

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

Re: 210568 Boyer Res. - Roof

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I53060685 thru I53060790

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

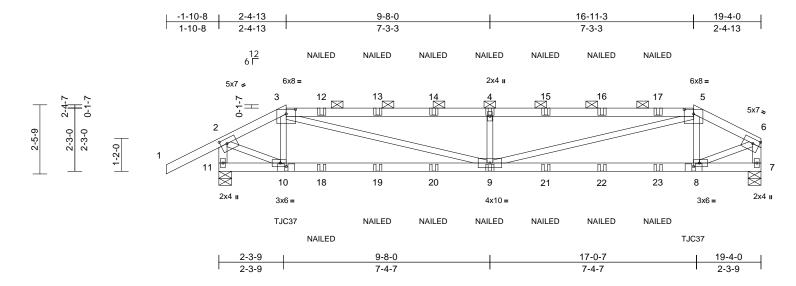


July 14,2022

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these design barameters 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.

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A1	Hip Girder	1	1	Job Reference (optional)	153060685

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:12 ID:kdGU4717SGrLQ7RzXndlLfyKZdq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.1

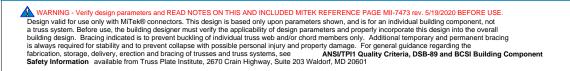
Plate Offsets (X, Y): [2:0-2-12,0-2-0], [3:0-4-0,0-1-15], [5	5:0-4-0,0-	1-15], [6:0-2-12	,0-2-0], [8:0-2-8,0	-1-8], [10	:0-2-8,0-1-8]						
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.87	Vert(LL)	-0.17	(100)	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.66	Vert(CT)	-0.31	8-9	>735	240		10//111
SCLL	0.0*	Rep Stress Incr	NO		WB	0.68	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code		8/TPI2014	Matrix-S	0.00	Wind(LL)	0.15	9	>999	240	Weight: 69 lb	FT = 10%
UMBER			5) * This truce	nas been designe	d for a liv	e load of 20	Opef	-	-			
OP CHORD	2x4 SPF No.2 *Exce	ont* 3-5-2v4 SPF 210			n chord in all area			opsi					
	1.8E	pt 5-5.2x4 611 210	01		by 2-00-00 wide w			om					
OT CHORD	2x4 SPF No.2				ny other members								
/EBS	2x3 SPF No.2 *Exce	ot* 11-2.7-6:2x4 SP	F 6) Provide med	hanical connection	on (by oth	ers) of truss	to					
-	No.2	,			e capable of withs		42 lb uplift a	t					
RACING					323 lb uplift at joir								
OP CHORD	Structural wood she	athing directly applie	dor 7		designed in acco								
	4-9-15 oc purlins, e				Residential Code			and					
	2-0-0 oc purlins (3-3	-7 max.): 3-5.			nd referenced sta								
OT CHORD	Rigid ceiling directly	applied or 6-0-0 oc	8		Irlin representatio			size					
	bracing.			bottom chore	ation of the purlin	along the	e top and/or						
EACTIONS	(lb/size) 7=1008/0	-5-8, 11=1164/0-5-8	9		n Strong-Tie TJC	27 (6 pail	20.00) or						
	Max Horiz 11=69 (LC	C 7)	9		t 2-4-13 from the			ee					
	Max Uplift 7=-323 (L				face of bottom ch								
	Max Grav 7=1019 (L	_C 17), 11=1164 (LC	1)		ing 0.0 deg. dowr		ou con uog						
ORCES	(lb) - Maximum Com	pression/Maximum	1		n Strong-Tie TJC		90-150) or						
	Tension			equivalent a	t 16-11-3 from the	e left end	to connect tr	uss					
OP CHORD	1-2=0/63, 2-3=-1257		3,	(es) to front	face of bottom ch	ord, skew	ed 33.7 deg	to					
	4-5=-3036/803, 5-6=	,			ping 0.0 deg. dow								
	2-11=-1211/322, 6-7				oles where hange			ber.					
OT CHORD	10-11=-105/42, 9-10		1		dicates 3-10d (0.1								
(500	8-9=-366/1196, 7-8=				5") toe-nails per N							SIL	ann
VEBS	3-10=-424/117, 3-9= 4-9=-831/384, 5-9=-				CASE(S) section			face				P OF	MISC
	2-10=-376/1323, 6-8	,	,		are noted as front	(F) 01 ba	ск (б).					TIE	- sold
0750	2-10370/1323, 0-0	-37771203	LOAD CASE(S) Standard								New Y		
OTES	a reaf live leads have	heen considered for	 (0.148"x3.25") toe-nails per NDS guidlines. 13) 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 							\mathbf{I} M. \mathbf{V}			
this design	ed roof live loads have	Deen considered for		Plate Increase=1.15 Uniform Loads (Ib/ft)									
	CE 7-16; Vult=115mph	(3-second quist)			()	5	670 7-11-	-20			20		
	E 7-16; Vult=115mph (3-second gust) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-11=-20 ph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Concentrated Loads (lb)							λ					
	; Enclosed; MWFRS (envelope) exterior zone; Vert: 10=105 (F), 9=-22 (F), 4=-53 (F), 8=105 (F),												
	left and right exposed				F), 13=-53 (F), 14			,,			117	PE-2001	018807 188
	sed; Lumber DOL=1.6				F), 17=-53 (F), 18						N	11-2001	STOOL SB

20=-22 (F), 21=-22 (F), 22=-22 (F), 23=-22 (F)

- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

July 14,2022

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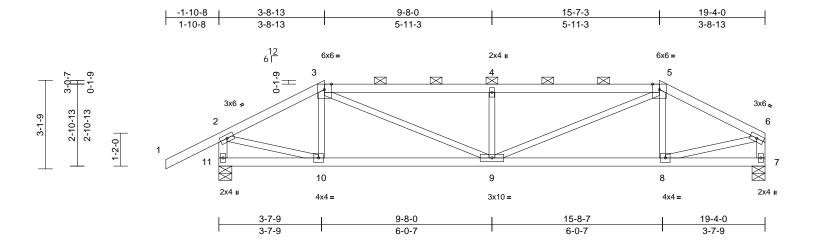


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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A2	Нір	1	1	Job Reference (optional)	153060686

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:14 ID:Z29Bv_JY2Kk4gfiON6XhnVyKZdT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.8

00010 = 111010													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.49 0.34 0.33	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.13 0.02 0.05	(loc) 9 8-9 7 9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 71 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 5-5-7 oc purlins, ex 2-0-0 oc purlins (4-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing; 10	athing directly applie cept end verticals, a -7 max.): 3-5. applied or 10-0-0 or	F ed or _ nd	 on the botton 3-06-00 tall 11 chord and an Provide mechaning plate 11 and 95 lb This truss is International R802.10.2 a Graphical put 	has been design m chord in all are by 2-00-00 wide hy other member hanical connecti e capable of with uplift at joint 7. designed in acco Residential Cod nd referenced rulin representatia ation of the purlir	eas where will fit betw rs. on (by oth standing 1 ordance w le sections andard AN on does no	a rectangle veen the bott ers) of truss 10 lb uplift a th the 2018 R502.11.1 a NSI/TPI 1. ot depict the	tom to ti joint and					
		5-8, 11=1006/0-5-8 C 5)	I	bottom chore OAD CASE(S)	d.	J							
FORCES	(lb) - Maximum Com Tension												
TOP CHORD	1-2=0/63, 2-3=-1091 4-5=-1648/281, 5-6= 2-11=-979/124, 6-7=	-1122/158,	1,										
BOT CHORD	10-11=-60/60, 9-10= 7-8=-30/71	-154/934, 8-9=-122/	970,										
WEBS	3-10=-148/92, 3-9=- 5-9=-169/787, 5-8=- 6-8=-117/925											COL	all
this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever	ed roof live loads have	(3-second gust) DL=6.0psf; h=25ft; (velope) exterior zon ; end vertical left and	Cat. le; d									STATE OF J	

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

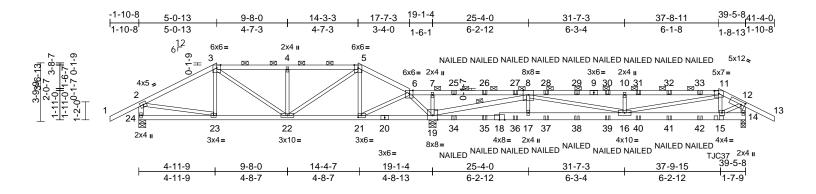
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A3	Roof Special Girder	1	1	Job Reference (optional)	153060687

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:14 ID:_ix1pGA4J8h?iZd11XJL9TyKZcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Plate Offsets (2	X, Y): [6:0-2-14,Edge], [11:0-3-8,0-2-3], [12	::0-2-13,0	0-2-4], [21:0-2-8	8,0-1-8]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.98 0.60 0.72	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.35 0.03	(loc) 16-17 16-17 14 16-17		L/d 360 240 n/a 240	PLATES MT20 Weight: 155 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce SPF No.2 Structural wood she 5-9-0 oc purlins, ex 2-0-0 oc purlins (2-1 Rigid ceiling directly bracing. 1 Row at midpt	2014 24-2,14-12,19-8:2 athing directly applied cept end verticals, and 1-9 max.): 3-5, 6-11. applied or 5-8-9 oc 8-19 -3-8, 19=2158/0-5-8, -5-8 C 6) LC 9), 19=-370 (LC 5 LC 34) -C 17), 19=2158 (LC	N 1) 5.2 x4 2) or 3) 4) 5)), 6)	OTES Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Provide aded This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa chord and ar Provide mec bearing plate joint 24, 396 19.	roof live loads hav 7-16; Vult=115mp 1; TCDL=6.0psf; E Iclosed; MWFRS (t and right expose d; Lumber DOL=1 quate drainage to is been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide w by 0 ther members; hanical connection e capable of withst lb uplift at joint 14 designed in accor	bh (3-sea GCDL=6. envelop d; end .60 plate prevent for a 10. with any d for a liv s where ill fit betw n (by oth anding and 370	considered for cond gust) Dpsf; h=25ft; s) exterior zo vertical left ai grip DOL=1 water pondin D psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss 63 lb uplift ai b) bu uplift at jo	or Cat. ne; nd .60 g. ads. 0psf om to t		Vert: 1- 11-12=- oncentra Vert: 15 28=-15 32=-15	2=-70, -70, 12 ated Lo 5=157 ((F), 29 (F), 33 =-6 (F),	2-3=-70, 3-5=-7(-13=-70, 14-24=- ads (lb) (F), 25=-15 (F), 2)=-15 (F), 30=-15 }=-15 (F), 34=-6 (, 5-6=-70, 6-11=-70, 20 6=-15 (F), 27=-15 (F),
FORCES		197, 3-4=-956/326, 530/371, 6-7=-332/16	8) 65,	International R802.10.2 an Graphical pu or the orienta	Residential Code nd referenced star Irlin representation ation of the purlin a	sections ndard Al n does n	R502.11.1 a SI/TPI 1. ot depict the					5000	ALL .
BOT CHORD	23-24=-57/122, 22-2 21-22=-246/478, 19- 17-19=-368/1507, 10 15-16=-302/871, 14- 3-23=-36/123, 3-22=	1-12=-907/362, 347/188, 12-14=-962/3 23=-154/770, -21=-979/316, 6-17=-368/1506, -15=-100/53 =-195/226,	1(11	equivalent at (es) to front f the right, slop) Fill all nail ho 1) "NAILED" ind (0.148"x3.25	n Strong-Tie TJC3 t 37-8-11 from the face of bottom cho ping 0.0 deg. dow bles where hanger dicates 3-10d (0.1 ") toe-nails per NE	left end ord, skev n. is in coi 48"x3") (DS guidli	to connect tr ved 33.7 deg ntact with lum or 3-12d nes.	to Iber.			E S	STATE OF I	
	4-22=-386/161, 5-22 5-21=-547/177, 6-21 11-15=-442/67, 2-23 12-15=-367/1014, 7- 6-19=-1040/108, 8-1 8-19=-3266/750, 8-1 10-16=-502/241, 11-	l=-263/1347, 3=-158/699, -19=-418/199, 17=0/339, 16=-249/817,		of the truss a	of Live (balanced): ase=1.15	(F) or ba	ck (B).				A Star	PE-2001	018807 ENGINE

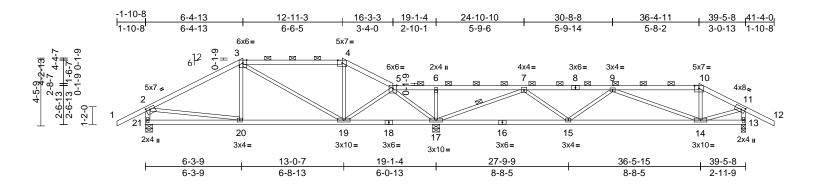
July 14,2022

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NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A4	Roof Special	1	1	Job Reference (optional)	153060688

