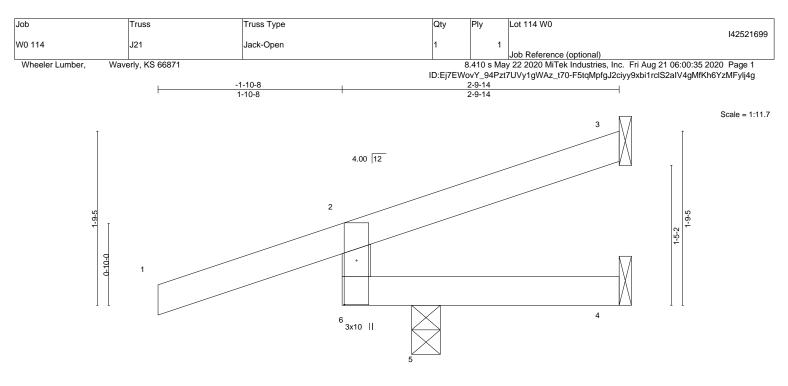
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILER KEERENCE PAGE MIL-7475 fev. or 19/2/2/0/ DEFORE USE. Design valid for use only with MITek® connectors. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-7 oc purlins, except end verticals.

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



0-8-8	2-9-14	1
0-8-8	2-1-6	1

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	-0.01	4-5	>999	240	Weight: 9 lb	FT = 10%

|--|

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

Plate Offsets (X Y)-- [6:0-5-6 0-1-8]

BRACING-TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. BOT CHORD

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

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

Max Horz 5=62(LC 4) Max Uplift 3=-25(LC 8), 4=-78(LC 1), 5=-187(LC 4) Max Grav 3=25(LC 1), 4=55(LC 4), 5=430(LC 1)

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

TOP CHORD 2-6=-300/150

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.

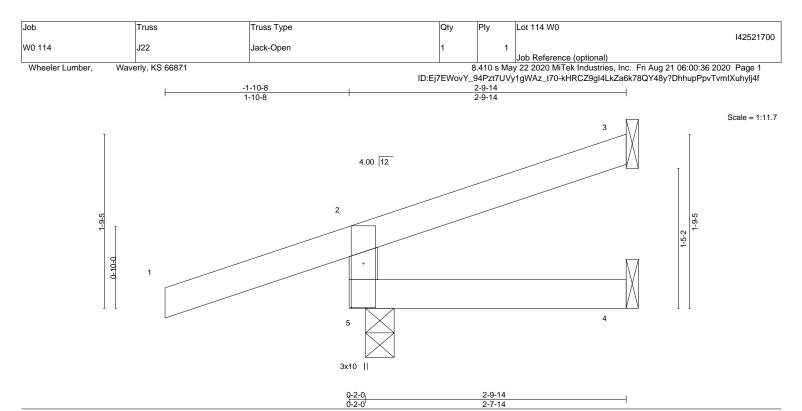
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 187

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.







LOADING (psf) ICLL 25.0 ICDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.28 BC 0.07 WB 0.00	DEFL. in Vert(LL) 0.00 Vert(CT) -0.00 Horz(CT) -0.00	(loc) 4-5 4-5	l/defl L/d >999 360 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	WB 0.00 Matrix-R	Wind(LL) -0.00	3 4-5	n/a n/a >999 240	Weight: 9 lb FT = 10%

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

Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

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

Max Horz 5=62(LC 4) Max Uplift 5=-124(LC 4), 3=-31(LC 8)

Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

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

TOP CHORD 2-5=-273/139

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.

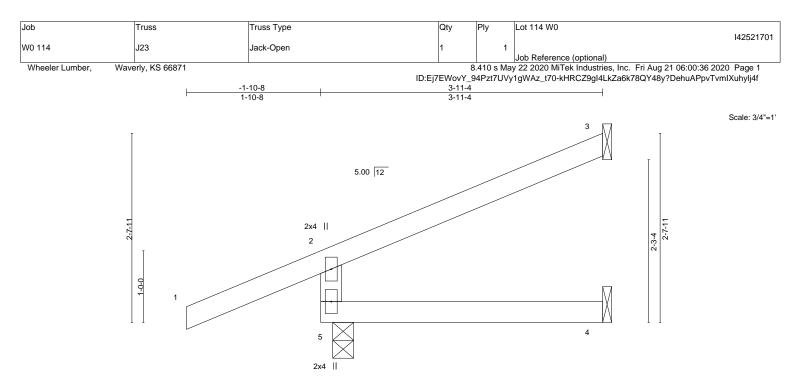
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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 except (jt=lb) 5 = 124
- 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.







		0 <mark>-2-0</mark> 0-2-0	<u>3-11-4</u> <u>3-9-4</u>	I			
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 0.28 BC 0.11 WB 0.00 Matrix-R	DEFL. in (loc) l/det Vert(LL) -0.01 4-5 >999 Vert(CT) -0.02 4-5 >999 Horz(CT) -0.01 3 n/r Wind(LL) 0.01 4-5 >999	99 360 MT20 197/144 99 240 /a n/a			

BRACING-

LUMBER-

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

WEBS 2x4 SPF No.2

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=82(LC 8) Max Uplift 5=-69(LC 4), 3=-57(LC 8) Max Grav 5=348(LC 1), 3=98(LC 1), 4=67(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-305/97

NOTES-

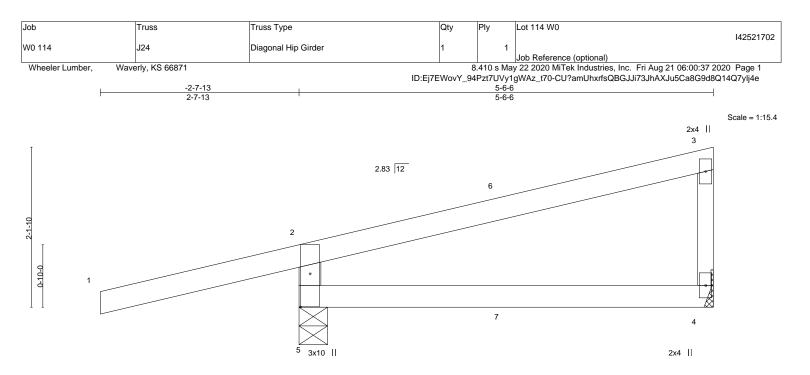
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







	5-6-6	1
1	5-6-6	

Plate Offsets (X,Y)	[5:0-5-5,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.03	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.06	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.02	4-5	>999	240	Weight: 18 lb	FT = 10%
I UMBER-			BRACING-					

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=88(LC 5)

Max Uplift 5=-186(LC 4), 4=-31(LC 8) Max Grav 5=485(LC 1), 4=186(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-429/217

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 14 lb up at 2-9-8, and 70 lb down and 14 lb up at 2-9-8 on top chord, and 14 lb down and 16 lb up at 2-9-8, and 14 lb down and 16 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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





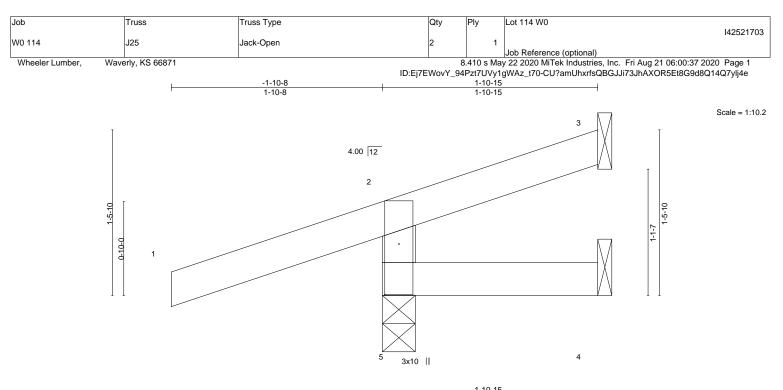


Plate Off	Plate Offsets (X,Y) [5:0-5-6,0-1-8]							1-10-1	-			
	5013 (7,1)											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

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

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

Max Horz 5=51(LC 4) Max Uplift 5=-134(LC 4), 3=-13(LC 8), 4=-7(LC 1)

Max Grav 5=302(LC 1), 3=5(LC 18), 4=26(LC 3)

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

TOP CHORD 2-5=-260/138

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.

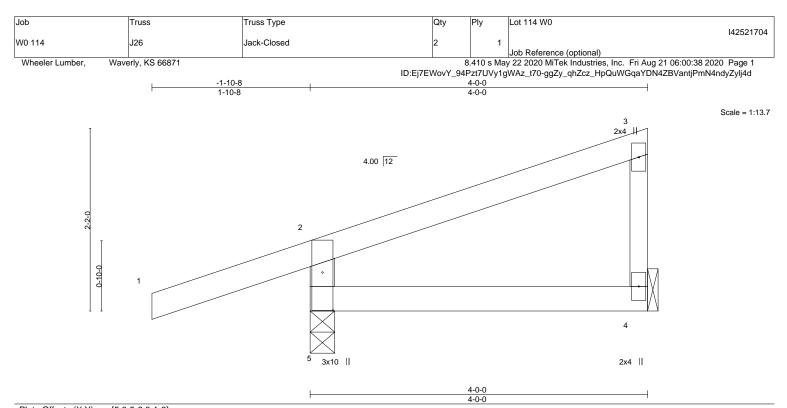
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=134.

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







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 0.28	Vert(LL) -0.01	4-5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02	4-5	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	4-5	>999 240	Weight: 13 lb FT = 10%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 TOP CHORD
 Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.

 BOT CHORD
 2x4 SPF No.2 *Except*
 BOT CHORD
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

 3-4: 2x3 SPF No.2
 3-4: 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=93(LC 5) Max Uplift 5=-132(LC 4), 4=-27(LC 8)

Max Grav 5=348(LC 1), 4=131(LC 1)

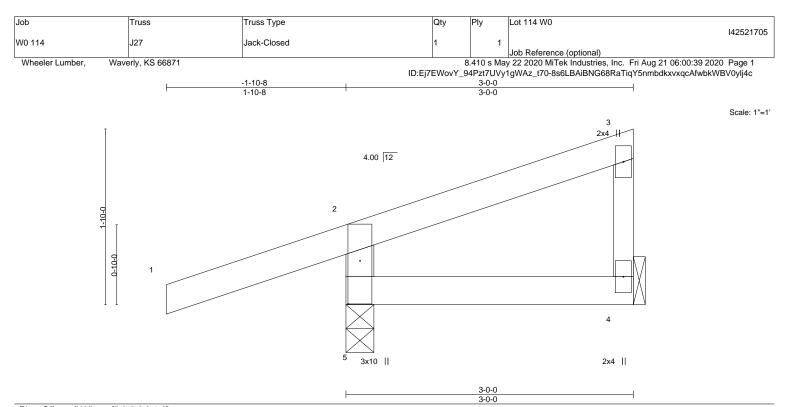
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-308/154

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=132.
- 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.