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:15 ID:iomDSBxfx?4HD?n5aBwa4GyKZa4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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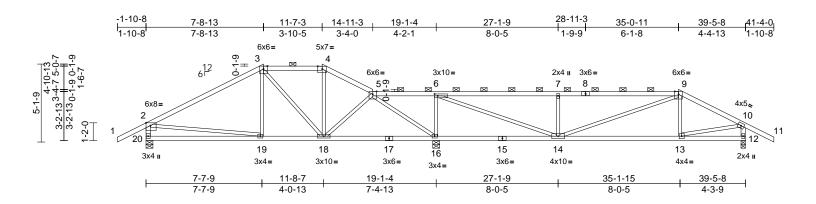
Scale = 1:75.8	X X/. [0:0.0.0.0.4.40	1 [4:0 0 0 0 0 0] [40		01 144-0 0 45	0.0.01								
Plate Offsets ()	X, Y): [2:0-3-0,0-1-12], [4:0-3-8,0-2-3], [10:	:0-3-8,0-2	2-3], [11:0-2-15	,0-2-0]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.65 0.64 0.81	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.26 0.04	(loc) 14-15 14-15 13 14-15	l/defl >999 >939 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 142 lb	GRIP 197/144 FT = 10%
	No.2 Structural wood she 5-7-10 oc purlins, e 2-0-0 oc purlins (5-0 Rigid ceiling directly bracing. 1 Row at midpt	applied or 6-0-0 oc 7-17 3-8, 17=2054/0-5-8, 5-8 C 7) LC 9), 17=-290 (LC S LC 8) LC 22), 17=2054 (LC	3) d or 4) ind 5) 6) 9), 7)	Vasd=91mpl II; Exp C; En cantilever lei right expose Provide adee This truss ha chord live loa * This truss l on the bottoo 3-06-00 tall t chord and au Provide mec bearing plate joint 21, 196 17. This truss is International R802.10.2 a	7-16; Vult=115m h; TCDL=6.0psf; (closed; MWFRS ft and right expos d; Lumber DOL= quate drainage to as been designed ad nonconcurrent has been designed n chord in all are by 2-00-00 wide w by other members hanical connection c capable of withs lb uplift at joint 1 designed in accoor Residential Code nd referenced sta rlin representatio	BCDL=6. (envelope ed; end v 1.60 plate prevent for a 10. with any d for a liv as where vill fit betv s. on (by oth standing 1 3 and 290 wrdance w e sections andard AN	Opsf; h=25ft; e) exterior zo vertical left ar e grip DOL=1. 0 psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss i 28 lb uplift ar b) lb uplift ar jc ith the 2018 s R502.11.1 a NSI/TPI 1.	ne; nd .60 g. ads. Opsf om to t bint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	-,		ation of the purlin								
TOP CHORD	1-2=0/63, 2-3=-895/ 4-5=-528/99, 5-6=-1 7-9=-1222/231, 9-10	64/1173, 6-7=-165/1	172,	DAD CASE(S)								THE OF M	AISSOL
BOT CHORD	20-21=-111/211, 19- 17-19=-249/130, 15- 14-15=-287/1454, 13	-17=-187/766,									A	S SCOTT	
WEBS	3-20=0/225, 3-19=-3 5-19=-105/768, 10-1 11-14=-102/901, 6-1 5-17=-1237/129, 7-1	310/65, 4-19=-216/10 4=0/217, 2-20=-67/5 7=-353/148,	51,							J		PE-2001	018807
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for									Y	ESSIONA	L ENGL

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A5	Roof Special	1	1	Job Reference (optional)	153060689

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:16 ID:E8FhNTKMA8Ecg4pR0c0JvDyKZZZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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ate Offsets ()	X, Y): [2:0-3-8,Ec	ge], [[4:0-3-8,0-2-3], [6:0	-2-8,0-1-8]	-							-	
ading	(ps	f)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.	0	Plate Grip DOL	1.15		TC	0.84	Vert(LL)		13-14	>999	360	MT20	197/144
DL	10.		Lumber DOL	1.15		BC	0.49	Vert(CT)		13-14	>999	240		
CLL	0.	0*	Rep Stress Incr	YES		WB	0.77	Horz(CT)	0.01	12	n/a	n/a		
DL	10.	0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 147 lb	FT = 10%
IMBER OP CHORD OT CHORD EBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *1 No.2	Excep	ot* 20-2,12-10:2x4	SPF	Vasd=91mpl II; Exp C; En cantilever lef right expose	7-16; Vult=115m ; TCDL=6.0psf; closed; MWFRS t and right expos d; Lumber DOL=	BCDL=6.0 (envelope ed ; end v 1.60 plate	Dpsf; h=25ft; e) exterior zo ertical left a grip DOL=1	ne; nd .60					
R ACING OP CHORD	4-10-5 oc purlin	s, ex	athing directly applic ccept end verticals, 10 max.): 3-4, 5-9.		This truss ha chord live loa * This truss h	quate drainage to is been designed ad nonconcurrent has been designe	l for a 10.0 t with any ed for a liv) psf bottom other live loa e load of 20.	ads.					
T CHORD	Rigid ceiling dire bracing.	directly applied or 6-0-0 oc			3-06-00 tall b	n chord in all are by 2-00-00 wide v by other members	will fit betw	0	tom					
	20=80 Max Horiz 20=9 Max Uplift 12=-2 20=-1	59/0-5 7 (LC 00 (L 40 (L 39 (L0	7) _C 9), 16=-295 (LC _C 8) C 22), 16=2005 (LC	9),	bearing plate joint 20, 200 16. This truss is International	hanical connection capable of withs lb uplift at joint 1. designed in accoor Residential Code and referenced sta	standing 1 2 and 295 ordance w e sections	40 lb uplift a lb uplift at jo th the 2018 R502.11.1	it pint					
RCES	(lb) - Maximum Tension					rlin representation of the purlin			size					
OP CHORD	,	6=-69 9-10=	9/706, 6-7=-1158/28 =-1043/199, 10-11=	· · ·	bottom chord DAD CASE(S)		c	-					CONTRACT OF M	ADD
T CHORD	19-20=-176/353 16-18=-9/259, 1 13-14=-108/883	4-16=	=-705/157,									B	STATE OF M	MISSOLUTION IN
BS		-13=- , 6-16 6-14=	=-363/1959,									8	SECTION SECTION	ER
TES												87	PE-2001	
Unbalance	d roof live loads h	ave t	been considered fo	r								N	11-2001	128

this design.

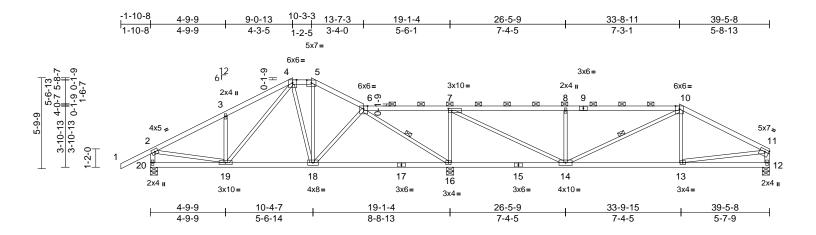
July 14,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A6	Roof Special	1	1	Job Reference (optional)	153060690

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:16 ID:46CFLy07kfPW0rgOs5YhjEyKZYg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.4

Plate Offsets (X, Y): [5:0-3-8,0-2-3]	, [7:0-2-8,0-1-8], [11:E	Edge,0-1-	12]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.67 0.48 0.55	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.22 0.01	(loc) 16-18 16-18 12 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 151 lb	GRIP 197/144 FT = 10%
UMBER OP CHORD OT CHORD VEBS BRACING OP CHORD BOT CHORD VEBS EACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 4-11-2 oc purlins, e 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 14 1 Row at midpt (lb/size) 12=779/0 20=863/0 Max Horiz 20=112 (I Max Uplift 12=-148 20=-145 (I Max Grav 12=791 (I 20=863 (I Max Grav 12=791 (I 20=863 (I (Ib) - Maximum Com Tension 1-2=0/63, 2-3=-891/	ept* 20-2,12-11:2x4 S eathing directly applie except end verticals, a l-5 max.): 4-5, 6-10. <i>r</i> applied or 10-0-0 oc l-16. 10-14, 6-16 l-5-8, 16=2025/0-5-8, l-5-8 LC 5) (LC 9), 16=-315 (LC S (LC 8) LC 22), 16=2025 (LC LC 1) npression/Maximum (125, 3-4=-881/228, 615/117, 6-7=-54/614 =-874/235, -20=-814/170, 19=-18/521,	1) 2) PF d or 3) 1), 5) 6) 3), 7) 1), 7) 8)	Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En rantilever lef right expose Provide ader This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Provide mec bearing plate joint 20, 148 16. This truss is International R802.10.2 a Graphical put	roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; iclosed; MWFRS if and right expos d; Lumber DOL= quate drainage to as been designed an onconcurren has been designed n chord in all are by 2-00-00 wide v hy other member thanical connective e capable of withs Ib uplift at joint 1 designed in acco Residential Cod nd referenced sta rinin representatic ation of the purlind.	aph (3-see BCDL=6. (envelop ed; end 1 1.60 plate prevent i for a 10. t with any ed for a line as where will fit betw s. on (by oth standing 1 2 and 31 2 and a1 2 and	considered for considered for cond gust) Opsf; h=25ft; a) exterior zo vertical left ai grip DOL=1 water pondin D psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss 45 lb uplift at jo ib uplift at jo ith the 2018 a R502.11.1 at JSI/TPI 1. ot depict the	Cat. ine; ind .60 g. ads. 0psf to t to t bint	13-14	>999	240	STATE OF N	MISSOLUTE MISSOLUTE
WEBS	13-14=-130/880, 12	-13=-61/154 =0/208, 10-13=0/192, 3=-79/737, -14=-96/3, 4=-308/1605, 19=-310/182,								•	B	PE-2001	188
NOTES	1.10-101/040, 410	- 100/00										SSIONA	L ENCE

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

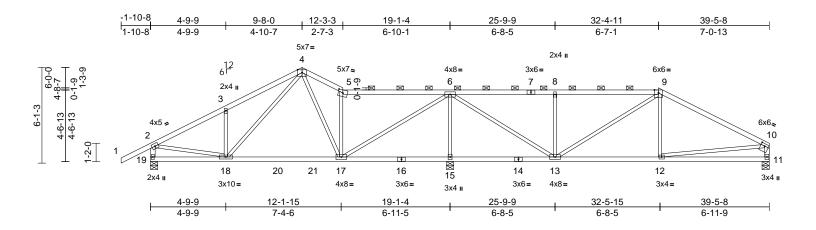


July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A7	Roof Special	1	1	Job Reference (optional)	153060691

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Wed Jul 13 07:57:17 ID:KTPCewMlblOmqufjsv1jjfyKZWx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.5

19=-150 (LC 8)

19=883 (LC 2)

(lb) - Maximum Compression/Maximum

1-2=0/63, 2-3=-986/128, 3-4=-991/244,

8-9=-692/210, 9-10=-1049/204, 2-19=-838/168, 10-11=-739/186

18-19=-100/106, 17-18=-26/534, 15-17=-492/115, 13-15=-492/115, 12-13=-111/858, 11-12=-89/248

4-18=-150/499, 4-17=-57/225,

1) Unbalanced roof live loads have been considered for

5-17=-582/194, 6-17=-98/1275, 6-15=-1853/393, 6-13=-238/1361, 8-13=-473/204, 9-13=-247/31, 9-12=0/233, 2-18=-36/806, 10-12=-60/622, 3-18=-348/201

4-5=-693/148, 5-6=-596/114, 6-8=-690/209,

11=819 (LC 24), 15=2081 (LC 2),

Max Grav

Tension

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.

Plate Offsets (X, Y): [5:0-3-8,0-2-4],	[10:Edge,0-1-12]											
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.72 0.45	DEFL Vert(LL) Vert(CT)	in -0.11 -0.20	(loc) 17-18 17-18	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES	3/TPI2014	WB Matrix-S	0.45	Horz(CT) Wind(LL)	0.01 0.04	11	>999 n/a >999	240 n/a 240	Weight: 151 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 3-4-13 oc purlins, e 2-0-0 oc purlins (6-0	athing directly applie xcept end verticals,	3) ed or 4)	Vasd=91mpl II; Exp C; En cantilever lef right expose Provide adeo This truss ha chord live loa * This truss h	7-16; Vult=11 n; TCDL=6.0p closed; MWFI t and right exp d; Lumber DC quate drainage is been design ad nonconcurr nas been design	sf; BCDL=6. RS (envelope bosed ; end v DL=1.60 plate e to prevent v ned for a 10.0 rent with any gned for a liv	Opsf; h=25ft; e) exterior zcr ertical left a grip DOL=1 water pondin 0 psf bottom other live loa e load of 20.	one; nd .60 ng. ads.					
	Rigid ceiling directly bracing. (Ib/size) 11=791/0 19=876/0 Max Horiz 19=116 (I Max Uplift 11=-150 (-5-8, 15=2000/0-5-8 -5-8 _C 7)	3-06-00 tall to chord and an Provide mec bearing plate	n chord in all a by 2-00-00 wic by other memb hanical conne capable of w Ib uplift at joir	de will fit betw bers, with BC ection (by oth rithstanding 1	veen the bot DL = 10.0ps ers) of truss 50 lb uplift a	sf. to at						

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

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

LOAD CASE(S) Standard



MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	A8	Roof Special Girder	1	3	Job Reference (optional)	153060692

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:17 ID:W1LIjrOUALB9gpirXIaqa2yKYyI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

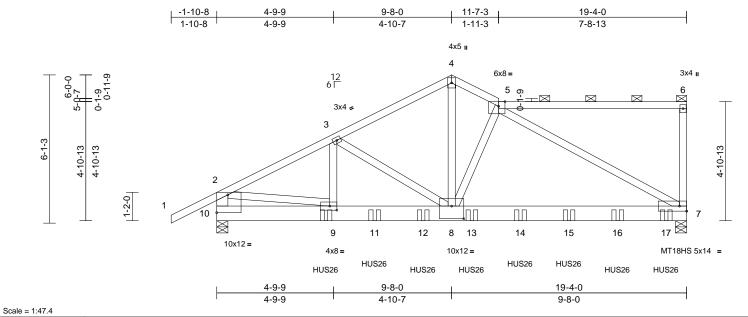


Plate Offsets (X, Y): [5:0-3-3,Edge], [8:0-6-0,0-6-4], [9:0-3-8,0-2-0], [10:Edge,0-8-13]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.49	Vert(LL)	-0.22	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.37	7-8	>614	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.79	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.11	7-8	>999	240	Weight: 377 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x8 SP DSS 2x4 SPF No.2 *Exc Structural wood sh 6-0-0 oc purlins, e 2-0-0 oc purlins (6- Rigid ceiling directl bracing.	y applied or 10-0-0 or 0-5-8, 10=5957/0-5-8 (LC 5)	ed or 5 nd 6 7 8	Vasd=91mpi II; Exp C; En cantilever let right expose Provide adee All plates are This truss ha chord live los • This truss b on the botton 3-06-00 tall li chord and an	57-16; Vult=115n h; TCDL=6.0psf; iclosed; MWFRS ft and right expose d; Lumber DOL= quate drainage to e MT20 plates ur as been designed an onconcurren has been designed m chord in all are by 2-00-00 wide ny other member	BCDL=6. (envelope sed; end v 1.60 plate p prevent v hless other d for a 10. t with any eed for a liv pas where will fit betw s.	Opsf; h=25ft; a) exterior zc vertical left ai grip DOL=1 water pondin wise indicate 0 psf bottom other live loz re load of 20. a rectangle veen the bott	nne; nd .60 g. ed. ads. 0psf	Ci	oncentra Vert: 9= 13=-140	ated Lo =-1960 01 (B),	,	
FORCES	Max Grav 7=8147		1)	bearing plate joint 7 and 5	hanical connecti e capable of with 42 lb uplift at joir	standing 5 nt 10.	510 lb uplift a						
TOP CHORD	1-2=0/66, 2-3=-876 4-5=-8588/638, 5-6 2-10=-5372/529	1/744, 3-4=-8507/60 =-224/57, 6-7=-285/1	<u>2,</u> 07,	International R802.10.2 a	designed in acco Residential Cod nd referenced sta urlin representatio	le sections andard AN	s R502.11.1 a ISI/TPI 1.						
BOT CHORD	9-10=-281/1518, 8- 7-8=-594/7544	9=-702/7746,		or the orienta	ation of the purlir d.	n along the	e top and/or						
WEBS		=-494/7564, 5-8=-71 =-482/421, 3-9=-446		Truss) or eq	n Strong-Tie HU3 uivalent at 4-6-0 back face of botte					Contraction of the local sector	all		
1) 3-ply truss (0.131"x3" Top chord	s to be connected tog ") nails as follows: ds connected as follow 2 rows staggered at 0	vs: 2x4 - 1 row at 0-9-	0	 Truss) or equivalent at 4-6-0 from the left end to connect truss(es) to back face of bottom chord. 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 cc max. starting at 6-6-0 from the left end to 8-6-0 to connect truss(es) to back face of bottom chord. SEVIER 									
Bottom ch staggered Web conn 2) All loads a except if r CASE(S) provided t	 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 			 14) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 10-6-0 from the left end to 18-6-0 to connect truss(es) to back face of bottom chord. 15) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/tt) 							Server 018807		
	ed roof live loads have	e been considered fo		Plate Increa Uniform Lo								WNA	LE

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

late Increase=1.15 Uniform Loads (lb/ft)

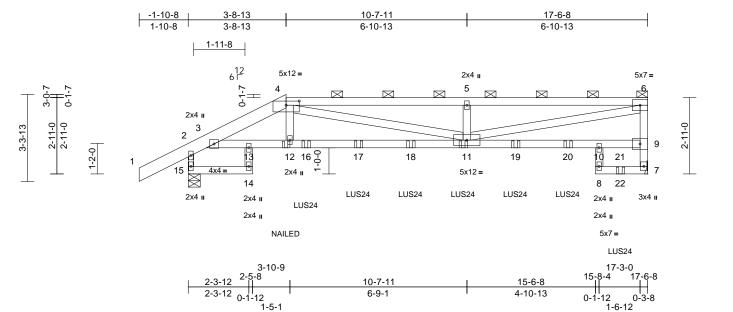
July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B1	Half Hip Girder	1	2	Job Reference (optional)	153060693

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:17 ID:aRmO_Ev4yR2dJR__Rm2hshyKYdR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:44

Plate Offsets (X, Y): [4:0-6-0,0-1-15]

			-										
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.82	Vert(LL)	-0.20	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.92	Vert(CT)	-0.36	11-12	>580	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.57	Horz(CT)	0.14	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.13	11-12	>999	240	Weight: 148 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SPF No.2 *Exce 2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (4-6	o.2 ed or ³⁾	except if not CASE(S) se provided to o unless other Unbalanced this design. Wind: ASCE	considered equal ed as front (F) or b ction. Ply to ply co distribute only load wise indicated. roof live loads hav 7-16; Vult=115mp	back (B) nnection ls noted ve been bh (3-seo	face in the LC s have been as (F) or (B), considered fo cond gust)	r	PI Ur Co	ate Incre hiform Lo Vert: 1-: 10-13=- oncentra Vert: 11 (B), 18=	ease=1 bads (II 2=-70, 20, 7-8 ited Lo =-249	.15 b/ft) 2-4=-70, 4-6=-70 3=-20 ads (Ib) (B), 12=-31 (B), 7	nber Increase=1.15, 1, 14-15=-20, 16=-249 (B), 17=-249 20=-249 (B), 21=-269	
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	;		h; TCDL=6.0psf; B closed; MWFRS ((B)			
	(lb/size) 7=1845/ I 15=1642/ Max Horiz 15=68 (Li Max Uplift 7=-177 (L (lb) - Maximum Com Tension	, ,	DOL=1.60 p Provide ader All plates are This truss ha chord live loa * This truss l on the botton 3-06-00 tall l	posed ; end vertica late grip DOL=1.6 quate drainage to ja 2 xx4 MT20 unless as been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide win y other members.	o prevent s otherwi for a 10. with any d for a liv s where ill fit betv	water ponding se indicated. 0 psf bottom other live loa e load of 20.0 a rectangle	g. ds.)psf						
BOT CHORD	2-15=-1635/174 14-15=0/0, 3-13=-40 12-13=-402/3232, 1 10-11=-34/454, 9-10	02/3232, 1-12=-410/3303,	10	 9) Refer to girder(s) for truss to truss connections. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 7 and 149 lb uplift at joint 15. 11) This truss is designed in accordance with the 2018 								de la compañía	
	4-12=-82/832, 5-11= 4-11=-126/1772		· 1	 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 								AISSO A	
NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:			13	 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-6-0 from the left end to 16-6-0 to connect truss(es) to back face of bottom chord. 14) Eil ensil helps where henerary is representative to the thereary is represented to the thereary is the truthereary is the trut							Servier		

14) Fill all nail holes where hanger is in contact with lumber.

15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d

(0.148"x3.25") toe-nails per NDS guidlines.

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

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

LOAD CASE(S) Standard

July 14,2022

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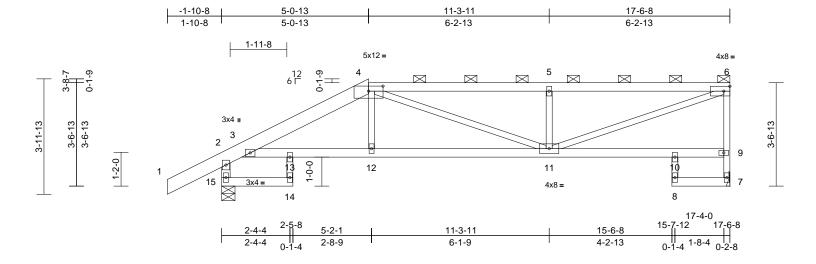
Page: 1



SIONAL

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B2	Half Hip	1	1	Job Reference (optional)	153060694

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:18 ID:YLlioUbyRy8_aiXr?5Y_PjyKYZy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:39.8

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

	(, .). [
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.51 0.46 0.51	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.15 0.09	(loc) 11-12 11-12 7 11-12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 70 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 5-9-0 oc purlins, ex 2-0-0 oc purlins (4-2	ept* 15-2:2x4 SPF N eathing directly appli cept end verticals, a 2-12 max.): 4-6.	b.2 lo.2 ed or and	on the botto 3-06-00 tall chord and a 7) Refer to gird 8) Provide me bearing plat 7 and 11 lb	has been designe om chord in all area by 2-00-00 wide w any other members der(s) for truss to t chanical connection te capable of withs uplift at joint 15. s designed in acco	as where vill fit betw s. russ conr n (by oth tanding 4	a rectangle veen the botto nections. ers) of truss t l3 lb uplift at j	om					
REACTIONS	bracing.	lechanical, 15=928/(LC 5)	1-5-8	R802.10.2 a 0) Graphical p or the orien	al Residential Code and referenced sta purlin representatio tation of the purlin	ndard AN n does no	ISI/TPI 1. ot depict the s						
FORCES	(lb) - Maximum Com Tension 1-2=0/63, 2-3=-236/ 4-5=-1460/75, 5-6=-	npression/Maximum /29, 3-4=-1409/61, ·1459/75, 7-9=-745/9	L	bottom cho OAD CASE(S									
BOT CHORD	12-13=-115/1229, 1 10-11=-38/59, 9-10= 13-14=-3/47, 8-10=0	15/1229, 1-12=-112/1235, 38/59, 7-8=0/0 0/29, 6-11=-92/1494											
this design 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D	4-12=0/242, 5-11=-4 ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I IOL=1.60 plate grip DC dequate drainage to pr	been considered for (3-second gust) DL=6.0psf; h=25ft; nvelope); cantilever left and right expose DL=1.60	or Cat. left ed;							ر		STATE OF J	HER Server

- Provide adequate drainage to prevent water ponding.
 All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.



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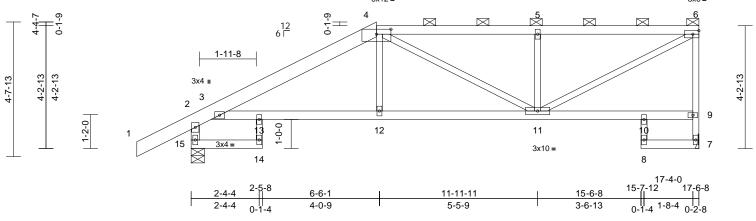


	Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
2	210568	B3	Half Hip	1	1	Job Reference (optional)	153060695

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:18 ID:HE8A8r_X2Uy1i_5i2zbBuFyKYWt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

6-4-13 11-11-11 17-6-8 -1-10-8 1-10-8 6-4-13 5-6-13 5-6-13 5x12 = 3x6 = 0-1-9 4 5 6 0-1-9 \square \square \square 12 6 Г 1-11-8 3x4 II 3



Scale = 1:39.8

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

	(X, 1). [4.0 0 0,0 2 1]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.41 0.49 0.40	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	0.10	(loc) 12-13 12-13 7 12-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x3 SPF No.2 *Exce Structural wood she 5-8-12 oc purlins, e 2-0-0 oc purlins (5-2 Rigid ceiling directly bracing.	ept* 15-2:2x4 SPF N athing directly appli xcept end verticals, -15 max.): 4-6. applied or 10-0-0 o	o.2 7) ed or 8) and c 9)	on the botto 3-06-00 tall chord and a) Refer to girc Provide mec bearing plate 7 and 18 lb) This truss is International	has been designed m chord in all area by 2-00-00 wide w hy other members ler(s) for truss to tr shanical connectio e capable of withs uplift at joint 15. designed in accor Residential Code nd referenced sta	as where vill fit betw cuss conr n (by oth tanding 4 rdance w e sections	a rectangle veen the botto nections. ers) of truss t 4 lb uplift at j ith the 2018 5 R502.11.1 a	om to oint					
REACTIONS	(lb/size) 7=770/ M Max Horiz 15=142 (L Max Uplift 7=-44 (LC)-5-8 1(0) Graphical pu	urlin representation ation of the purlin	n does no	ot depict the s	size					
FORCES	(lb) - Maximum Com Tension		L	OAD CASE(S)									
TOP CHORD	1-2=0/63, 2-3=-254/ 4-5=-1054/48, 5-6=- 6-9=-713/70, 2-15=-	1053/48, 7-9=-748/5	55,										
BOT CHORD	14-15=0/0, 3-13=-10 12-13=-108/1083, 1 10-11=-55/48, 9-10= 13-14=-7/43, 8-10=0	08/1083, 1-12=-106/1089, 55/48, 7-8=0/0											
	4-12=0/252, 5-11=-4	,	,										1000
this design 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er sxposed ; end vertical I OL=1.60 plate grip DC dequate drainage to pr	(3-second gust) DL=6.0psf; h=25ft; (nvelope); cantilever left and right expose DL=1.60	Cat. left ed;							8		STATE OF D STATE OF D SEV	Server

- Provide adequate drainage to prevent water ponding.
 All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

SSIONAL E July 14,2022

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

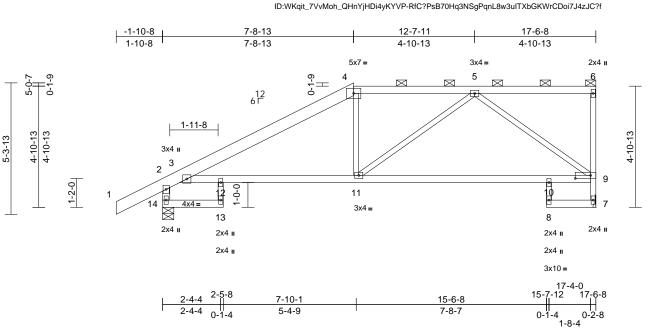
PE-200101880

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B4	Half Hip	1	1	Job Reference (optional)	153060696

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:19

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:46.6

Plate Offsets (X, Y): [9:0-7-8,0-1-8]

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.00	DEFL Vert(LL)	in -0.21	(loc) 10-11	l/defl >996	L/d 360	PLATES MT20	GRIP 197/144
TCLL (1001)	25.0 10.0	Lumber DOL	1.15		BC	0.68 0.69	Vert(LL)	-0.21 -0.42	10-11	>996 >497	360 240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.81	Horz(CT)	0.42	7	n/a	n/a		
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		Wind(LL)		11-12		240	Weight: 72 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 *Exce	ept* 14-2:2x4 SPF N athing directly applic cept end verticals, a	o.2 8) ed or	bearing plate 7 and 24 lb u This truss is International R802.10.2 au Graphical pu or the orienta	hanical connectio e capable of withs uplift at joint 14. designed in accor Residential Code nd referenced sta rlin representation ation of the purlin	tanding 4 rdance w sections ndard AN n does no	th the 2018 R502.11.1 a ISI/TPI 1. Dt depict the	joint and					
BOT CHORD		,		bottom chord DAD CASE(S)									
REACTIONS	0	,											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD		6/17, 7-9=-744/60,											
BOT CHORD	13-14=0/0, 3-12=-86 10-11=-115/750, 9-1	,	,										
WEBS	3S 12-13=-10/46, 8-10=0/22, 4-11=0/201, 5-11=0/332, 5-9=-899/115												
NOTES												000	an
 Unbalance this designed 	ced roof live loads have	been considered for	r									E OF	MISS
 Wind: AS Vasd=91i II; Exp C; and right Lumber D Provide a This truss 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed; end vertical DOL=1.60 plate grip DC adequate drainage to pr s has been designed fo b load nonconcurrent wi	DL=6.0psf; h=25ft; (nvelope); cantilever l left and right expose lL=1.60 event water ponding r a 10.0 psf bottom	eft d; j.							-		STATE OF J SCOT SEV NUM PE-2001	inter the second
E) * This true	an han hann daaignad f	or a live load of 20 C	nof								- XX '		IN H