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 0.28	Vert(LL)	-0.00	4-5	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.00	5	>999	240	Weight: 11 lb FT = 10%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.

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

 3-4: 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=78(LC 5) Max Uplift 5=-133(LC 4), 4=-17(LC 5)

Max Grav 5=317(LC 1), 4=72(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-279/145

NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

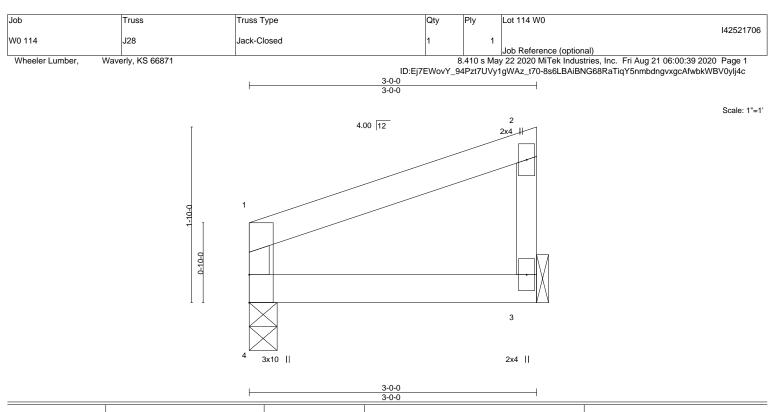
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=133.

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.







		· · · · · · · · · · · · · · · · · · ·		3-0-0
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 0.10	Vert(LL) -0.00 3-4 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 3-4 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4 >999 240 Weight: 8 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. 4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5)

Max Uplift 4=-19(LC 4), 3=-29(LC 8) Max Grav 4=126(LC 1), 3=126(LC 1)

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

NOTES-

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

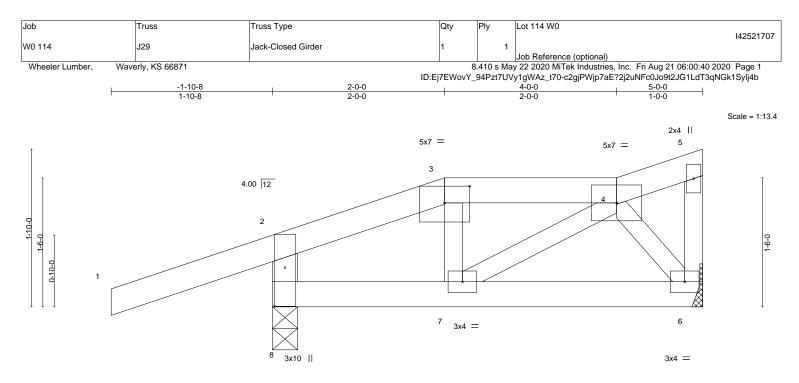


Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals.





							+ 4-0-0 2-0-0				5-0-0	
Plate Off	sets (X,Y)	[3:0-3-8,0-2-5], [8:0-5-6,0)-1-8]									
	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	0.32	Vert(LL)	-0.01	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		

Wind(LL)

LU	M	B	F	R	-	

BCDL

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

10.0

2x3 SPF No.2 *Except* 2-8: 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

0.00

>999

7

240

Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 6-0-0 oc bracing.

Weight: 19 lb

REACTIONS. (size) 8=0-3-8, 6=Mechanical Max Horz 8=78(LC 5) Max Uplift 8=-166(LC 4), 6=-52(LC 8)

Max Grav 8=364(LC 1), 6=170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-313/160

Code IRC2018/TPI2014

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-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) 6 except (jt=lb) 8=166.
- 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) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up 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

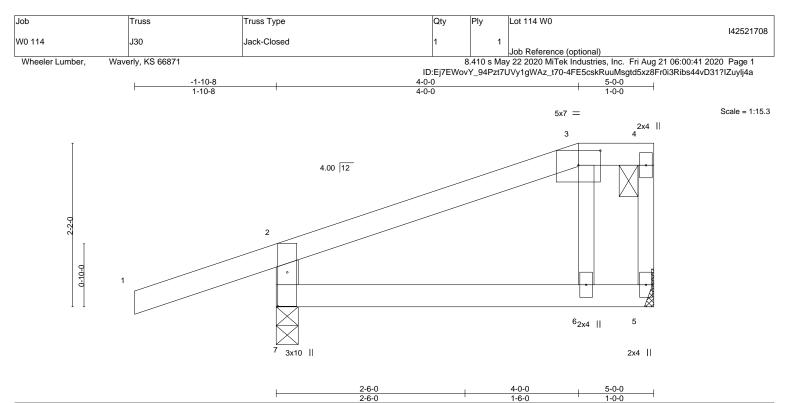
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20 Concentrated Loads (lb)

Vert: 3=35(B)



FT = 10%





OADIN	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	0.28	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	6-7	>999	240	Weight: 17 lb	FT = 10%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

 WEBS
 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 5=Mechanical Max Horz 7=95(LC 5) Max Uplift 7=-137(LC 4), 5=-32(LC 5)

Max Grav 7=385(LC 1), 5=184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-326/156

NOTES-

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

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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=137.
- 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.





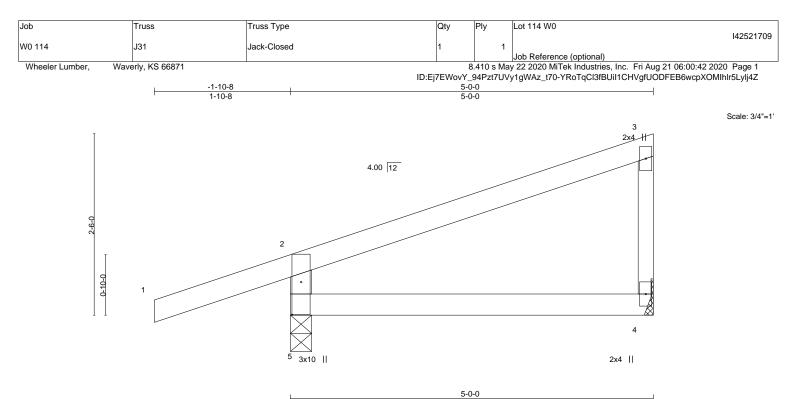


Plate Offsets (X,Y)	[5:0-5-6,0-1-8]	Γ	5-0-0
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.02 4-5 >999 360 MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.04 4-5 >999 240
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 16 lb FT = 10%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4; 2x3 SPF No.2

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=108(LC 5) Max Uplift 5=-134(LC 4), 4=-40(LC 8)

Max Grav 5=385(LC 1), 4=184(LC 1)

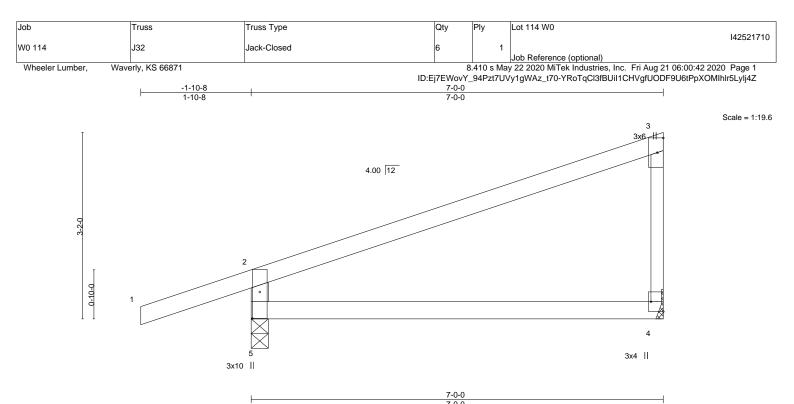
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-340/166

NOTES-

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







OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	c) l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL)	-0.08 4	-5 >985	360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT)	-0.17 4	-5 >472	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4 n/a	n/a	
SCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.03 4	-5 >999	240	Weight: 21 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=137(LC 5) Max Uplift 5=-144(LC 4), 4=-62(LC 8) Max Grav 5=466(LC 1), 4=283(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-412/192

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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=144.
- 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.