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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

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July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B5	Half Hip	2	1	Job Reference (optional)	153060697

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Wheeler Lumber, Waverly, KS - 66871,

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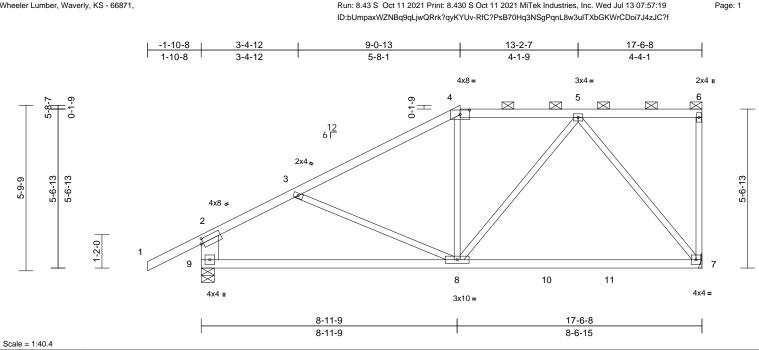


Plate Offsets (X, Y): [2:0-1-0,0-2-0], [4:0-4-0,0-1-15]

	7, 1). [2.0 1 0,0 2 0],	[+.0 + 0,0 1 10]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.89 0.68 0.82	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.21 -0.36 0.02 0.04	(loc) 7-8 7-8 7 7-8	l/defl >972 >566 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 70 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 2100F 1.8E No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (lb/size) 7=761/ M	ppt* 9-2:2x8 SP DSS athing directly applie cept end verticals, a I-0 max.): 4-6.	6) 7) ed or nd 8) c	on the botton 3-06-00 tall li chord and an Refer to gird Provide mec bearing plate 7 and 30 lb o This truss is International R802.10.2 a	has been designed in chord in all area by 2-00-00 wide wi hy other members, er(s) for truss to tr shanical connection e capable of withst uplift at joint 9. designed in accor Residential Code nd referenced star Irlin representation	ill fit betw , with BC uss con n (by oth anding 4 dance w sections ndard AN	a rectangle veen the bott DL = 10.0ps hections. ers) of truss 16 lb uplift at hthe 2018 \$ R502.11.1 at USI/TPI 1.	to joint					
	Max Horiz 9=186 (LC Max Uplift 7=-46 (LC Max Grav 7=809 (LC (lb) - Maximum Com Tension	C 5) C 5), 9=-30 (LC 8) C 2), 9=934 (LC 2)		or the orienta bottom chore DAD CASE(S)		along the	e top and/or						
TOP CHORD BOT CHORD WEBS	1-2=0/68, 2-3=-914/ 4-5=-711/38, 5-6=-7 2-9=-843/74 8-9=-137/706, 7-8=- 3-8=-29/115, 4-8=-4 5-7=-723/80	1/46, 6-7=-126/34, 80/467											200
this design 2) Wind: ASC Vasd=91m	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC	(3-second gust) DL=6.0psf; h=25ft; (Cat.								A.	STATE OF J	MISSOLAT T. M. IER

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

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B6	Half Hip	2	1	Job Reference (optional)	153060698

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Page: 1

Wheeler Lumber, Waverly, KS - 66871,

ID:jod?0pHilsu3VAcEAt?kbKyKYTv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 17-6-8 -1-10-8 4-8-3 10-4-13 ┝ 1-10-8 4-8-3 5-8-11 7-1-11 5x7 = 3x4 II 4 5 6-4-7 0-1-7 0-1-7 \bowtie \bowtie \bowtie 12 6 Г 2x4 💊 3 6-2-9 6-3-0 6-3-0 6-3-0 4x8 ≠ 2 1-2-0 8 6 \ge 7 9 10 4x4 II 3x6 = 3x4 = 8-8-5 17-6-8 8-8-5 8-10-3

Scale = 1:43.5

Plate Offsets (X, Y): [2:0-1-0,0-2-0], [4:0-3-8,0-2-3], [5:Edge,0-2-8]

	(A, T). [2.0-1-0,0-2-0],	[4.0-3-0,0-2-3], [3.1	_uye,0-2-0j		-								
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.96 0.72 0.59	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.45 0.02	(loc) 6-7 6-7 6	l/defl >795 >456 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	B/TPI2014	Matrix-S		Wind(LL)	0.05	6-7	>999	240	Weight: 67 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce	ppt* 8-2:2x8 SP DSS athing directly appli	6 8) ed,	Provide med bearing plate 6 and 34 lb This truss is International R802.10.2 a Graphical pu or the orient	ler(s) for truss to chanical connecti e capable of with uplift at joint 8. designed in acc. I Residential Cod nd referenced st urlin representati ation of the purlir	ion (by oth istanding 4 ordance w de sections andard AN on does no	ers) of truss 8 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the	joint and					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o 4-6		bottom chor DAD CASE(S)									
		echanical, 8=933/0- C 5) C 5), 8=-34 (LC 8)	5-8										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/68, 2-3=-973/ 4-5=-78/55, 5-6=-23												
BOT CHORD WEBS	7-8=-127/775, 6-7=- 3-7=-124/124, 4-7=0												
this design 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D 3) Provide ac	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DO dequate drainage to pr has been designed for	(3-second gust) DL=6.0psf; h=25ft; hvelope); cantilever left and right expose JL=1.60 event water ponding	Cat. left ed;									STATE OF SEV	IER Some

- З 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B7	Half Hip	2	1	Job Reference (optional)	153060699

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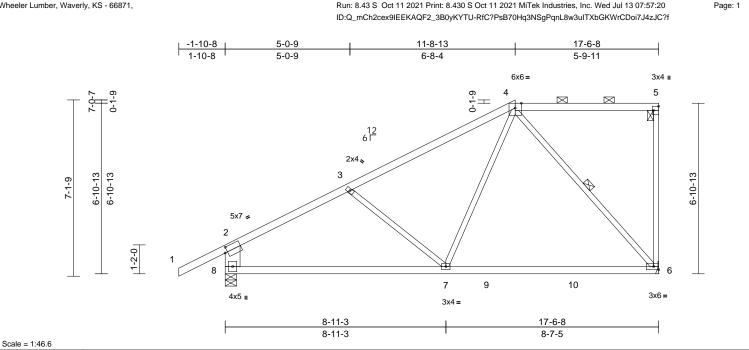


Plate Offsets (X, Y): [2:0-1-4,0-2-8], [5:Edge,0-2-8]

- 1010 0110010 ()	A, f). [2.0-1-4,0-2-6],	[5.Luge,0-2-0]											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.94	DEFL Vert(LL)	in -0.26	(loc) 6-7	l/defl >779	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.34	Vert(CT)	-0.20	6-7	>468	240	101120	137/144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.50	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.06	6-7	>999	240	Weight: 69 lb	FT = 10%
LUMBER FOP CHORD BOT CHORD WEBS BRACING FOP CHORD	2x4 SPF 2100F 1.8E No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood shea	pt* 8-2:2x8 SP DSS	8 8j	Provide med bearing plate 6 and 36 lb u This truss is International R802.10.2 a	er(s) for truss to hanical connecti a capable of with uplift at joint 8. designed in acco Residential Cod nd referenced st rlin representatio	on (by othe standing 4 ordance wi le sections andard AN	ers) of truss 9 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1.	joint and					
BOT CHORD	2-2-0 oc purlins, exe 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	-0 max.): 4-5.	с		ation of the purlir 1.			5120					
WEBS	1 Row at midpt	4-6											
	(lb/size) 6=761/ Me Max Horiz 8=230 (LC Max Uplift 6=-49 (LC Max Grav 6=822 (LC	5), 8=-36 (LC 8)	5-8										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/68, 2-3=-991/6 4-5=-85/60, 5-6=-18												
BOT CHORD WEBS	7-8=-134/809, 6-7=- 3-7=-222/142, 4-7=0												
NOTES												and	alle
this design 2) Wind: ASC Vasd=91m II; Exp C; E and right e	ed roof live loads have h. CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er xposed ; end vertical I DL=1.60 plate grip DO	(3-second gust) DL=6.0psf; h=25ft; (avelope); cantilever l eft and right expose	Cat. left									STATE OF SCOT	MISSOLAR T. M. HER

- 3) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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July 14,2022

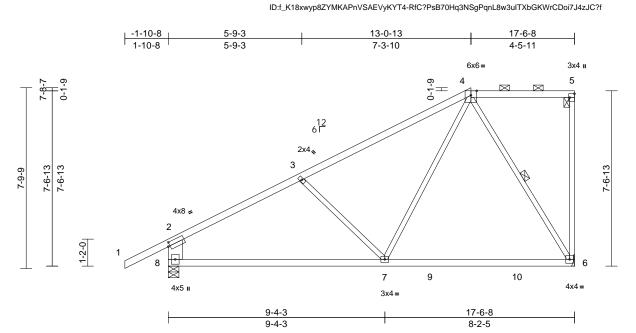
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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B8	Half Hip	2	1	Job Reference (optional)	153060700

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Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:49.7 Plate Offsets (X, Y): [2:0-1-0,0-2-0], [5:Edge,0-2-8]

	, i). [2.0-1-0,0-2-0],	, [J.Luge,0-2-0]				-							
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.77 0.67 0.46	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.38 0.02	(loc) 6-7 6-7 6	l/defl >863 >540 n/a	L/d 360 240 n/a	MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-	Wind(LL)	0.07	6-7	>999	240	Weight: 70 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF 2100F 1.8E No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 5-4-6 oc purlins, ex 2-0-0 oc purlins (6-0	ept* 8-2:2x8 SP DS athing directly appli cept end verticals, a	S 8) ied or	Provide med bearing plate 6 and 36 lb This truss is International R802.10.2 a Graphical pu	ler(s) for truss to t chanical connectic e capable of withs uplift at joint 8. designed in acco I Residential Code ind referenced sta urlin representatio ation of the purlin	on (by oth standing s rdance w e sections indard An n does n	ers) of truss 51 lb uplift at ith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the	joint and					
BOT CHORD	Rigid ceiling directly			bottom chor									
WEBS REACTIONS		5), 8=-36 (LC 8)		DAD CASE(S)	Standard								
FORCES	(lb) - Maximum Corr		n										
TOP CHORD BOT CHORD	4-5=-92/67, 5-6=-13	8/47, 2-8=-828/84											
WEBS	3-7=-306/155, 4-7=0												
NOTES												000	The
this design 2) Wind: ASC Vasd=91m II; Exp C; I and right e Lumber D0	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical OL=1.60 plate grip DC dequate drainage to pr	i (3-second gust) iDL=6.0psf; h=25ft; hvelope); cantilever left and right expose DL=1.60	Cat. left ed;									STATE OF J	MISSOUR T.M. IER

- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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



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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	В9	Half Hip	2	1	Job Reference (optional)	153060701

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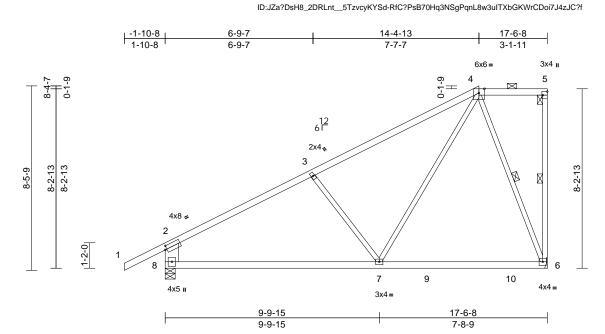


Plate Offsets (X Y)	[2.0-1-0 0-2-0]	[5·Edge 0-2-8]

Scale = 1:52.9

Plate Offsets	(X, Y): [2:0-1-0,0-2-0],	, [5:Edge,0-2-8]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.76 0.69 0.47	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.34 0.02 0.06	(loc) 6-7 7-8 6 6-7	l/defl >999 >603 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 71 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce	ept* 8-2:2x8 SP DS athing directly appli xcept end verticals,	S 8) ied or	Provide med bearing plat 6 and 35 lb This truss is Internationa R802.10.2 a Graphical po or the orient	ler(s) for truss to t chanical connectic e capable of withs uplift at joint 8. designed in acco I Residential Code ind referenced sta urlin representatio ation of the purlin	on (by oth standing 5 ordance w e sections andard AN on does no	ers) of truss i2 lb uplift at ith the 2018 is R502.11.1 a ISI/TPI 1. ot depict the	joint and					
BOT CHORD WEBS REACTIONS	bracing. 1 Row at midpt	5-6, 4-6 echanical, 8=933/0- C 5) C 5), 8=-35 (LC 8)	LC	bottom chor									
FORCES	(lb) - Maximum Com Tension												
TOP CHORD BOT CHORD WEBS NOTES	4-5=-100/73, 5-6=-8	7/47, 2-8=-823/88 78/277	6										
 Unbalance this desig Wind: AS Vasd=911 II; Exp C; and right Lumber D Provide a 	ed roof live loads have in. ICE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OCL=1.60 plate grip DC odequate drainage to pr s has been designed for	(3-second gust) DL=6.0psf; h=25ft; hvelope); cantilever left and right expose DL=1.60 revent water ponding	Cat. left ed;									STATE OF J STATE OF J SEV	MISSOLA TM. ER

- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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



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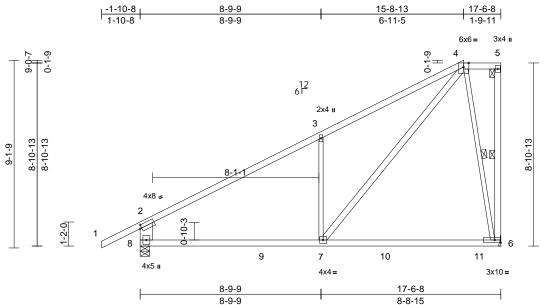
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July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B10	Half Hip	2	1	Job Reference (optional)	153060702

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Scale = 1:56

Plate Offsets (X, Y): [2:0-1-0,0-2-0]