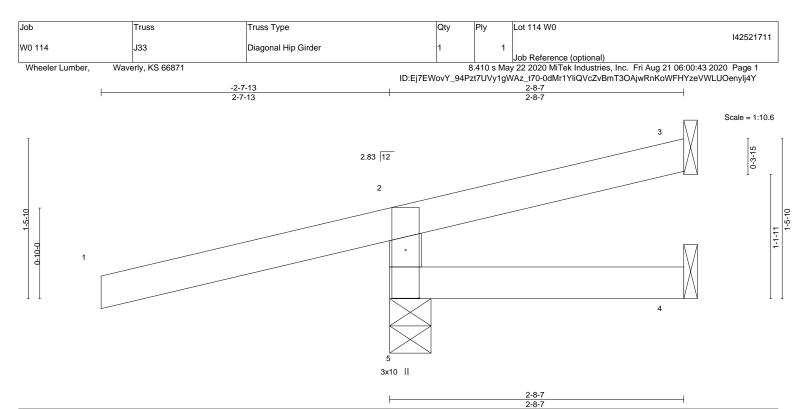


Plate Off	Plate Offsets (X,Y) [5:0-5-5,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	k-R	Wind(LL)	-0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 7) Max Uplift 5=-158(LC 4), 3=-42(LC 17), 4=-26(LC 1) Max Grav 5=276(LC 1), 3=23(LC 4), 4=28(LC 4)

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

NOTES-

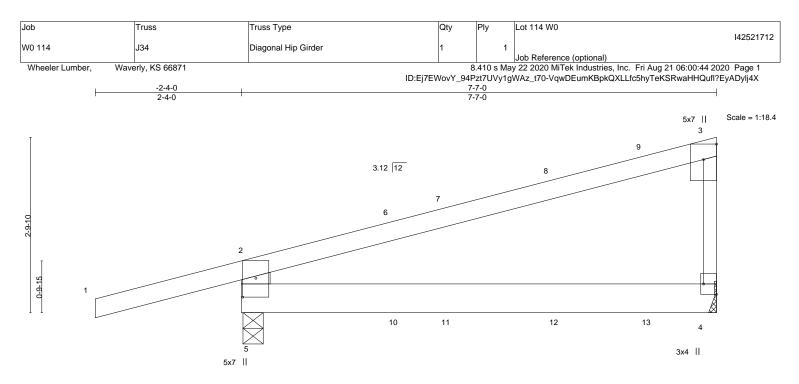
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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=158.
- 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) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 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=-71(F=-36, B=-36)
 - Trapezoidal Loads (plf)
 - Vert: 1=-0(F=35, B=35)-to-2=-49(F=11, B=11), 2=-5(F=33, B=33)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=3)







			7-7-0 7-6-11							
Plate Offsets (X,Y)	[3:Edge,0-2-8], [4:Edge,0-2-8], [5:0-3-10),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 0.81	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT)	-0.08	4-5	>999	240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.02	4-5	>999	240	Weight: 27 lb	FT = 10%	
LUMBER-			BRACING-							

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x6 SPF No.2		except end verticals.
WEBS	2x6 SPF No.2 *Except* 3-4: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-14, 4=Mechanical Max Horz 5=115(LC 22) Max Uplift 5=-191(LC 4), 4=-91(LC 8) Max Grav 5=553(LC 1), 4=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-501/250, 3-4=-261/131

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=191.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 78 lb up at 6-6-15 on top chord , and 4 lb down at 2-6-8, 10 lb down and 8 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-23(F) 9=-52(B) 11=8(B) 12=-10(F) 13=-24(B)





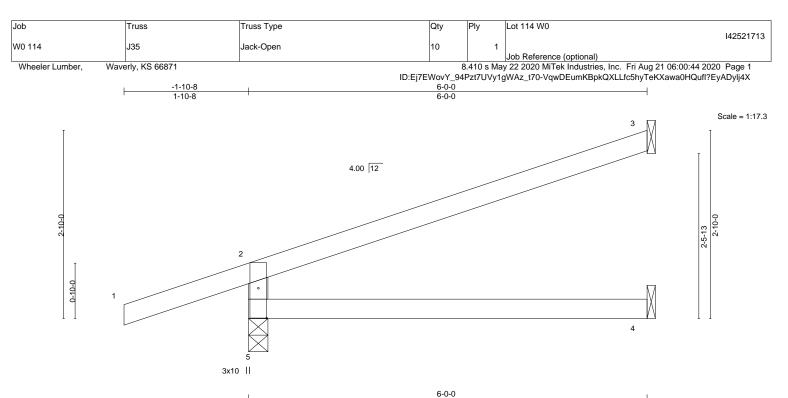


Plate Offsets (X,Y) [5:0-5-6,0-1-8]		6-0-0				1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.05	(/	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.11	4-5	>632	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04	4-5	>999	240	Weight: 17 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD Struc excep BOT CHORD Rigid

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

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

Max Horz 5=106(LC 4) Max Uplift 5=-127(LC 4), 3=-82(LC 8)

Max Grav 5=427(LC 1), 3=173(LC 1), 4=107(LC 3)

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

TOP CHORD 2-5=-374/174

NOTES-

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

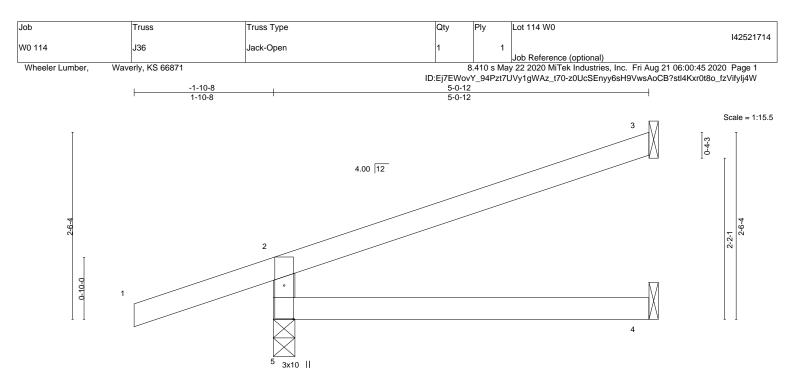
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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 except (jt=lb) 5=127.
- 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.







			<u>5-0-12</u> 5-0-12				
Plate Offsets (X,Y) [5:0-5-6,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.03	4-5 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.05	4-5 >999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02	3 n/a	n/a		

11	111/	BE	D

BCDL

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

10.0

BRACING-TOP CHORD S e BOT CHORD R

0.02

>999

4-5

240

Wind(LL)

Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 15 lb

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

Max Horz 5=93(LC 4) Max Uplift 5=-124(LC 4), 3=-68(LC 8)

Max Grav 5=389(LC 1), 3=140(LC 1), 4=89(LC 3)

Code IRC2018/TPI2014

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

TOP CHORD 2-5=-341/162

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;

Matrix-R

- 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 except (jt=lb) 5=124.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 10%



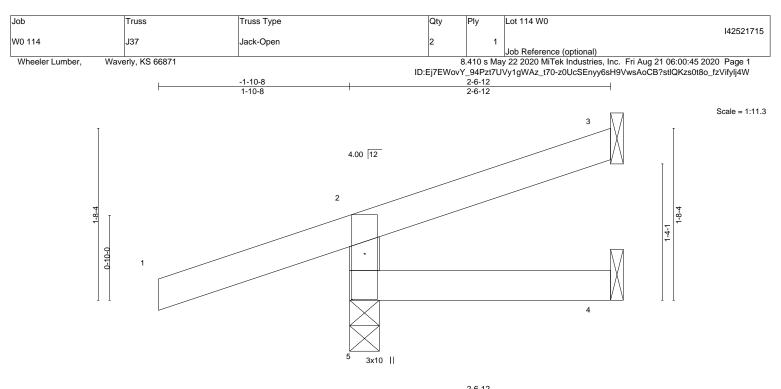


Plate Offsets (X,Y) [5:0-5-6,0-1-8]								2-6-12				
Plate Olise	ls (X, Y)	[5:0-5-6,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

-			_	_	_	
L	L	IM	IR	F	R-	

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD Structural w except end BOT CHORD Rigid ceiling

Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=59(LC 4) Max Uplift 5=-126(LC 4), 3=-26(LC 8)

Max Grav 5=308(LC 1), 3=39(LC 1), 4=38(LC 3)

TOP CHORD 2-5=-267/137

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 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.

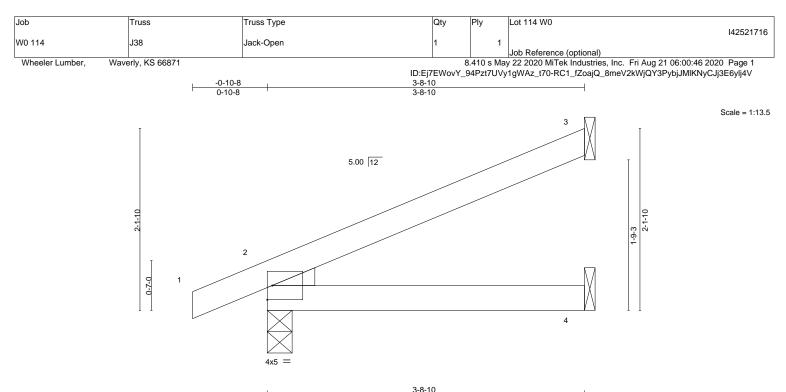
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=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.





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



		1		
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 0.19	Vert(LL) -0.01 2-4 >999	360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02 2-4 >999	240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 ****	240 Weight: 10 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=77(LC 8) Max Uplift 3=-66(LC 8), 2=-37(LC 8) Max Grav 3=113(LC 1), 2=240(LC 1), 4=70(LC 3)

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

NOTES-

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

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

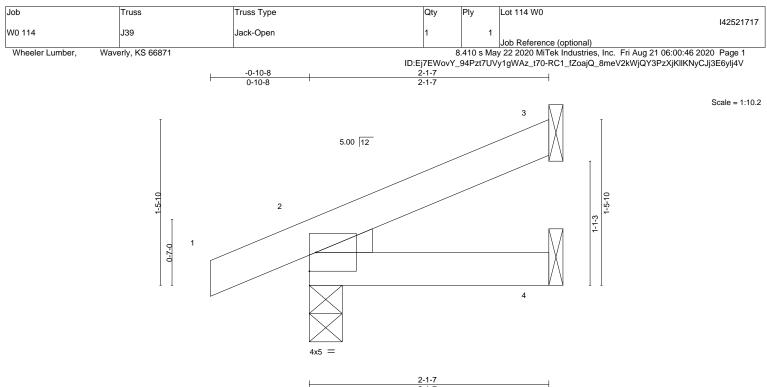


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-8-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



				2-1-7
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 0.06	Vert(LL) -0.00 2 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 2-4 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 7 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=49(LC 8) Max Uplift 3=-35(LC 8), 2=-35(LC 4) Max Grav 3=48(LC 1), 2=177(LC 1), 4=38(LC 3)

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

NOTES-

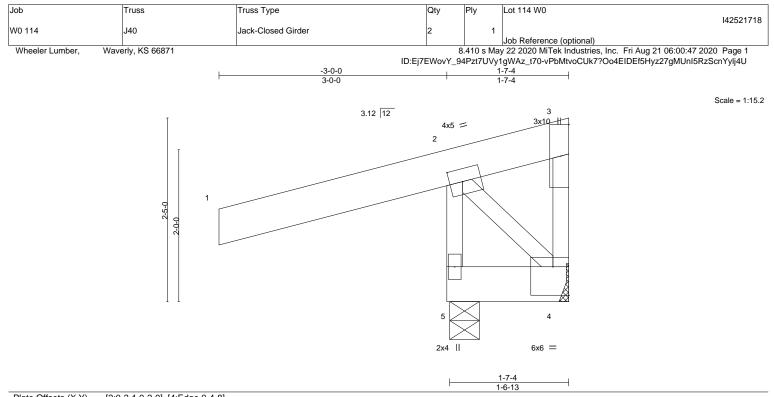
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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.
- August 21,2020

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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-1-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL)	-0.00	5	>999	360	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.00	5	****	240	Weight: 15 lb FT = 10	1%
LUMBER-			BRACING-						

LUMBER-		BRACING-	
TOP CHORI	D 2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 1-7-4 oc purlins,
BOT CHORI	D 2x6 SPF No.2		except end verticals.
WEBS	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=92(LC 5) Max Uplift 5=-278(LC 4), 4=-734(LC 21)

Max Grav 5=1327(LC 21), 4=123(LC 4)

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

TOP CHORD 2-5=-1313/286, 3-4=-142/748

NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=278, 4=734.

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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

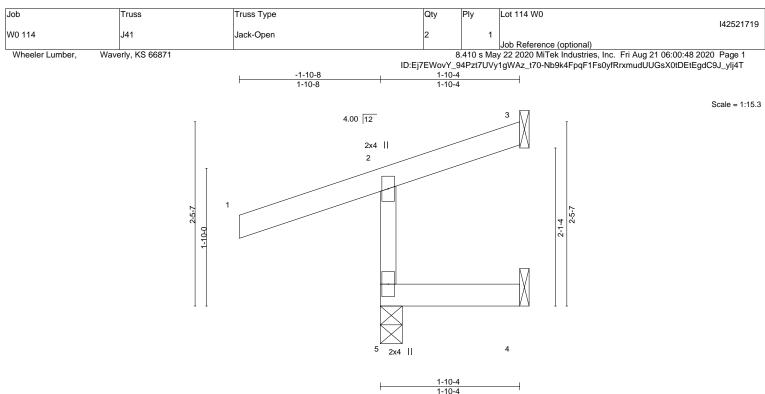
LOAD CASE(S) Standard Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb) Vert: 1=-250







							1-10-4					
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	0.27	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R						Weight: 8 lb	FT = 10%

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

WEBS 2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=64(LC 5) Max Uplift 5=-107(LC 4), 3=-23(LC 5), 4=-12(LC 5) Max Grav 5=296(LC 1), 3=6(LC 19), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-270/132

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=107.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



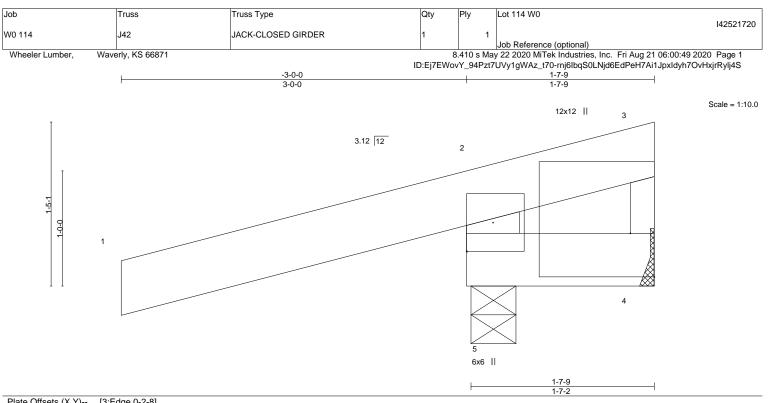
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILER KEERENCE PAGE MIL-7475 fev. or 19/2/2/0/ DEFORE USE. Design valid for use only with MITek® connectors. 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-4 oc purlins, except end verticals.

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



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 0.83	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT)	0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.00	5	>999	240	Weight: 12 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.4E	TOP CHORD Structural wood sheathing directly applied or 1-7-9 oc purlins,
BOT CHORD 2x6 SPF No.2	except end verticals.
WEBS 2x6 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-4: 2x3 SPF No.2	

REACTIONS. (size) 5=0-4-11, 4=Mechanical Max Horz 5=66(LC 7) Max Uplift 5=-314(LC 4), 4=-846(LC 21)

Max Grav 5=1438(LC 21), 4=155(LC 4)

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

 TOP CHORD
 2-5=-1210/287, 3-4=-112/643

NOTES-

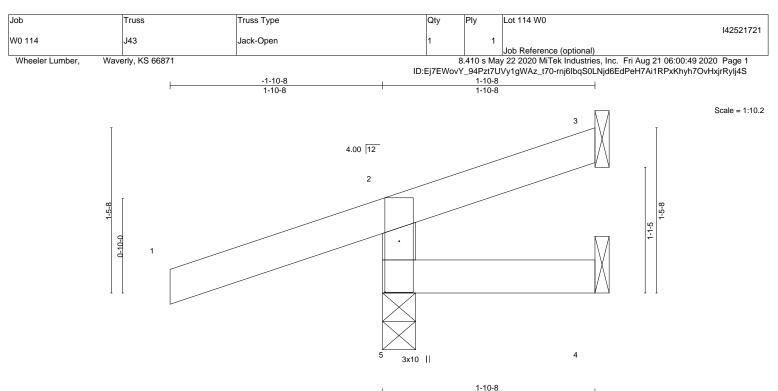
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=314, 4=846.
- 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.
- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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 Except:

- 21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)
 - Vert: 1=-250







								1-10-	-				
Plate Offs	ets (X,Y)	[5:0-5-6,0-1-8]											_
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%	

JME	

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

BRACING-TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals. BOT CHORD

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

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

Max Horz 5=50(LC 4) Max Uplift 5=-135(LC 4), 3=-12(LC 8), 4=-8(LC 1)

Max Grav 5=302(LC 1), 3=4(LC 19), 4=25(LC 3)

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

TOP CHORD 2-5=-260/138

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.

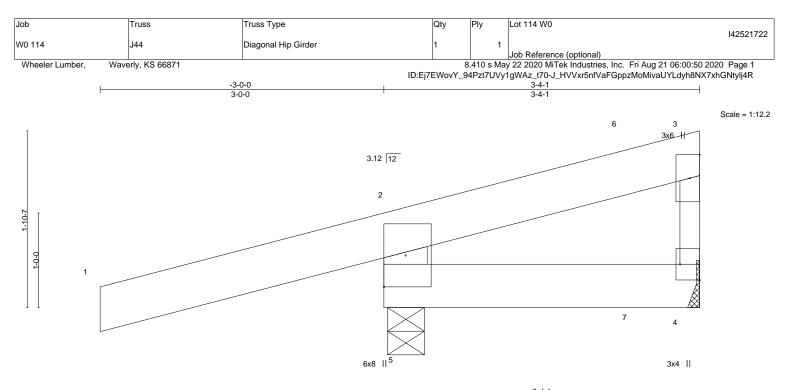
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 135

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.







3-4-1 3-3-10

OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL)	0.00 4-	, 5 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT)	0.01 4-	5 >999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -	-0.00	4 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -	-0.00 4-	5 >999	240	Weight: 19 lb	FT = 10%

TOP CHORD 2x6 SPF 1650F 1.4E TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, BOT CHORD 2x6 SPF No.2 except end verticals WEBS 2x6 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical Max Horz 5=85(LC 7) Max Uplift 5=-231(LC 4), 4=-261(LC 37)

Max Grav 5=1000(LC 37), 4=100(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-857/233

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.
- 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=231. 4=261.
- 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) Load case(s) 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

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=8(F)

Continued on page 2

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

TE SCOTT M. SEVIER NOFFESSIONAL PE-2001018807 E August 21,2020

OF MISS



Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521722
N0 114	J44	Diagonal Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	rly, KS 66871		8	.410 s May	/ 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:50 2020 Page 2

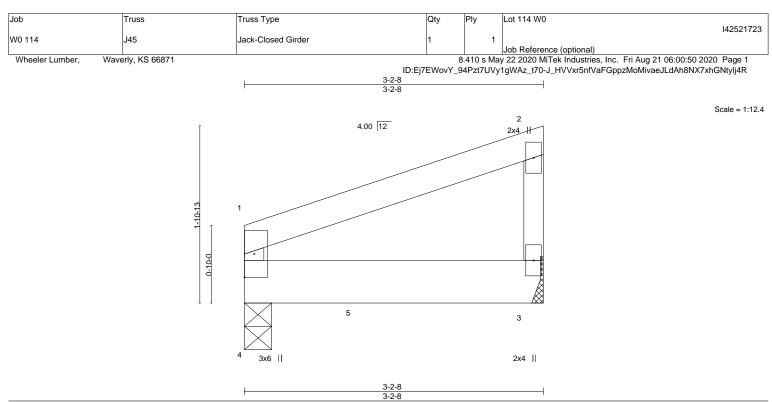
ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-J_HVVxr5nfVaFGppzMoMivaUYLdyh8NX7xhGNtylj4R

LOAD CASE(S)

37) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)

Vert: 1=-250 7=8(F)





				3-2-8		1	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL)	-0.01 3-4	>999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.26	Vert(CT)	-0.01 3-4	>999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00 3	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 3-4	>999 240	Weight: 11 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5) Max Uplift 4=-56(LC 4), 3=-54(LC 8)

Max Grav 4=347(LC 1), 3=270(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 67 lb up at 1-3-4 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, 3-4=-20
- Concentrated Loads (lb) Vert: 5=-347(F)

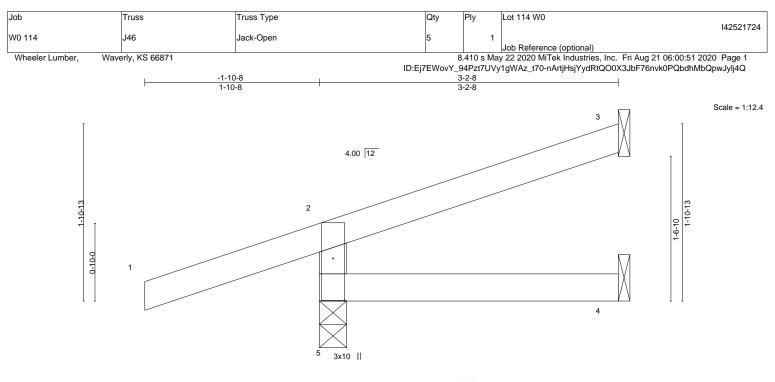


Structural wood sheathing directly applied or 3-2-8 oc purlins,

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

except end verticals.