			-			-							
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.76 0.70 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.47 0.01	(loc) 6-7 6-7 6	l/defl >705 >434 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		Wind(LL)	-0.06	6-7	>999	240	Weight: 80 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	No.2 2x4 SPF No.2 *Exce No.2, 8-2:2x8 SP DS Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt	pt* 7-3,6-4:2x3 SPF SS athing directly applie cept end verticals, ar -0 max.): 4-5. applied or 10-0-0 oc 5-6, 4-6 echanical, 8=931/0-5 2 5)	6) 7) d or nd 8) 	on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 6 and 33 lb u This truss is International R802.10.2 a Graphical pu		as where vill fit betw s, with BC russ conr on (by oth standing 5 rdance w e sections indard AN n does no	a rectangle veen the bott DL = 10.0ps nections. ers) of truss 64 lb uplift at ith the 2018 6 R502.11.1 a JSI/TPI 1. bt depict the	to joint					
	Max Grav 6=865 (LC												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=0/68, 2-3=-1027 4-5=-114/78, 5-6=-5	0/56, 2-8=-838/85 81/170	121									- COL	an
 this design Wind: ASC Vasd=91n II; Exp C; and right e Lumber D Provide ac This truss 	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical l OL=1.60 plate grip DC dequate drainage to pr has been designed for	(3-second gust) DL=6.0psf; h=25ft; C ivelope); cantilever le eft and right exposed L=1.60 event water ponding.	eat. eft d;									STATE OF J	BER

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

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



July 14,2022

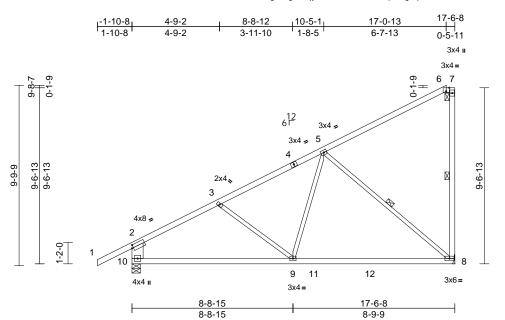
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B11	Half Hip	2	1	Job Reference (optional)	153060703

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:21 ID:DmZMAXAd0I?9gvO9gannnjyKYQA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:62.6
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Plate Offsets (X, Y): [2:0-1-0,0-2-0], [6:0-2-0, Edge]

						-				-		i	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.94 0.70 0.62	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.24 -0.41 0.02 -0.06	(loc) 8-9 8-9 8 8-9	l/defl >859 >496 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 74 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	1.8E 2x4 SPF No.2 2x3 SPF No.2 *Exce 10-2:2x8 SP DSS Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly	pt* 7-8:2x4 SPF No. athing directly applie cept end verticals, au -0 max.): 6-7.	.2, 6) 7) ed or nd 8)	on the botton 3-06-00 tall li chord and an Refer to gird Provide mec bearing plate 8 and 29 lb to This truss is International R802.10.2 a	has been designe in chord in all area by 2-00-00 wide w by other members er(s) for truss to t hanical connecticio capable of withs uplift at joint 10. designed in acco Residential Code and referenced sta rifin representatio	as where vill fit betw russ conr on (by oth standing 6 rdance w e sections undard AN	a rectangle veen the bott DL = 10.0ps nections. ers) of truss 6 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1.	to joint					
WEBS REACTIONS		8), 10=-29 (LC 8)	-5-8 LC		ation of the purlin d.								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/68, 2-3=-992/ 5-6=-216/87, 6-7=-1 2-10=-838/73												
BOT CHORD WEBS	9-10=-156/794, 8-9= 3-9=-96/109, 5-9=0/											OF OF	MISSIN
this design 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DC dequate drainage to pr	(3-second gust) DL=6.0psf; h=25ft; C avelope); cantilever le left and right exposed bL=1.60	Cat. eft d;									STATE OF J	ier Server

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

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

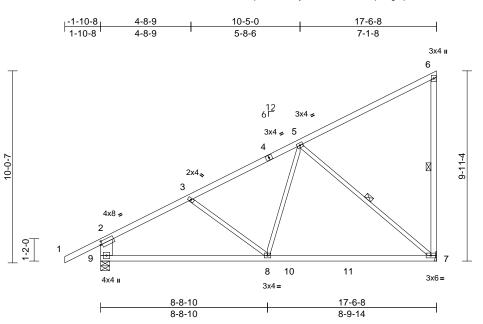


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July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B12	Monopitch	3	1	Job Reference (optional)	153060704

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Scale = 1:60.2

Plate Offsets	(X,	Y):	[2:0-1-0,0-2-0]
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Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.94	Vert(LL)	-0.24	7-8	>845	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.70	Vert(CT)	-0.42	7-8	>488	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.62	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	-0.07	7-8	>999	240	Weight: 74 lb	FT = 10%
LUMBER			5)	Provide mec	hanical connection	n (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 1-4:2x4 SPF 21			e capable of withst plift at joint 7.	tanding 2	27 lb uplift at	joint					
BOT CHORD	2x4 SPF No.2		6)	This truss is	designed in accor	rdance w	ith the 2018						
WEBS	2x3 SPF No.2 *Exce 6-7:2x4 SPF No.2	ept* 9-2:2x8 SP DSS	S,		Residential Code nd referenced star			and					
BRACING			LO	AD CASE(S)	Standard								
TOP CHORD	Structural wood she 2-2-0 oc purlins, ex												
BOT CHORD			С										
WEBS	U	6-7, 5-7											
REACTIONS		echanical, 9=931/0-	5-8										
	Max Horiz 9=328 (L0	,	00										
	Max Uplift 7=-71 (LC	,											
	Max Grav 7=848 (L0	,, (,											
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD		68 2-3998/40											
	3-5=-875/24, 5-6=-2												
BOT CHORD	,	,											
WEBS	3-8=-93/108, 5-8=0/												
NOTES													m
	CE 7-16; Vult=115mph	(3-second aust)										STATE OF I	MIG
	nph; TCDL=6.0psf; BC		Cat.									FEUT	ISS W
	Enclosed; MWFRS (er										B	AN	N.SY
and right e	exposed ; end vertical	left and right expose	ed;								R	SCOT	TM. VEN
	OL=1.60 plate grip DC										A	/ SEV	ER \Y
This truss	has been designed fo	r a 10.0 psf bottom									4 ★	1	1 * 8

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.

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



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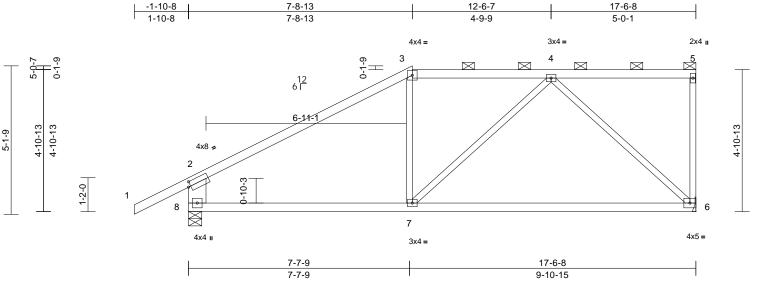
July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B13	Half Hip	1	1	Job Reference (optional)	153060705

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:21 ID:If6hES_fEtSfDC?158UV_syKYP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

Plate Offsets (X, Y): [2:0-1-0,0-2-0]

	7, 1). [2.0 1 0,0 2 0]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.75 0.47 0.87	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.25 -0.53 0.01 0.05	(loc) 6-7 6-7 6 6-7	l/defl >822 >391 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 64 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n II; Exp C; I and right e Lumber 0 3) Provide ac 4) This truss	2x4 SPF 2100F 1.8E No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (lb/size) 6=761/ M Max Horiz 8=165 (LC Max Uplift 6=-45 (LC (lb) - Maximum Com Tension 1-2=0/68, 2-3=-944/ 4-5=-67/711, 6-7=-9 3-7=0/208, 4-7=0/24 ed roof live loads have	E *Except* 3-5:2x4 S pot* 8-2:2x8 SP DSS athing directly applie cept end verticals, a l-0 max.): 3-5. applied or 10-0-0 or echanical, 8=933/0-{ C 5) 2 5), 8=-26 (LC 8) spression/Maximum 0, 3-4=-712/34, 1/35, 2-8=-847/71 4/578 46, 4-6=-771/96 been considered for (3-second gust) DL=6.0psf; h=25ft; C twelope); cantilever I left and right expose vL=1.60 event water ponding r a 10.0 psf bottom	7) PF 8) ed or 9) nd 20 5-8 5-8	Provide mec bearing plate 6 and 26 lb u This truss is International R802.10.2 an Graphical pu	hanical connectice capable of withs plift at joint 8. designed in acco Residential Code nd referenced sta rlin representatio ation of the purlin I.	standing 4 ordance w e sections andard AN on does no	ers) of truss 5 lb uplift at ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the s	to joint and	6-7	>999	240		MISSOLUTION
5) * This trus on the bot 3-06-00 ta chord and	s has been designed f tom chord in all areas ill by 2-00-00 wide will any other members. irder(s) for truss to trus	or a live load of 20.0 where a rectangle fit between the botto	psf								Sol and	PE-2001	LENGT

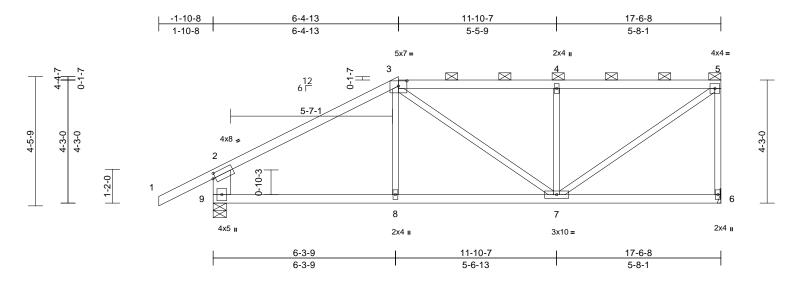
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	B14	Half Hip	1	1	Job Reference (optional)	153060706

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Page: 1



Scale = 1:39.8

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

Plate Offsets (X, Y): [2:0-1-0,0-2-0],	[3:0-3-8,0-2-3]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TP	912014	CSI TC BC WB Matrix-S	0.72 0.60 0.33	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.20 0.01 0.06	(loc) 7-8 7-8 6 7-8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 66 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	pt* 9-2:2x8 SP DSS athing directly applie cept end verticals, ar -0 max.): 3-5. applied or 10-0-0 oc	PF be 6 a 8) Th 8) Th RE d or 9) Gr nd or bo	earing plate and 19 lb up his truss is c ternational f 802.10.2 an raphical pur		anding 4 dance w sections idard AN does no	4 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	joint and					
REACTIONS	Max Horiz 9=143 (LC Max Uplift 6=-44 (LC	5), 9=-19 (LC 8)	5-8										
TOP CHORD BOT CHORD WEBS	FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/68, 2-3=-945/16, 3-4=-800/40, 4-5=-798/39, 5-6=-716/69, 2-9=-826/63 SOT CHORD 8-9=-80/722, 7-8=-81/721, 6-7=-44/35												
 this design Wind: ASC Vasd=91m II; Exp C; I and right e Lumber DI Provide ac This truss chord live * This truss on the bot 3-06-00 ta chord and 	ed roof live loads have CE 7-16; Vult=115mph pph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DO dequate drainage to pri- has been designed for load nonconcurrent wi s has been designed for tom chord in all areas y ill by 2-00-00 wide will any other members. irder(s) for truss to trus	(3-second gust) DL=6.0psf; h=25ft; C velope); cantilever le eft and right exposed L=1.60 event water ponding a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto	Cat. eft d; Is. psf							1		STATE OF I SCOT SEV NUM PE-2001	HER 018807

- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.



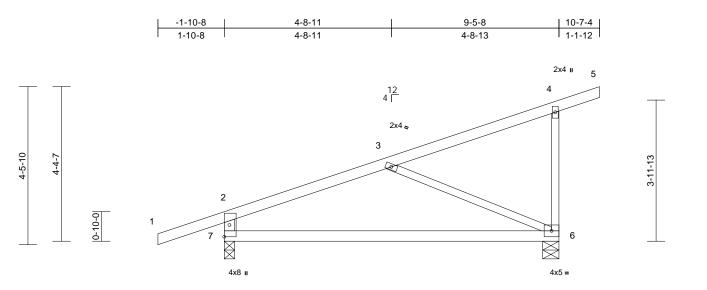
July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	C1	Monopitch	6	1	Job Reference (optional)	153060707

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Page: 1



Scale = $1:32.6$	Scale = 1:32.	6
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Scale = 1:32.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.22	6-7	>507	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.42	6-7	>261	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.02	6-7	>999	240	Weight: 33 lb	FT = 10%
LUMBER												
TOP CHORD	2x4 SPF No.2											

9-5-8

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

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

BR/	ACIN	NG	

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.

	braoinig.	
REACTIONS	(lb/size)	6=492/0-5-8, 7=565/0-3-8
	Max Horiz	7=191 (LC 5)
	Max Uplift	6=-124 (LC 8), 7=-150 (LC 4)

FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/45, 2-3=-478/119, 3-4=-120/34,
	4-5=-28/0, 4-6=-251/105, 2-7=-462/205
BOT CHORD	6-7=-136/397

WEBS 3-6=-411/192

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 4) bearing plate capable of withstanding 124 lb uplift at joint 6 and 150 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 5) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

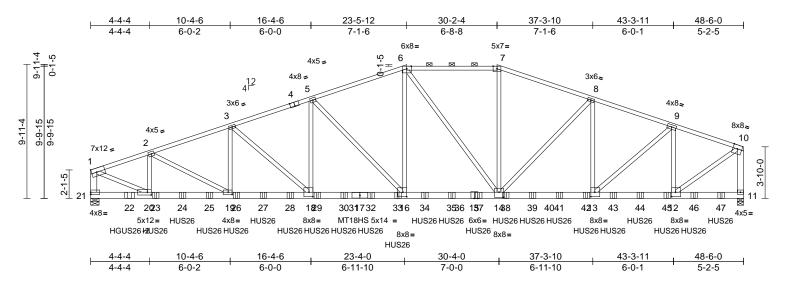


July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D1	Hip Girder	1	3	Job Reference (optional)	153060708