					<u>3-2-8</u> 3-2-8			———————————————————————————————————————		
Plate Offsets (X,Y)	[5:0-5-6,0-1-8]									
OADING (psf)	SPACING-	2-0-0		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	

TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.06 WB 0.00 Matrix-P	Vert(CT) -0.01 Horz(CT) -0.00 Wind(LL) 0.00	4-5 3 4-5	n/a	240 n/a 240 Weight: 10	lb FT - 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	4-5	>999 2	240 Weight: 10	lb FT = 10%
			BRACING-				

Pla

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

TOP CHORD

Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=68(LC 4) Max Uplift 5=-123(LC 4), 3=-38(LC 8)

Max Grav 5=324(LC 1), 3=69(LC 1), 4=52(LC 3)

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

TOP CHORD 2-5=-283/142

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.

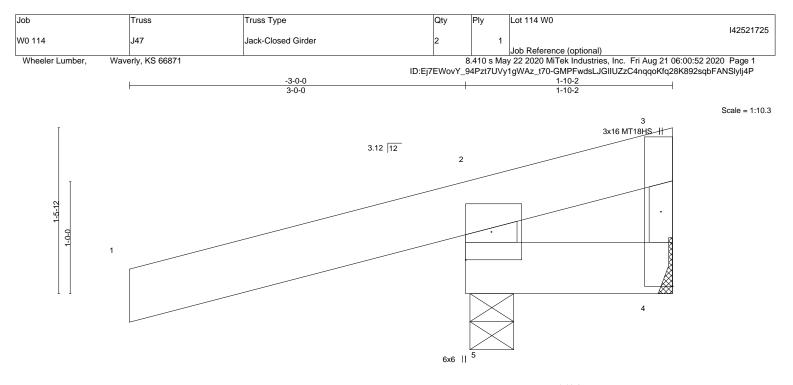
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=123.

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.







					<u>1-10-2</u> 1-9-11	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.83	DEFL. Vert(LL)	in (loc) 0.00 5		PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.22 WB 0.00	- (-)	0.00 4-5 -0.00 4		MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -	-0.00 5	5 >999 240	Weight: 13 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x6 SPF 1650F 1.4E

 BOT CHORD
 2x6 SPF No.2

 WEBS
 2x6 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Ma

Max Horz 5=68(LC 7) Max Uplift 5=-291(LC 4), 4=-707(LC 21)

Max Grav 5=1320(LC 21), 4=129(LC 4)

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

TOP CHORD 2-5=-1111/269, 3-4=-89/529

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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) 5=291, 4=707.

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.

 Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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 Except:

- 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 21) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb) Vert: 1=-250

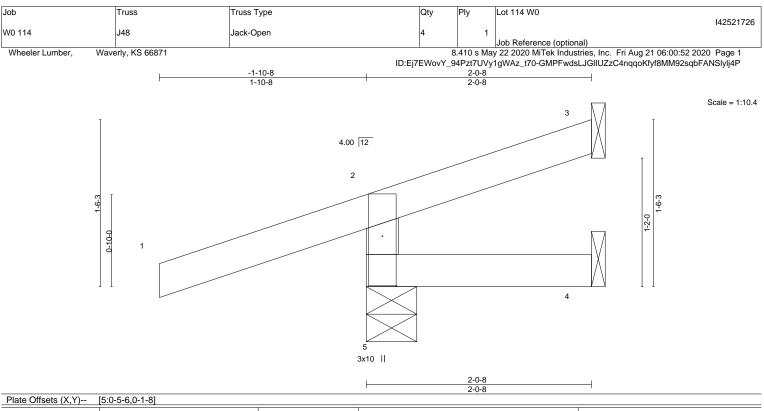


Structural wood sheathing directly applied or 1-10-2 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES GRIP MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00	4-5	>999	360	
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00	4-5	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00	5	>999	240	Weight: 8 lb FT = 10%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD Struct excel BOT CHORD Rigid

Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=52(LC 4) Max Uplift 5=-133(LC 4), 3=-15(LC 8), 4=-5(LC 1)

Max Grav 5=302(LC 1), 3=10(LC 1), 4=27(LC 3)

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

TOP CHORD 2-5=-260/137

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 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.

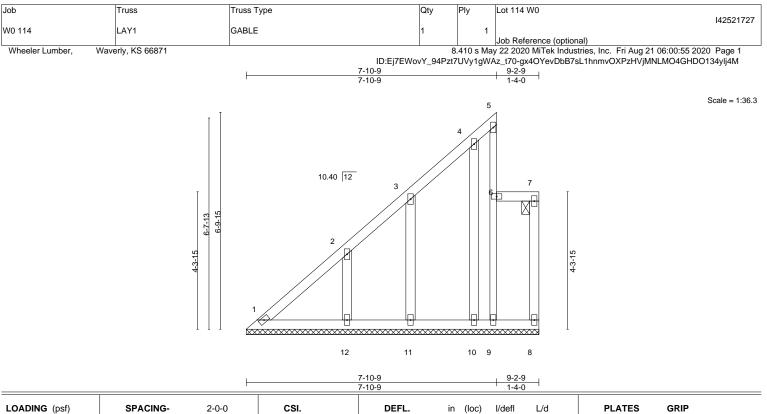
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=133.

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.







TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL	1.15 1.15 YES 014	TC BC WB Matrix	0.16 0.06 0.10 x-S	Vert(LL) Vert(CT) Horz(CT)	n/a n/a -0.00	- - 8	n/a n/a n/a	999 999 n/a	MT20 Weight: 46 lb	197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF					BRACING- TOP CHOR		.			ectly applied or 6-0-0	

TOP	CH	IORD	

BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	5-9: 2x3 SPF No.2
OTHERS	2x4 SPF No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 8-9.

REACTIONS. All bearings 9-2-9. (lb) -

Max Horz 1=277(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=-135(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=277(LC 15)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-364/211

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) 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.

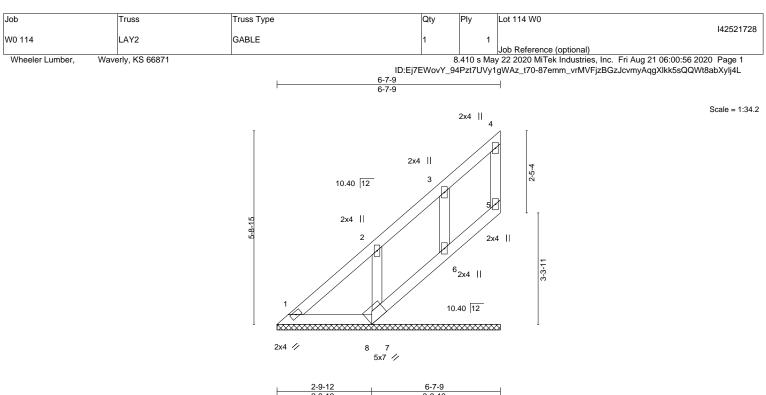
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 8, 11, 10 except (jt=lb) 12=135.

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.







		2-9-12	3-9-13	1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) n/a -	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a -	n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 25 lb FT = 10%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 6-7-9.

(lb) - Max Horz 1=175(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6 except 7=-121(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=271(LC 15)

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

NOTES-

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

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.

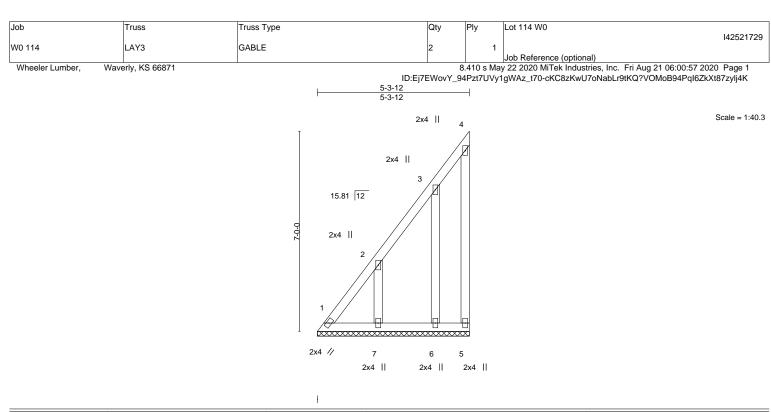
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6 except (jt=lb) 7=121.

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.

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







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 0.29 BC 0.03 WB 0.06 Matrix-P	DEFL. i Vert(LL) n// Vert(CT) n// Horz(CT) -0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 31 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP		1	BRACING- TOP CHORD		iral wood end vertio	0	irectly applied or 5-3-12	oc purlins,

BOT CHORD

WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-3-12.

Max Horz 1=254(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-125(LC 6), 5=-115(LC 7), 7=-197(LC 8), 6=-138(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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

TOP CHORD 1-2=-301/225

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.

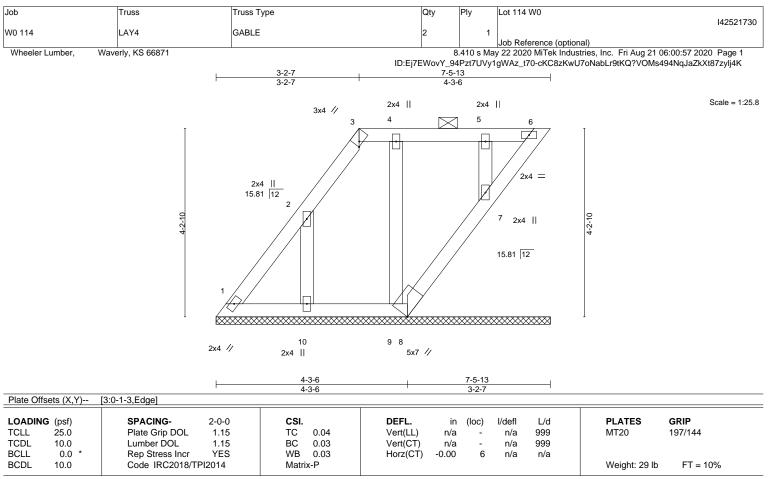
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 1, 115 lb uplift at joint 5, 197 lb uplift at joint 7 and 138 lb uplift at joint 6.

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







LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-5-13.

(lb) - Max Horz 1=160(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9, 7 except 10=-159(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 10, 9, 7

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

NOTES-

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, 8, 9, 7 except (jt=lb) 10=159.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.

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

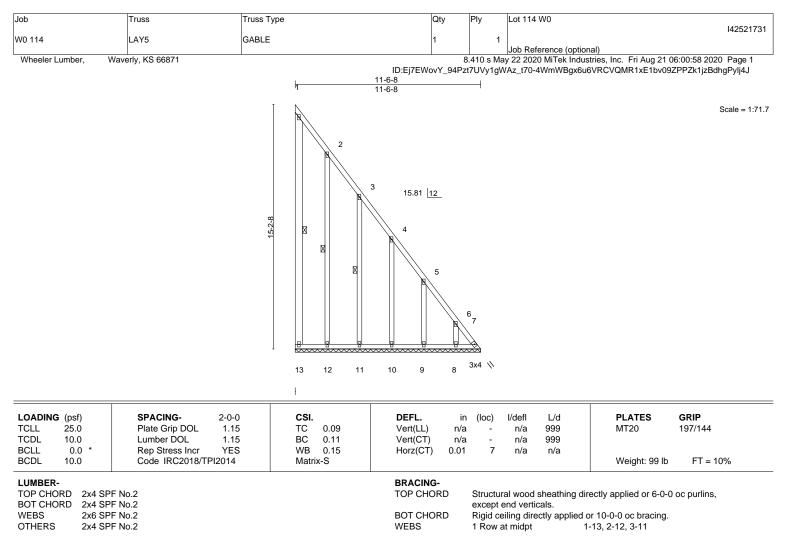
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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NiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



REACTIONS. All bearings 11-6-8.

(lb) -Max Horz 13=-592(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 13 except 7=-290(LC 7), 12=-165(LC 9), 11=-180(LC 9), 10=-174(LC 9), 9=-179(LC 9), 8=-158(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9, 8 except 7=743(LC 9)

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

2-3=-252/120, 3-4=-433/193, 4-5=-609/266, 5-6=-791/343, 6-7=-940/404 TOP CHORD

12-13=-247/591, 11-12=-247/591, 10-11=-247/591, 9-10=-247/591, 8-9=-247/591, BOT CHORD 7-8=-247/591

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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are 2x4 MT20 unless otherwise indicated.

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) 13 except (jt=lb) 7=290, 12=165, 11=180, 10=174, 9=179, 8=158.

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.





	W0	Lot 114 W	Ply	ty		ss Type	Truss 1	Truss	
14252173			1			BLE	GABLE	LAY6	114
	ference (optional)	Job Refer							
Aug 21 06:00:59 2020 Page 1 2ISTapSBkzIYI9asCrMECryli4I	20 MiTek Industries, Inc. Fri Aug 21 VAz_t70-YiKuO0ykfQdlge?Y?ISTap	ay 22 2020 l 71 IVv1aWA:	410 s Ma Y 94Pzt	8. i7FWov	IL			erly, KS 66871	neeler Lumber, Wave
			1_041 20	J/ 21101	8-5-15	 			
					8-5-15				
Scale = 1:101						4			
						1 2x4			
		2-11-8	4-0-3	x6 🛝	12 9 4x5 // 6x6	8 5 5 14 14 3x4 11 3x4 11 3x4			
						6x6 📏			
					4-5-1 ₁ 6-8-0 8-5-15 ₁	2-2-2 4-			
					2-2-15 2-2-15 1-9-15	2-2-2 2-2			
	L/d PLATES 999 MT20 999	n/a	(loc) -	in n/a n/a	DEFL. Vert(LL) Vert(CT)	CSI. TC 0.10 BC 0.11	2-0-0 1.15 1.15	SPACING- Plate Grip DOL Lumber DOL	ADING (psf) LL 25.0 DL 10.0
nt: 87 lb FT = 10%	n/a Weight: 87 lb		8	0.01	Horz(CT	WB 0.26 Matrix-P	YES	Rep Stress Incr Code IRC2018/TPI	LL 0.0 * DL 10.0
	troight of it				BRACIN				MBER-

BOT CHORD

WEBS

BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	5-9: 2x3 SPF No.2
OTHERS	2x4 SPF No.2

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 1-14, 2-13

REACTIONS. All bearings 8-5-15. Max Horz 14=-387(LC 9) (lb) -

- Max Uplift All uplift 100 lb or less at joint(s) 14, 8 except 7=-493(LC 7), 12=-548(LC 9), 10=-770(LC 7), 13=-164(LC 9), 11=-169(LC 9), 9=-1288(LC 9)
- Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11 except 7=1068(LC 9), 12=373(LC 7), 10=1019(LC 9), 13=262(LC 16), 9=787(LC 7)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-261/124, 3-4=-450/202, 4-5=-596/256
- BOT CHORD 13-14=-293/387, 12-13=-293/387, 11-12=-506/667, 10-11=-501/635, 9-10=-498/643
- WEBS 5-7=-843/451, 5-9=-431/753

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 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) 14, 8 except (jt=lb) 7=493, 12=548, 10=770, 13=164, 11=169, 9=1288.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.

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



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 Satisfy for storage, delivery, erection and bracing of trusses and truss systems, see
 ANSI/TPI1 Qu

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

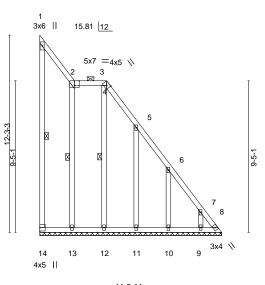


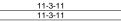
Job	Truss	Truss Type	Qty	Ply	Lot 114 W0]
W0 114	LAY7	GABLE	1		1		142521733
Wheeler Lumber,	Waverly, KS 66871			8.410 s	Job Reference (option May 22 2020 MiTek Indus		6:01:00 2020 Page 1
			ID:Ej7EV 8-9-1		'UVy1gWAz_t70-1vuHbM		
			8-9-1				
		1					Scale = 1:63.4
			15.81 <u>12</u>	5 6 3x6	0-8-12		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-1 Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YES Code IRC2018/TPI2014	5 TC 0.08 5 BC 0.08 5 WB 0.13	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.01 6	n/a 999 n/a 999	PLATES MT20 Weight: 64 lb	GRIP 197/144 FT = 10%
			BRACING- TOP CHORD BOT CHORD WEBS	excep Rigid	tural wood sheathing dir ot end verticals. ceiling directly applied o v at midpt 1		oc purlins,
(Ib) - Max H Max U Max G	9), 7=-348(LC 9) irav All reactions 250 lb or less	pint(s) 11 except 10=-186(LC 9), 9 at joint(s) 11, 10, 9, 8, 7 except 6	=812(LC 9)	7(LC 7), 8=	-185(LC		
TOP CHORD 2-3=- BOT CHORD 10-11	264/126, 3-4=-439/195, 4-5=-62	0 (lb) or less except when shown. 6/275, 5-6=-940/406 =-199/477, 7-8=-199/477, 6-7=-19					
MWFRS (envelope) DOL=1.60 2) All plates are 2x4 M 3) Gable requires conti 4) This truss has been will fit between the b 6) Provide mechanical 10=186, 9=172, 6=3	gable end zone; cantilever left a T20 unless otherwise indicated. inuous bottom chord bearing. designed for a 10.0 psf bottom of n designed for a live load of 20.0 oottom chord and any other merr connection (by others) of truss t 37, 8=185, 7=348. ed in accordance with the 2018 I	sd=91mph; TCDL=6.0psf; BCDL= and right exposed ; end vertical rig chord live load nonconcurrent with Opsf on the bottom chord in all are abers. o bearing plate capable of withsta nternational Residential Code sec	ht exposed; Lumber any other live loads as where a rectangl nding 100 lb uplift a	r DOL=1.60 s. e 3-6-0 tall t joint(s) 11	plate grip by 2-0-0 wide except (jt=lb)	SC SC SC	S MISSOUR DTT M. EVIER





	Job	Truss	Truss Type		Qty	Ply	Lot 114 W0
	W0 114	LAY8	GABLE		1	1	142521734
	WU 114	LATO	GABLE		'	1	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871			8		y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:00 2020 Page 1
				ID:Ej	7EWovY_9	4Pzt7UVy	/1gWAz_t70-1vuHbMzMQjl9SoakYSzi60_HhN2a1eZ?RV6oklylj4H
			2-1-14	4-1-14 ₁ 11-3-1	1		
			2-1-14	2-0-0 7-1-1	3		





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL)	/a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.	01 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 79 lb	FT = 10%
BOT CHORD 2x4 S WEBS 2x4 S	PF No.2 PF No.2 PF 2100F 1.8E PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	except Rigid o	end verti	cals, and 2-0- ectly applied c	ectly applied or 6-0-0 0 oc purlins (6-0-0 m or 10-0-0 oc bracing. -14. 2-13. 3-12	

REACTIONS. All bearings 11-3-11. (lb) - Max Horz 14=-462(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) except 14=-238(LC 6), 8=-318(LC 7), 13=-194(LC 5), 12=-247(LC 4), 11=-188(LC 9), 10=-177(LC 9), 9=-151(LC 9)

- Max Grav All reactions 250 lb or less at joint(s) 14, 11, 10, 9 except 8=470(LC 4), 13=353(LC 15), 12=258(LC 16)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 4-5=-349/241, 5-6=-416/296, 6-7=-512/369, 7-8=-589/427
- 13-14=-257/363, 12-13=-258/364, 11-12=-258/364, 10-11=-258/364, 9-10=-258/364, BOT CHORD 8-9=-258/364

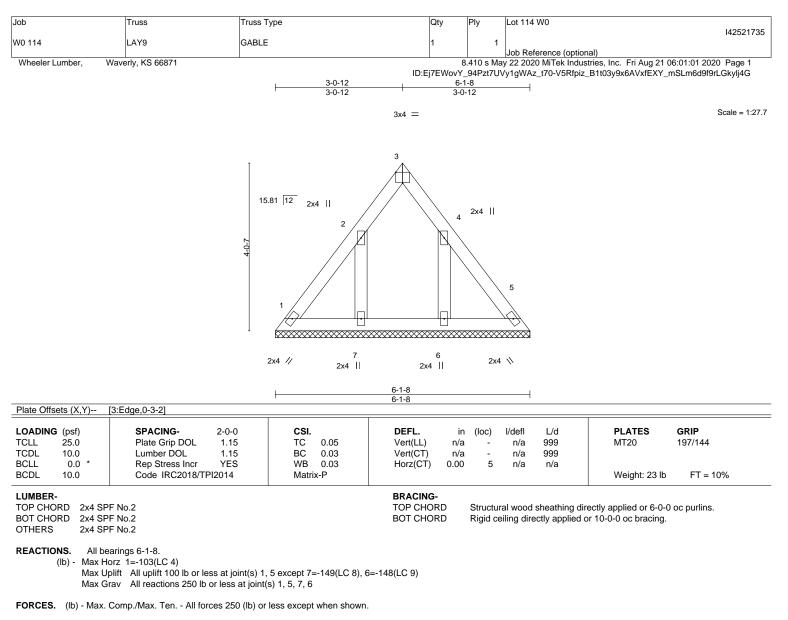
NOTES-

- 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 238 lb uplift at joint 14, 318 lb uplift at joint 8, 194 lb uplift at joint 13, 247 lb uplift at joint 12, 188 lb uplift at joint 11, 177 lb uplift at joint 10 and 151 lb uplift at joint 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:71.6

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



NOTES-

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.