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Plate Offsets (X, Y): [4:0-4-0,Edge]	, [12:0-3-8,0-4-0], [13:	0-3-8,0-4	•0], [14:0-4-0,0	-4-8], [16:0-3-8,0	-4-0], [18	:0-3-8,0-4-0],	[19:0-3	-8,0-2-0]	, [20:0-3	8-8,0-2	-8]		
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.99 0.57 1.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	0.14	16-18 16-18	l/defl >999 >924 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 902 lb	GRIP 197/144 244/190 FT = 10%	
	2x6 SP 2400F 2.0E 2x4 SPF No.2 *Exca No.2, 1-20:2x4 SPF Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-C Rigid ceiling directly bracing. (lb/size) 11=1095 21=11519 Max Horiz 21=73 (LL Max Uplift 11=-840 Max Grav 11=11736 16)	ept* 21-1,11-10:2x6 SI 2100F 1.8E eathing directly applied cept end verticals, and 0-0 max.): 6-7. v applied or 10-0-0 oc 3/0-5-8, (req. 0-6-2), 9/0-7-8 C 18) (LC 5), 21=-915 (LC 4 6 (LC 15), 21=11997 (PF l or d 2) 3)) 4)	(0.131"x3") n Top chords of staggered at oc. Bottom chord staggered at Web connect All loads are except if note CASE(S) sed provided to d unless other Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; En	ted as follows: 2x considered equa ed as front (F) or 1 tition. Ply to ply co istribute only load wise indicated. roof live loads ha 7-16; Vult=115m r; TCDL=6.0psf; E closed; MWFRS	ws: 2x4 rows sta ollows: 2 4 - 1 row lly applie back (B) onnection ds noted ve been ph (3-sec 3CDL=6. (envelope	- 2 rows ggered at 0-9- x6 - 2 rows at 0-9-0 oc. d to all plies, face in the LC s have been as (F) or (B), considered for cond gust) Opsf; h=25ft; C e); cantilever I	AD Cat. eft	6-1 cor 14) Use Tru 8-8 fror 15) Fill LOAD (1) Do Pl Uh Co	0d Truss anect tru e Simpso siss) or ec- 0 from f t face o all nail f CASE(S ead + Ro ate Incre niform L Vert: 1- oncentra Vert: 22 25=-750 29=-74	s) or ec ss(es) on Stro quivale the left f botto noles w b) Sta coads (I 6=-70, ated Lo 2=-1829 0 (F), 2 1 (F), 3	e (balanced): Lui .15 b/ft) 6-7=-70, 7-10=-	13 from the le oottom chord. 14-10d Girde 1-0 oc max. st o connect trus n contact with mber Increas 70, 11-21=-20 (F), 24=-750 (F -741 (F), 28= -740 (F), 33=	aft end to r, 4-10d tarting at ss(es) to n lumber. e=1.15, 0 F), -741 (F), -740 (F),
FORCES	(lb) - Maximum Con Tension 1-2=-15635/1186, 2 3-5=-19461/1481, 5 6-7=-14631/1161, 7 8-9=-15413/1148, 9 1-21=-11345/869, 1	-3=-19974/1496, -6=-16567/1308, -8=-15536/1213, -10=-11175/803,	5) 6) 7) 8)	Lumber DOL Provide adec All plates are This truss ha chord live loa	osed ; end vertica =1.60 plate grip I quate drainage to MT20 plates unl s been designed ad nonconcurrent has been designe	DOL=1.60 prevent ess other for a 10.0 with any) water ponding rwise indicated 0 psf bottom other live load	l. d.	SUPPLEN OR OTHE	39=-740 44=-74 MENTAR R MEAN	0 (F), 4 1 (F), 4 Y BEAR IS TO A	1=-741 (F), 42= 5=-741 (F), 46= RING PLATES, SPI	-741 (F), 43= -741 (F), 47= ECIAL ANCHO MINIMUM REC	-741 (F), -741 (F) DRAGE, QUIRED
BOT CHORD	20-21=-91/451, 19-2 18-19=-1370/18912	20=-1129/14778, , 16-18=-1300/18423, , 13-14=-1048/14598,	_,	on the botton 3-06-00 tall b chord and an	n chord in all area by 2-00-00 wide w by other members Required bearing	as where /ill fit betv s, with BC	a rectangle veen the botto CDL = 10.0psf.		MANUFA	CIURER		RESPONSELLA E BUTONG DES	т м. 🔨	No. 10
WEBS NOTES	6-16=-434/6090, 6- 7-14=-298/4461, 8- 8-13=-553/118, 9-12 9-12=-5069/433, 10 1-20=-1167/15643, 2-20=-3778/311, 2- 3-19=-26/562, 3-18= 5-18=-194/3458	14=-1738/176, 14=-59/433, 3=-365/5338, -12=-904/12749, 5-16=-3898/343, 19=-273/4677,	10 11	than input be) Provide mecl bearing plate joint 21 and 8) This truss is International R802.10.2 ar) Graphical pu	aring size. hanical connectio capable of withs 840 lb uplift at joir designed in accoo Residential Code do referenced sta rlin representation tion of the purlin	n (by oth tanding S nt 11. rdance w sections ndard AN n does no	ers) of truss to 015 lb uplift at ith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the s	o nd		¢		SEV NUM PE-2001	BER 1018807	te la

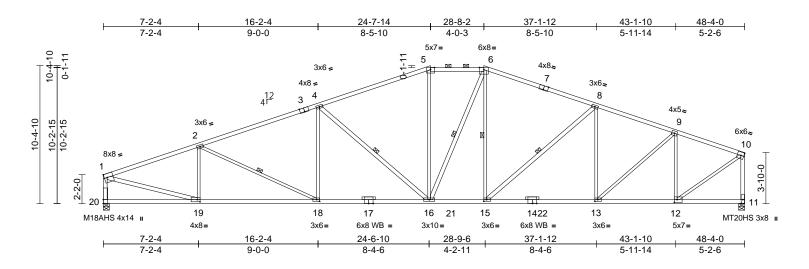
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D2	Нір	1	1	Job Reference (optional)	153060709

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:24 ID:XOuY7us?CH2SPyVa3gaYFjyKY9o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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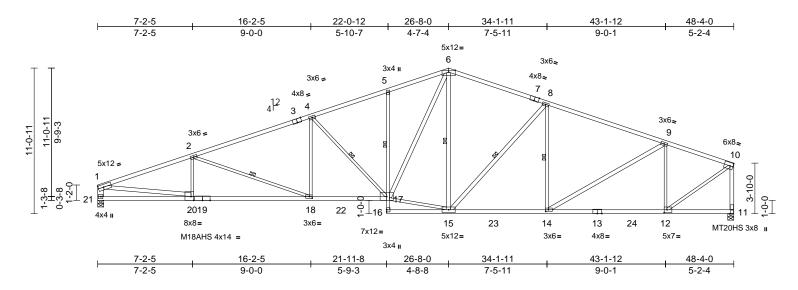
Scale = 1:86.8

Scale = 1.66.6													
Plate Offsets (X, Y): [1:Edge,0-3-8], [3:0-4-0,Edge], [7:0-4-0,Edge], [12:0-2-8,0-2-8], [13:0-2-8,0-1-8], [15:0-2-8,0-1-8], [18:0-2-8,0-1-8], [19:0-2-8,0-2-0]													
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.78	DEFL Vert(LL)	in -0.32	(loc) 16-18	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.65	Vert(CT)	-0.56	16-18	>999	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES		WB	0.85	Horz(CT)	0.14	11	n/a	n/a	MT20HS	148/108
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-	Wind(LL)	0.16	16-18	>999	240	Weight: 218 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce		2) 3) 4)	this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Provide adec All plates are	roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; closed; MWFRS t and right expos d; Lumber DOL= quate drainage to b MT20 plates un	nph (3-sec BCDL=6. (envelope sed ; end v 1.60 plate prevent v less other	cond gust) 0psf; h=25ft; (e) exterior zor vertical left an e grip DOL=1. water ponding rwise indicate	Cat. ne; id 60 g.					
TOP CHORD		athing directly applied cept end verticals, an 8-4 max.): 5-6.		 chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 									
BOT CHORD	bracing. 3-06-00 tail by 2-00-00 wide will fit between the bottom												
WEBS	1 Row at midpt	6-16, 6-15, 8-15, 4-10 2-18	6, 7)	Provide mec	hanical connections capable of withs	on (by oth	ers) of truss t	0					
REACTIONS	(lb/size) 11=2162/ Max Horiz 20=83 (L0 Max Uplift 11=-317 (Max Grav 11=2309	(LC 5), 20=-340 (LC 4) 8)	joint 20 and 3 This truss is International	317 lb uplift at joi designed in acco Residential Code nd referenced sta	int 11. ordance w e sections	ith the 2018 R502.11.1 a						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	9)		Irlin representation of the purlin			size					
TOP CHORD	1-2=-3597/540, 2-4= 4-5=-3060/516, 5-6= 6-8=-2956/481, 8-9= 9-10=-2175/295, 1-2 10-11=-2223/340	=-2821/526, =-3000/442,	LC	bottom chore DAD CASE(S)	d.	. along the					ä	STATE OF M	MISSOLA
BOT CHORD	19-20=-117/103, 18 16-18=-466/3516, 1 13-15=-364/2804, 1 11-12=-48/38	5-16=-265/2728,										SEVI	
WEBS	8-15=-270/204, 10-1 1-19=-469/3375, 4-1	16=-957/279, 3=-12/254, 4-18=0/372	,								and a	PE-2001	188
NOTES												and	14,2022

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D3	Roof Special	1	1	Job Reference (optional)	153060710

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:24 ID:vWvrj5ZR?cpSqdngqnccTSyKY7b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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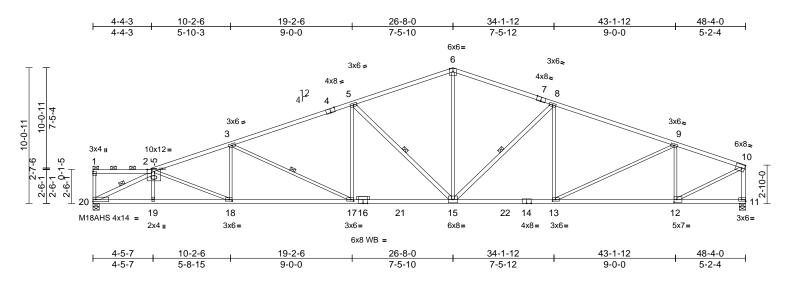
Plate Offsets (X, Y): [3:0-4-0,Edge]	[7:0-4-0 Edge] [12:	0-2-8 0-2	-8] [14:0-2-8 0	1-8] [18.0-2-8.0)-1-8] [20.0)-2-8 Edgel						
		, [7:0 4 0,Eugo], [72:	0 2 0,0 2	0], [14.0 2 0,0	1	, [20.0						1	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.89	Vert(LL)		18-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.69	18-20	>837	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES		WB	0.98	Horz(CT)	0.18	11	n/a	n/a	MT20HS	148/108
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.22	17-18	>999	240	Weight: 222 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF 2100F 1.8			this design.	roof live loads h			or					
BOT CHORD	2x4 SPF 2100F 1.8 No.2, 13-11:2x4 SP	E *Except* 5-16:2x3 F No.2	SPF 2		7-16; Vult=115 h; TCDL=6.0psf			Cat.					
WEBS		.8,1-20,14-9:2x4 SPF		cantilever le	closed; MWFRS ft and right expo	sèd ; end v	vertical left ar	nd					
	No.2, 21-1:2x6 SPF	No.2			d; Lumber DOL:								
BRACING			3		e MT20 plates u			ed.					
TOP CHORD	Structural wood she except end verticals	eathing directly applie	ed, 4	chord live lo	as been designe ad nonconcurre	nt with any	other live loa						
BOT CHORD	Rigid ceiling directly bracing. Except:	/ applied or 9-7-15 or	5	on the botto	has been desigr m chord in all ar	eas where	a rectangle						
1 Row at midp	it 5-17				by 2-00-00 wide								
WEBS	1 Row at midpt	6-15, 8-15, 4-17, 2- ⁻ 8-14	18, 6) Provide med	ny other membe chanical connect	tion (by oth	ers) of truss	to					
REACTIONS	(lb/size) 11=2158/	/0-5-8, 21=2158/0-5-8	8		e capable of with 299 lb uplift at jo		127 Ib uplift a	t					
	Max Horiz 21=120 (LC 12)	7		designed in acc		ith the 2018						
	Max Uplift 11=-299		4)		Residential Co			and					
	Max Grav 11=2304	(LC 2), 21=2266 (LC	; 2)	R802.10.2 a	nd referenced s	tandard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum Con Tension	npression/Maximum	L	OAD CASE(S)	Standard								
TOP CHORD	1-2=-4575/662, 2-4 4-5=-3569/558, 5-6												
	6-8=-2774/469, 8-9	,										COOL	ADD
	9-10=-2217/283, 10											TATE OF M	AIS C
	1-21=-2146/358										1	950	N.O.
BOT CHORD	20-21=-168/320, 18	-20=-657/4287,									8	SCOT	N CAN
	17-18=-501/3980, 1	6-17=0/73,									R	SEVI	
	5-17=-328/158, 15-	16=-13/99,									21	SEVI	
	14-15=-319/2854, 1	2-14=-296/2075,									illo		. 0.
	11-12=-49/37										TX.	H.	No. In
WEBS	6-17=-355/1787, 10	,										NUM	
	6-15=-251/233, 15-	17=-183/2522, 8=0/475, 4-17=-986/2	242								N,	PE-2001	018807
	2-20=-364/180, 1-20	,	242,								Q	The second	1 A
	2-18=-454/179, 8-14	,										A Ser	NO'A
	9-14=-82/902, 9-12:	,										SSIONA	LEL
NOTES	, -											CONA	5555
												July	14,2022
												,	



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D4	Roof Special	1	1	Job Reference (optional)	153060711

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:25 ID:zCswZJHinwoV?ss5EJuSxhyKXo0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:85.3
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Plate Offsets (X, Y): [2:0-4-0,E	lge], [4:0-4-0,Edge], [7:0-4	4-0,Edge], [11:Edge,()-1-8], [12:0-2-8,0-2	2-8], [13:0-	2-8,0-1-8], [17	:0-2-8,0	0-1-8], [1	8:0-2-8,	0-1-8]	-	
Loading (ps TCLL (roof) 25 TCDL 10 BCLL 00 BCDL 10	0 Plate Grip DOL 0 Lumber DOL 0* Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.77 0.70 0.97	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.38 -0.71 0.20 0.22	(loc) 17-18 17-18 11 11 17-18	l/defl >999 >809 n/a >999	L/d 360 240 n/a 240	PLATES M18AHS MT20 Weight: 199 lb	GRIP 142/136 197/144 FT = 10%
No.2 BOT CHORD 2x4 SPF 2100F WEBS 2x3 SPF No.2 * 20-2,11-10,15-8 20-2,11-10,15-8 OTHERS 2x3 SPF No.2 * BRACING 2x3 SPF No.2 * TOP CHORD Structural wood 2-2-0 oc purlins 2-0-0 oc purlins 2-0-0 oc purlins BOT CHORD Rigid ceiling dir ceiling dir ceiling dir ceiling dir	Except* ,5-15:2x4 SPF No.2 sheathing directly applied , except end verticals, and (6-0-0 max.): 1-2. actly applied or 9-9-15 oc 2-20, 8-15, 5-15, 3-17 164/0-5-8, 20=2164/0-5-8 1 (LC 20) 299 (LC 5), 20=-331 (LC 4 283 (LC 2), 20=2272 (LC 3 Compression/Maximum -2=-54/26, 2-3=-4660/661 5-6=-3072/474, 8-9=-3496/470, , 10-11=-2222/314 9, 18-19=-586/3905, 2, 15-17=-444/3732, 2, 12-13=-345/2533, , 10-12=-358/2816, 5=-156/1529, 8-15=-681/2, , 3-18=-7/211, 2-18=-54/5 5-17=0/673, 8-13=-132/16 -12=-1065/262	 PF Vasd=91r II; Exp C; cantilever right expc 3) Provide a 4) All plates 5) All plates 6) This truss chord live 7) * This truss 7 8) Provide n bearing p joint 20 an 9) This truss 2) 9) This truss 2) 10) Graphical or the bot 400 CASE(BCDL=6.1 \$ (envelopesed ; end v =1.60 plate o prevent v so therwid d for a 10.1 t with any ed for a 10.1 t with any ed for a 10.1 t with any ed for a 110 so n (by oth standing 3 int 11. ordance w le sections andard AN on does no	Dpsf; $h=25ft$; C e) exterior zon- vertical left anc grip DOL=1.6 water ponding wise indicated se indicated. D psf bottom other live load e load of 20.0 a rectangle veen the botto iDL = 10.0psf. IDL = 10.0psf. iSI lb uplift at ith the 2018 is R502.11.1 ar ISI/TPI 1.	e; d 60 ds. psf m				STATE OF M STATE OF M SEVI PE-2001 PE-2001	L ENGL

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D5	Roof Special	1	1	Job Reference (optional)	153060712

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:25

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ID:0z1bmdQHhVLCUArnd407fJyKXhN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-4-2 13-2-4 18-1-4 22-4-0 26-8-0 34-1-11 40-1-10 48-4-0 7-4-2 5-10-2 4-11-0 4-2-12 4-4-0 7-5-11 5-11-15 8-2-6 5x7= 5x7 = 7 3x6≈ 4¹² ^{4x8}= 6 4x8≈ 3x4 II 5 8 9 4 10-0-11 6-5-5 3x6 = 3x6 🕿 3 10 10-0-11 5x7 II MT18HS 5x14 3-5-1 p-1-11 6x6≈ 2 ₩ -7-6 3-5-11 3-5-11 22 18 ę 17 🗄 婅 20 19 24 23 2x4 II 3x6= 16 25 1154 13 10x12= M18AHS 4x14 ॥ MT18HS 10x16 II 6x12= 5x12= 5x7= 4x8 II 2x4 II 2-1-2×4 II

0-3-8 2-5-8 7-5-6	13-2-4	18-0-0	26-8-0	34-0-0	34-1-11 40-1-10	48-4-0
0-3-8 0-1-4 4-11-14 2-0-12	5-8-14	4-9-12	8-8-0	7-4-0	0-1-11 5-11-15	8-2-6

Scale = 1:87

Plate Offsets (X, Y): [2:0-7-0,0-1-15	i], [5:0-4-0,Edge], [8:	0-4-0,Edge	e], [11:Edge,	0-2-0], [12:0-3-8,E	dge], [13:0)-2-8,0-2-8], [[15:0-5-0),0-3-0],	[16:0-5-0),0-2-1	2], [19:0-2-8,0-1-	8], [24:Edge,0-3-8]
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.89 0.94 0.86	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.52 -0.96 0.36 0.36	16-17 12	l/defl >999 >599 n/a >999	L/d 360 240 n/a 240	M18AHS	GRIP 197/144 197/144 142/136 FT = 10%
	SPF No.2 2x4 SPF No.2 *Exce 2100F 1.8E, 4-17:2x 2x3 SPF No.2 *Exce 24-1,16-18,16-6,16- No.2, 22-2:2x4 SPF Structural wood she except end verticals (6-0-0 max.): 1-2. Rigid ceiling directly bracing. 1 Row at midpt 2 Rows at 1/3 pts (lb/size) 12=2162/ Max Horiz 24=-140 (Max Uplift 12=-293 (Max Grav 12=2257 (lb) - Maximum Com Tension 22-24=-2202/353, 1:	apt* 22-18,17-15:2x4 3 SPF No.2 apt* 9,12-11,13-11:2x4 S 2100F 1.8E athing directly applie , and 2-0-0 oc purlin applied or 2-2-0 oc 3-18, 6-16, 9-16, 2- 2-22 0-5-8, 24=2162/0-5- (LC 9) (LC 5), 24=-331 (LC (LC 2), 24=2271 (LC npression/Maximum -22=-266/105,	<4 SPF N(1) sd, 2) 19 3) 8 4) 5) 4) 5) 4) 6) 7)	this design Wind: ASC Vasd=91m II; Exp C; E cantilever I plate grip I Provide ad All plates a This truss chord live I * This truss on the bott 3-06-00 tal chord and	E 7-16; Vult=115n ph; TCDL=6.0psf; Enclosed; MWFRS left and right expos	16-18=-4 6-16=-13 9-16=-13 9-16=-62 0-14=-52/2 19=-1165 11-13=-3 ave been nph (3-see BCDL=6 6 (envelop sed ; Lumi o prevent bless other d for a 10. t with any ed for a line cas where will fit bett rs, with BC	29/3209, 72/349, 3/228, 3/228, 29/2999 considered fc cond gust) 0psf; h=25ft; e) exterior zoi ber DOL=1.60 water ponding wise indicate 0 psf bottom other live loa e load of 20.1 a rectangle veen the bott CDL = 10.0psl	or Cat. ne; 0 g. ed. ads. 0psf om f.				STOCK I	
BOT CHORD	1-2=-207/59, 2-3=-5 4-6=-4548/741, 6-7- 7-9=-3012/471, 9-10 10-11=-3190/423, 1 23-24=0/0, 21-22=-5 20-21=-965/6150, 11 18-19=-756/5071, 1 4-18=-296/141, 16-1 14-16=-294/3156, 1 12-13=-22/105	415/783, 3-4-4572/ 2984/471,)3383/479, 1-12-2122/336)065/6150, 9-20961/6159, 7-18=0/153, 17=-2/238,	(681, ⁶) 8) 9)	bearing pla joint 24 and This truss Internation R802.10.2 Graphical or the orien bottom cho	ate capable of with: d 293 lb uplift at joi is designed in acco al Residential Cod and referenced sta purlin representation tation of the purlir	standing 3 int 12. ordance w le sections andard An on does n	331 Ib uplift at ith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the s	t and				STATE OF M SCOTT SEVI DE COLLAR DE C	

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



July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D6	Roof Special	1	1	Job Reference (optional)	153060713

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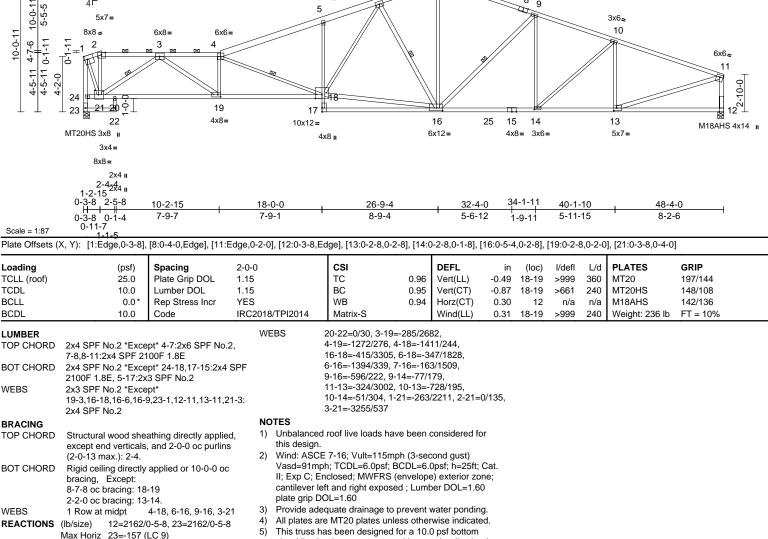
10-4-3

4-7-4

5-8-15

4-4-12

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Wed. Jul 13 07:57:26 Page: 1 ID:vMZY5kJStShSM5gLrHYrSjyKXvj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 40-1-10 48-4-0 18-1-4 22-4-0 26-8-0 34-1-11 7-9-1 4-2-12 4-4-0 7-5-11 5-11-15 8-2-6 6x8= 7 3x6= 5x7 ≠ 4x8, 6 3x4 II 8 9 FT. 5 3x6= 10



Max Horiz 23=-157 (LC 9) Max Uplift 12=-290 (LC 5), 23=-333 (LC 4) Max Grav 12=2258 (LC 2), 23=2272 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-864/115, 2-3=-821/119, 3-4=-5665/788, 4-5=-4690/672, 5-6=-4676/763, 6-7=-2985/464, 7-9=-3028/467 9-10=-3382/471, 10-11=-3193/417, 23-24=-2211/356, 1-24=-2338/285, 11-12=-2123/332 BOT CHORD 22-23=0/0, 21-24=-90/172, 20-21=-582/3475, 19-20=-582/3475, 18-19=-823/5704, 17-18=0/154, 5-18=-501/242, 16-17=-11/177, 14-16=-289/3154, 13-14=-330/2963, 12-13=-22/105

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 6)

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 333 lb uplift at joint 23 and 290 lb uplift at joint 12. This truss 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D7	Roof Special	1	1	Job Reference (optional)	153060714

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Wed. Jul 13 07:57:27 ID:pDql7sf4S95XaRQFWn7U4XyKXz8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

4-4-3 8-10-3 13-4-2 18-1-4 22-4-0 26-8-0 31-8-12 37-1-12 43-1-12 48-4-0 + 4-4-3 4-6-0 4-6-0 4-9-2 4-2-12 4-4-0 5-0-12 5-5-0 5-11-15 5-2-4 5x7 II 4x8≈ 7 5x7 ≠ 4x5 🕿 6 8 3x4 ı 6-7-6 11-0-11 4-5-5 9 3x6-5 4¹² 10 5x12 🛥 8x8= 2x4 II 0-1-11 2 3 4 4x5~ 11-0-11 11 6x6 🕿 <u>6-5-11</u> 5-5-11 12 4-2-0 24 20 22 0 2 21 19 26 25 6x12= 18 $10 \times 12 =$ 16 13 閿 5x7= MT20HS 3x8 II 15 14 3x6 i 3x4 u MT20HS 3x8 6x12= 5x12= 5x7= 3x4 =8x12= 2x4 ı 2-4-444-2-15 0-3-8 2-5-8 8-10-3 18-0-0 26-8-0 31-7-8 37-1-12 43-1-12 48-4-0 0-3-8 0-1-4 4-7-4 9-1-13 8-8-0 4-11-8 5-6-4 5-11-15 5-2-4 2-0-12 1-9-7 Scale = 1:89 Plate Offsets (X, Y): [4:0-6-0,0-1-15], [9:0-4-0,Edge], [14:0-2-8,0-2-8], [18:0-5-4,0-2-8], [22:0-2-8,0-2-8] Loading Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATES GRIP (psf) Plate Grip DOL TCLL (roof) 25.0 1.15 тс 0.72 Vert(LL) -0.53 20-21 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.86 Vert(CT) -0.98 20-21 >588 240 MT20HS 148/108 BCLL Rep Stress Incr WB Horz(CT) 0.29 0.0 YES 0.97 13 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.29 20-21 >999 240 Weight: 234 lb FT = 10% LUMBER WEBS 23-25=-1/40, 1-22=-342/2410, 2-22=-1300/256, 2-21=-330/2552, TOP CHORD 2x4 SPF No.2 4-20=-946/226, 18-20=-311/3314, 2x4 SPF No.2 *Except* 24-20,19-17:2x4 SPF BOT CHORD 6-20=-276/1734, 6-18=-1401/327, 2100F 1.8E, 5-19,8-16:2x3 SPF No.2 7-18=-196/1593, 8-18=-694/231, 2x3 SPF No.2 *Except* WEBS 15-17=-318/2625, 10-17=-64/642, 18-20,18-6,26-1,13-12:2x4 SPF No.2 10-15=-996/174, 11-15=-76/928, BRACING 12-14=-299/2394, 3-21=-451/156, TOP CHORD Structural wood sheathing directly applied or 4-21=-1535/250, 11-14=-1220/247 2-2-0 oc purlins, except end verticals, and NOTES 2-0-0 oc purlins (2-7-8 max.): 2-4. Unbalanced roof live loads have been considered for BOT CHORD Rigid ceiling directly applied or 9-8-11 oc 1) this design. bracing. Wind: ASCE 7-16; Vult=115mph (3-second gust) WEBS 1 Row at midpt 6-18, 8-18, 10-15, 4-21 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. REACTIONS (lb/size) 13=2162/0-5-8, 26=2162/0-5-8 II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Max Horiz 26=-104 (LC 4) cantilever left and right exposed ; end vertical left and Max Uplift 13=-291 (LC 5), 26=-337 (LC 4) right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Max Grav 13=2248 (LC 2), 26=2269 (LC 2) Provide adequate drainage to prevent water ponding. FORCES (Ib) - Maximum Compression/Maximum All plates are MT20 plates unless otherwise indicated. 4) Tension This truss has been designed for a 10.0 psf bottom 5) TOP CHORD 1-2=-2145/295, 2-3=-3898/547, chord live load nonconcurrent with any other live loads. 3-4=-3898/547, 4-5=-4603/640, 5-6=-4562/704, 6-7=-2979/465, * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 7-8=-2971/470, 8-10=-3321/466, 3-06-00 tall by 2-00-00 wide will fit between the bottom 10-11=-2875/397, 11-12=-2123/271, chord and any other members, with BCDL = 10.0psf. OF MISS 24-26=-2220/335, 1-24=-2157/342, 7) Provide mechanical connection (by others) of truss to 12-13=-2169/313 bearing plate capable of withstanding 337 lb uplift at BOT CHORD 25-26=0/0, 23-24=-79/86, 22-23=-79/86, joint 26 and 291 lb uplift at joint 13. SCOTT M. 21-22=-243/2041, 20-21=-637/5012, This truss is designed in accordance with the 2018 8) SEVIER 19-20=0/154, 5-20=-274/151, 18-19=-24/137, International Residential Code sections R502.11.1 and 17-18=-306/3108, 16-17=0/96, 8-17=-51/392, R802.10.2 and referenced standard ANSI/TPI 1. 15-16=-4/108, 14-15=-279/1977, Graphical purlin representation does not depict the size 9) 13-14=-48/37 NUMBER or the orientation of the purlin along the top and/or 6 bottom chord. PE-2001018807 THE SSIONAL LOAD CASE(S) Standard