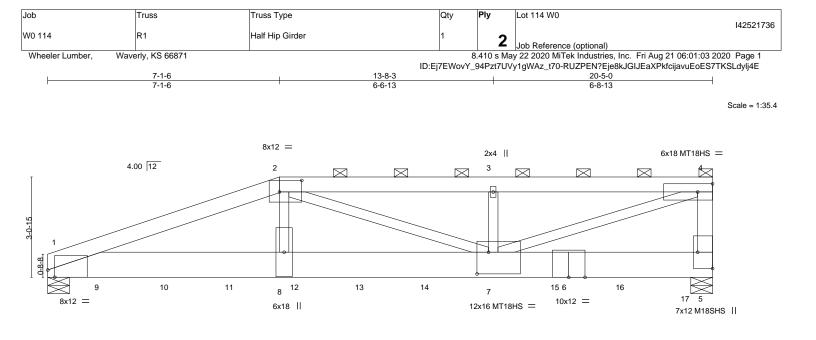
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=149, 6=148.

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.





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



L	7-1-6		3-8-3			5-0	
	7-1-6 [1:0-2-9,Edge], [2:0-8-4,0-4-4], [5:Edge,		6-13	1	6-8	-13	I
Plate Offsets (X,Y)	[1:0-2-9,Edge], [2:0-8-4,0-4-4], [5:Edge,	0-5-8], [7:0-4-4,0-8-0]	1				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/d	lefl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.30			MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.53			M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.06		n/a n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.18	3 7-8 >9	99 240	Weight: 280 lb	FT = 10%
LUMBER-		1	BRACING-				
	PF 1650F 1.4E		TOP CHORD			ctly applied or 3-6-12	
BOT CHORD 2x10 S) oc purlins (3-9-1 ma	x.): 2-4.
	PF No.2 *Except*		BOT CHORD	Rigid ceilin	g directly applied or	10-0-0 oc bracing.	
4-5: 2x	6 SPF No.2, 2-7,4-7: 2x4 SPF 2100F 1.8	8E					
Max G F ORCES. (lb) - Max. FOP CHORD 1-2=- 3OT CHORD 1-8=-	plift 1=-908(LC 4), 5=-99(LC 4) rav 1=8864(LC 1), 5=10218(LC 1) Comp./Max. Ten All forces 250 (lb) or 19337/1770, 2-3=-17189/1034, 3-4=-17 1650/18128, 7-8=-1694/18513, 5-7=-21 751/6493, 2-7=-1413/774, 3-7=-362/265	189/1034, 4-5=-6570/435 /840					
Top chords connecte Bottom chords connu Webs connected as 2) All loads are conside ply connections have 3) Wind: ASCE 7-16; V MWFRS (envelope); 4) Provide adequate dr 5) All plates are MT20 5) This truss has been	nected together with 10d (0.131"x3") na ed as follows: 2x6 - 2 rows staggered at ected as follows: 2x10 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except if e been provided to distribute only loads : fult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v ainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t	0-4-0 oc. ed at 0-5-0 oc. f noted as front (F) or bac noted as (F) or (B), unles uph; TCDL=6.0psf; BCDL= vertical left and right expo	s otherwise indicated. =6.0psf; h=25ft; Cat. II; E sed; Lumber DOL=1.60 h any other live loads.	Exp C; Enclos plate grip DC	eed; DL=1.60	STATE OF	MISSOLA
	ottom chord and any other members. connection (by others) of truss to bearin	ng plate capable of withsta	anding 100 lb uplift at joir	nt(s) 5 except	t (jt=lb)	SE SE	VIER

 This truss 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.



Continued on page 2

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 114 W0
					142521736
W0 114	R1	Half Hip Girder	1	2	lab Deference (anti-nal)
					Job Reference (optional)
Wheeler Lumber, Wav	erly, KS 66871		8	.410 s Ma	y 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:03 2020 Page 2

NOTES-

- ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RUZPEN?Eje8kJGIJEaXPkfcijavuEoES7TKSLdylj4E
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 754 lb down and 153 lb up at 1-7-12, 347 lb down and 24 lb up at 1-7-12, 1123 lb down and 197 lb up at 3-7-12, 754 lb down and 182 lb up at 3-7-12, 967 lb down and 31 lb up at 5-7-12, 754 lb down and 94 lb up at 5-7-12, 967 lb down and 70 lb up at 7-7-12, 754 lb down and 109 lb up at 7-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 7-7-12, 754 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 754 lb down and 109 lb up at 13-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down at 15-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down at 15-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down and 109 lb up at 13-7-12, 1057 lb down and 104 lb up at 13-7-12, 1057 lb down and 104 lb up at 19-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

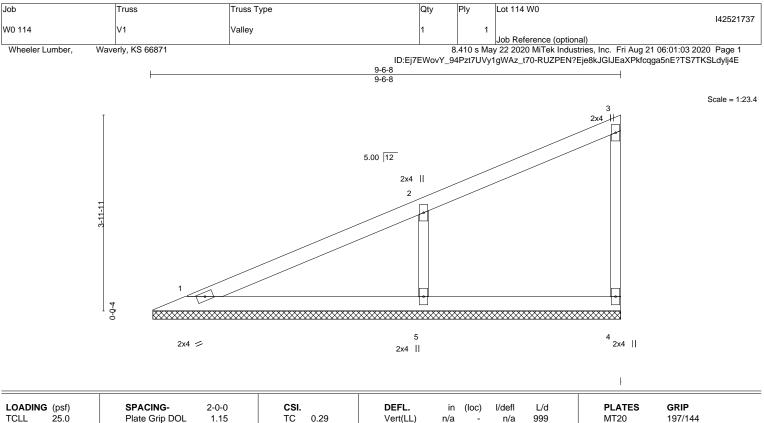
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1812(F=-754, B=-1057) 9=-1101(F=-754, B=-347) 10=-1878(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1809(F=-754, B=-1055) 14=-1812(F=-754, B=-1057) 15=-1812(F=-754, B=-1057) 16=-1807(F=-754, B=-1053) 17=-1821(F=-759, B=-1062)





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.29 BC 0.16 WB 0.07 Matrix-S	DEFL. ir Vert(LL) n/z Vert(CT) n/z Horz(CT) -0.00	a - n/	'a 999 'a 999	PLATES MT20 Weight: 26 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP OTHERS 2x3 SP	PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	except end v	verticals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,
Max U	e) 1=9-5-14, 4=9-5-14, 5=9-5-14 orz 1=159(LC 5) plift 4=-23(LC 5), 5=-129(LC 8)	2.4)					

Max Grav 1=172(LC 1), 4=122(LC 1), 5=487(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-5=-370/182

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.

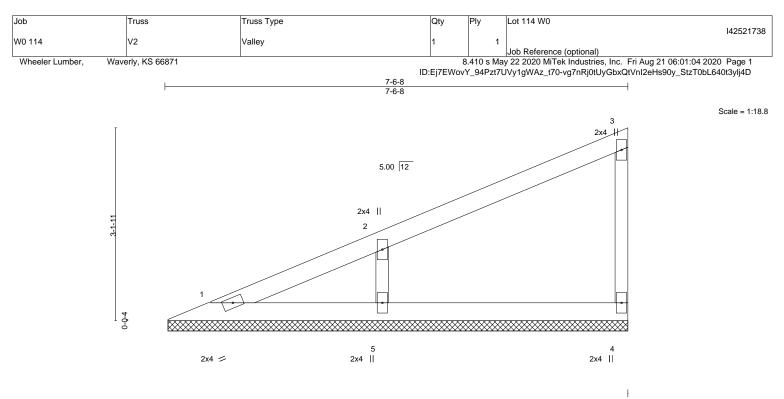
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 129

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.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a	-	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00	4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	()			Weight: 20 lb FT = 10%

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 OTHERS
 2x3 SPF No.2

REACTIONS. (size) 1=7-5-14, 4=7-5-14, 5=7-5-14 Max Horz 1=122(LC 5)

Max Uplift 4=-26(LC 8), 5=-102(LC 8)

Max Grav 1=81(LC 16), 4=141(LC 1), 5=384(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-5=-299/153

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=102.

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

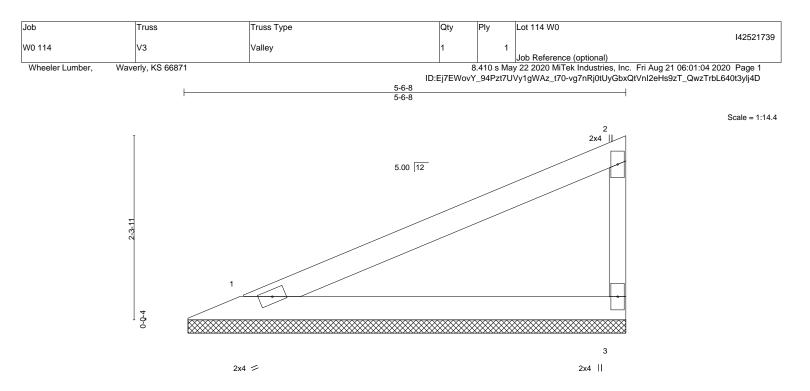


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





.OADING (psi	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
rcll 25.0	.0	Plate Grip DOL	1.15	тс	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	.0	Lumber DOL	1.15	BC	0.23	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/TI	PI2014	Matrix	k-P						Weight: 14 lb	FT = 10%

BOT CHORD

TOP CHORD 2x4 SPF No.2

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

REACTIONS. (size) 1=5-5-14, 3=5-5-14 Max Horz 1=86(LC 5) Max Horz 1=-31((C 8) 3=-48)

Max Uplift 1=-31(LC 8), 3=-48(LC 8) Max Grav 1=211(LC 1), 3=211(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

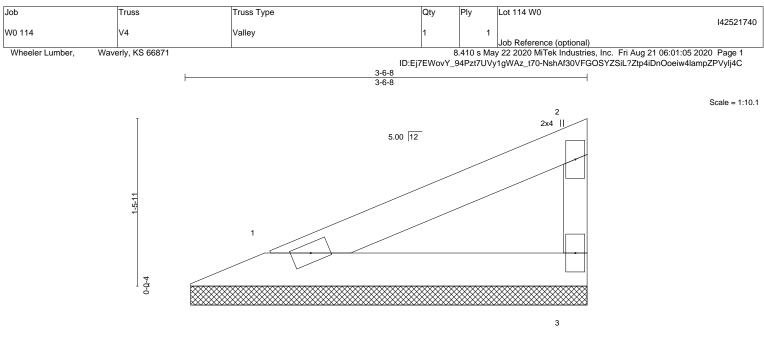


Structural wood sheathing directly applied or 5-6-8 oc purlins,

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

except end verticals.





2x4 💋

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 3CLL 0.0 3CDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.13 BC 0.07 WB 0.00 Matrix-P	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) -0.0	′a - r ′a - r	lefi L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 10%
	PF No.2 PF No.2		BRACING- TOP CHORD	Structural w		rectly applied or 3-6	-8 oc purlins,

BOT CHORD

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

REACTIONS. 1=3-5-14, 3=3-5-14 (size) Max Horz 1=49(LC 5) Max Uplift 1=-18(LC 8), 3=-28(LC 8) Max Grav 1=121(LC 1), 3=121(LC 1)

2x3 SPF No.2

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

NOTES-

WEBS

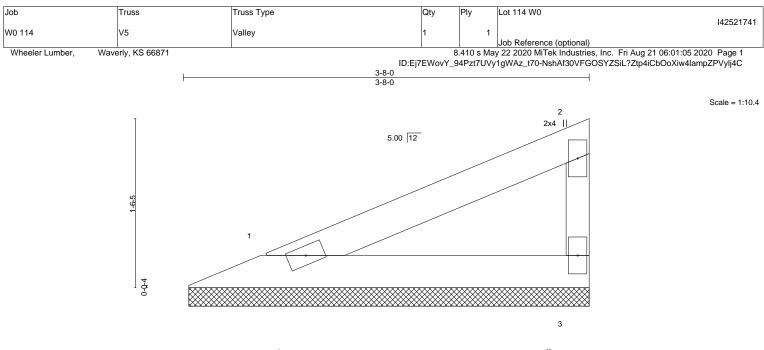
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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.







2x4 💋

2x4 ||

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

OADING (psf) TCLL 25.0 TCDL 10.0 3CLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.07 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	- n/a 9 - n/a 9	L/d PLATE : 999 MT20 999 n/a	S GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight:	8 lb FT = 10%

BOT CHORD

WEBS 2x3 SPF No.2

REACTIONS. 1=3-7-6, 3=3-7-6 (size) Max Horz 1=52(LC 5) Max Uplift 1=-18(LC 8), 3=-29(LC 8) Max Grav 1=126(LC 1), 3=126(LC 1)

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

NOTES-

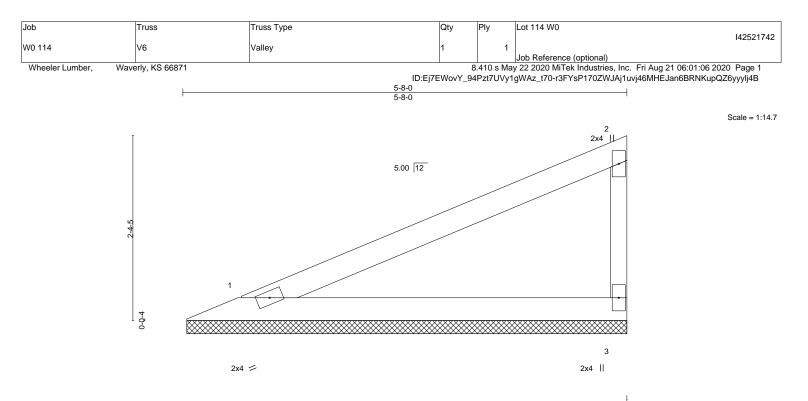
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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.







OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/	/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) n/a	-	n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) n/a	-	n/a 999	
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a n/a	
CDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 14 lb FT = 10%

BOT CHORD

TOP CHORD

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

REACTIONS.

1=5-7-6, 3=5-7-6 (size) Max Horz 1=88(LC 5) Max Uplift 1=-32(LC 8), 3=-49(LC 8) Max Grav 1=216(LC 1), 3=216(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

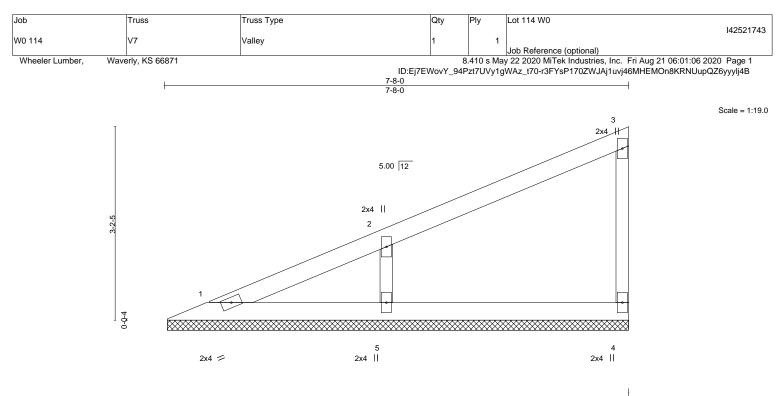


Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.





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 0.20	Vert(LL) n/a -	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a -	n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	()		Weight: 20 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-7-6, 4=7-7-6, 5=7-7-6

Max Horz 1=124(LC 5) Max Uplift 4=-25(LC 8), 5=-103(LC 8)

Max Grav 1=86(LC 16), 4=140(LC 1), 5=389(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-303/155WEBS

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) 4 except (jt=lb) 5 = 103

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

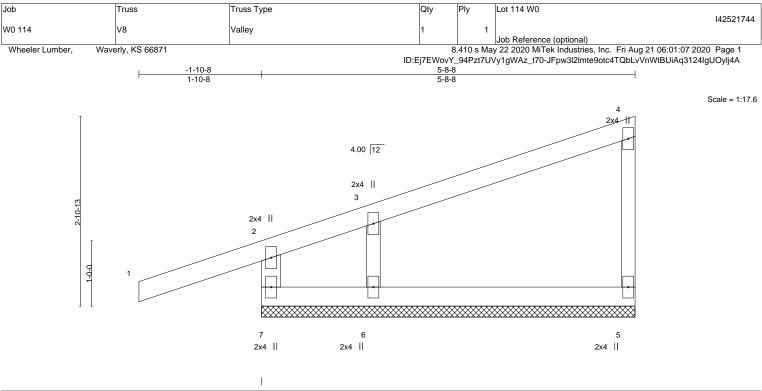


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.01	1 n/r 120	NT00 407/444
TODI 40.0			von(LL) 0.01	1 1/1 120	MT20 197/144
ICDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01	1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00	5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	. /		Weight: 19 lb FT = 10%

BOT CHORD

TOP CHORD

2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* WEBS 4-5: 2x3 SPF No.2 2x3 SPF No.2

OTHERS

REACTIONS. (size) 7=5-8-8, 5=5-8-8, 6=5-8-8 Max Horz 7=124(LC 5) Max Uplift 7=-102(LC 4), 5=-28(LC 4), 6=-76(LC 8) Max Grav 7=248(LC 1), 5=153(LC 1), 6=232(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=102

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.

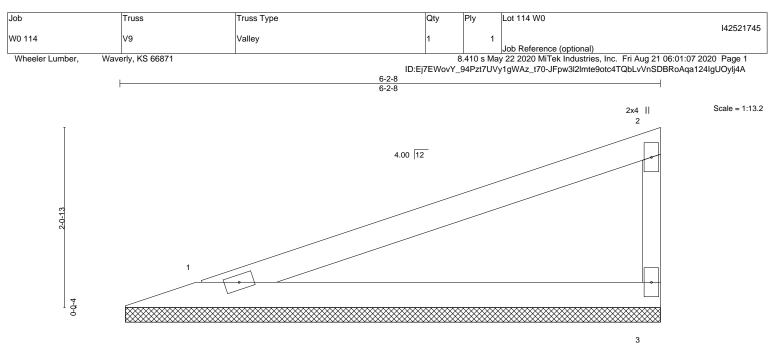


Structural wood sheathing directly applied or 5-8-8 oc purlins,

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

except end verticals.





2x4 ⋍

2x4 ||

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.51 BC 0.28 WB 0.00 Matrix-P	DEFL. i Vert(LL) n// Vert(CT) n// Horz(CT) -0.00	a - n/a 999	PLATES GRIP MT20 197/144 Weight: 15 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP			BRACING- TOP CHORD	Structural wood sheathing except end verticals.	directly applied or 6-2-8 oc purlins,

BOT CHORD

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

REACTIONS. (size) 1=6-1-12, 3=6-1-12 Max Horz 1=77(LC 5) Max Uplift 1=-38(LC 4), 3=-49(LC 8)

2x3 SPF No.2

Max Grav 1=232(LC 1), 3=232(LC 1)

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

NOTES-

WEBS

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.