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July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D8	Roof Special	1	1	Job Reference (optional)	153060715

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:27 ID:yk1fnoliwl3zEjAqEP7IpvyKY1U-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

18-1-4 7-4-3 26-8-0 11-10-3 16-4-3 22-4-0 31-8-12 37-1-12 43-1-12 48-4-0 7-4-3 4-6-0 4-6-0 1-9-1 4-2-12 4-4-0 5-0-12 5-5-0 5-11-15 5-2-4 5x7 II 4x8≈ 7 5x7 🚅 4x5**≈** 3х4 **п** 11-0-11 0-1-11 3-5-5 T 6 8 5x12 ≠ 9 Fr 3x6≈ 6x8= 2x4 II 5 412 41 7-7-6 1-1 10 2 3 4 4x5**≈** 11-0-11 6x6 🚽 11 7-5-11 5-5-11 1 6x6**≈** 12 4-2-0 10-0 24 20 ÷ 19 🗄 26 ₫ 25 22 21 튛 4x8= 6x8= ¢_27 18 10x12= 16 ^H MT20HS 3x8 II 俊 15 14 2-5-8^{3x4} " 0-3-8 H 0-2 4x8 II 3x6 II MT20HS 3x8 3x4= 3x4 II 6x12= 5x12= 5x7= 5x12= 7-2-15 11-10-3 18-0-0 26-8-0 31-7-8 37-1-12 43-1-12 48-4-0 -0-3-8 2-2-0 4-7-4 8-8-0 4-11-8 5-6-4 5-11-15 5-2-4 4-9-7 6-1-13

Scale = 1:89

Plate Offsets (ate Offsets (X, Y): [1:Edge,0-2-0], [4:0-6-0,0-1-15], [9:0-4-0,Edge], [14:0-2-8,0-2-8], [18:0-4-12,0-2-12], [22:0-2-8,0-2-0], [23:0-2-0,0-0-8], [25:Edge,0-2-8]												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.84	Vert(LL)		18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.65	Vert(CT)		18-19	>727	240	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES		WB	0.94	Horz(CT)	0.27	13	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	/TPI2014 Matrix-S Wind(LL) 0.27 20-21 >999 240							Weight: 239 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	1.8E 2x3 SPF No.2 *Exce No.2, 24-20,19-17:2: 2x3 SPF No.2 *Exce 18-20,18-6,26-1,13-	pt* 26-25,16-13:2x4 x4 SPF 2100F 1.8E pt* 12:2x4 SPF No.2 athing directly applie	SPF		1-22=-362/2726, 2-21=-236/1862, 18-20=-419/3234 6-18=-1398/348, 8-18=-598/224, 1 10-17=-78/541, 1 12-14=-279/2394 11-14=-1219/234 4-21=-1083/159	4-20=-904 , 6-20=-29 7-18=-199 5-17=-259 0-15=-909 , 11-15=-8	4/222, 93/1703, 9/1596, 9/2571, 5/176, 88/928,						
BOT CHORD	nph (3-sec BCDL=6.0	considered fo ond gust) 0psf; h=25ft; e) exterior zo	Cat.										
1 Row at midp	9-10-3 oc bracing: 2 ot 8-17			cantilever let	ft and right expos	ed ; Lumb	er DOL=1.6	0					
WEBS		6-18, 8-18, 10-15, 4	-21	plate grip DO	DL=1.60								
		0-5-8, 26=2162/0-5-6 LC 9) LC 5), 26=-333 (LC	8 3) 4) 4) 5)	 Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 									
FORCES	(lb) - Maximum Com Tension	pression/Maximum	6)	on the bottor	m chord in all are	as where	a rectangle	•					-
TOP CHORD	1-2=-2839/443, 2-3= 3-4=-3870/613, 4-5= 5-6=-4539/723, 6-7= 7-8=-2970/472, 8-10 10-11=-2874/401, 1 ⁻¹ 24-26=-2205/353, 1-	4582/682, 2980/468,)=-3243/450, 1-12=-2123/286,	.,	 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 26 and 284 lb uplift at joint 13. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 							Г. М. ТЕМ		
BOT CHORD	12-13=-2169/308 International residential Code sections RS02.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 25-26=-58/58, 23-25=0/32, 23-24=-86/229, 22-23=-103/228, 21-22=-408/2685, 20-21=-639/4572, 19-20=0/155, 5-20=-74/76, 18-19=-63/2032, 16-17=0/98, 8-17=-44/279, 15-16=-4/144, 14-15=-232/1977, 13-14=-5/26 9 9 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9 14-15=-232/1977, 13-14=-5/26 U/u/u/u/u/u/u/u/u/u/u/u/u/u/u/u/u/u/u/u												

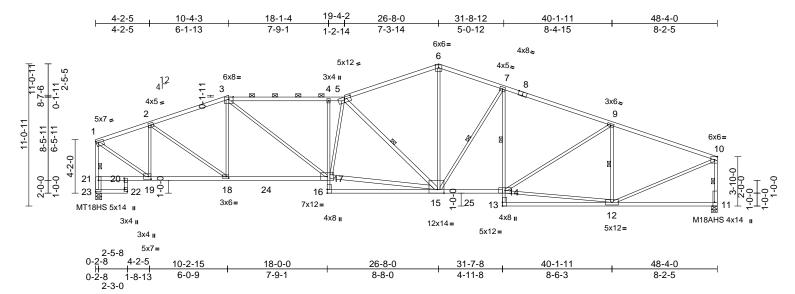
July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	D9	Roof Special	1	1	Job Reference (optional)	153060716

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:28 ID:D5DPnQek3P7VQF5EZdJfaOyKZNY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:89.6

Plate Offsets ([1:0-2-0,0-1-12 (X, Y): [22:Edge,0-2-8	2], [5:0-6-0,0-1-15], [3]. [23:Edge.0-2-8]	8:0-4-0,Ec	lge], [10:0-2-8	3,Edge], [11:0-3-8,E	Edge], [15	:0-6-4,Edge]	, [18:0-2·	-8,0-1-8]	, [19:0-2	2-8,0-2-	-8], [20:0-2-0,0-0-	8],
Loading		1	2-0-0		CSI		DEFL	in	(00)	l/dofl	L/d	PLATES	GRIP
TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		TC	0.81	Vert(LL)	in 0 20	(loc) 17-18	l/defl >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.59	Vert(LL)	-0.39	15-16	>829	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES		WB	0.98	Horz(CT)	0.24	11	>023 n/a	n/a	MT18HS	197/144
BCDL	10.0	Code		18/TPI2014	Matrix-S	0.50	Wind(LL)	0.24	4-17	>999	240	Weight: 227 lb	FT = 10%
LUMBER		- -	V	/EBS	3-18=-445/155, 3	-17=-186	/1526,						
TOP CHORD			00F		15-17=-436/3992	,	,						
	2.0E, 5-6,8-10:2x4		1005		5-15=-1867/372, 7-15=-621/228, 1								
BOT CHORD		ept* 23-22,13-11:2x2 2x4 SPF 2100F 1.8E			10-12=-312/2731								
WEBS		ept* 15-17,15-5:2x4			2-19=-1290/289,								
	No.2				9-12=-1131/285,	9-14=-70	/625						
BRACING			N	IOTES									
TOP CHORD	Structural wood she	eathing directly appli	ed or 1) Unbalance	ed roof live loads ha	ave been	considered for	or					
		cept end verticals, a		this desigr									
	2-0-0 oc purlins (3-0	,	2) Wind: ASCE 7-16; Vult=115mph (3-second gust)										
BOT CHORD		/ applied or 10-0-0 o	С	Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone;									
	bracing, Except: 6-0-0 oc bracing: 22	0-03			left and right expos								
1 Row at midp		2-20.		right exposed; Lumber DOL=1.60 plate grip DOL=1.60									
WEBS	1 Row at midpt	5-15, 7-15, 1-23, 10)-11. 3	3) Provide adequate drainage to prevent water ponding.									
		9-12	4		are MT20 plates un			ed.					
REACTIONS	(lb/size) 11=2166	/0-5-8, 23=2166/0-5-	-8 5		has been designed								
	Max Horiz 23=-103				load nonconcurren								
	Max Uplift 11=-287	(LC 5), 23=-337 (LC	4) 6		s has been designe tom chord in all are			Opst					
	Max Grav 11=2263	(LC 2), 23=2308 (LC	C 2)		tom chord in all are			om					
FORCES	(lb) - Maximum Con	npression/Maximum			any other member								The
	Tension		7		echanical connection							OF M	ALC: NO
TOP CHORD					ate capable of with							TATE OF M	IIS'S
	3-4=-4203/633, 4-5	,			d 287 lb uplift at joi						6		1.5
	5-6=-3079/456, 6-7 7-9=-3318/444, 9-1	,	8	6) This truss is designed in accordance with the 2016									M. YEY
	21-23=-2263/333, 1				al Residential Cod			and			8	SEVI	ER \Y
	10-11=-2143/323	21-2211/020,		R802.10.2 and referenced standard ANSI/TPI 1. 9) Graphical purlin representation does not depict the size									
BOT CHORD	22-23=-38/60, 20-2	2=-1/46. 20-21=-50/6	63. ⁹					size			X.		Xin had
	19-20=-75/83, 18-1		,	bottom ch	ntation of the purlin	along the	e top and/or			/		NUM	serven
	17-18=-317/3012, 1			S) Standard						87	PE-2001		
	4-17=-475/179, 15-		L	CAD CASE(Stanuaru						N	PE-2001	1000/29
	14-15=-292/3071, 1		40								Y		1 ON B
	7-14=-54/209, 12-1	3=0/217, 11-12=-46/	40									SSIONA	TENA

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



ONALE

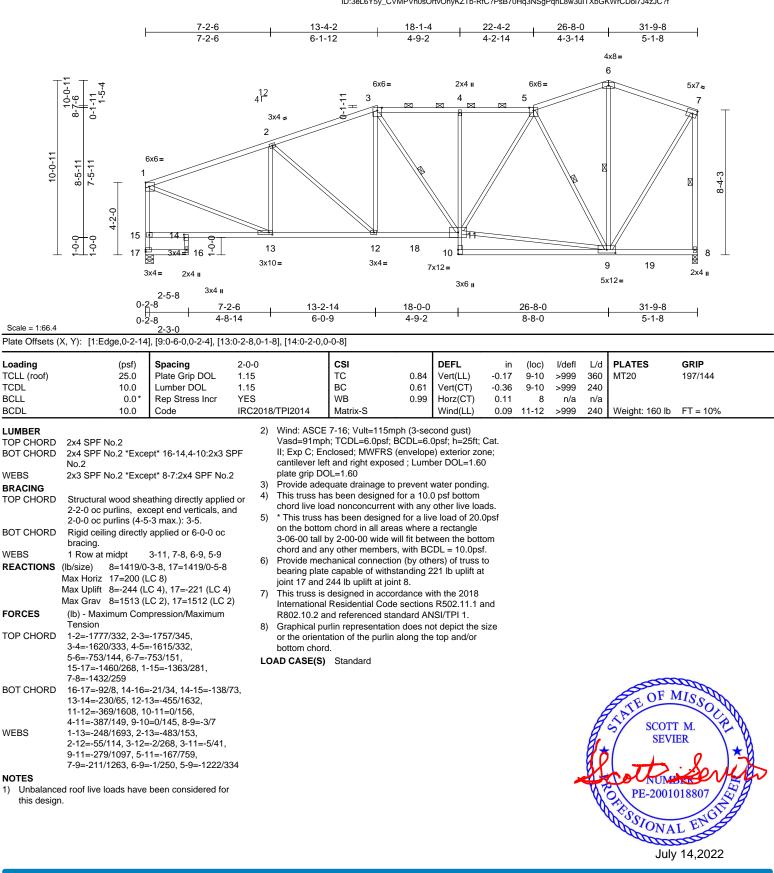
July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof			
210568	E1	Roof Special	1	1	Job Reference (optional)	153060717		

1)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Wed. Jul 13 07:57:29 ID:3eL6Y5y_CVMPVn0sOrtvOnyKZTb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E2	Roof Special	1	1	Job Reference (optional)	153060718

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Wed Jul 13 07:57:29 Page: 1 ID:0SCi45qCi7uPbcMe_u9FATyKZRA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 26-8-0 5-5-6 20-10-2 25-4-2 31-9-8 10-2-5 16-4-3 5-5-6 4-8-15 6-1-14 4-6-0 4-6-0 1-3-14 5-1-8 4x8= 2x4 u ^{6x6}= 7 6x6= 5 6 4 5x7 **≈** \boxtimes 8 2x4 I 12 4 3 4x4 🚅 2 10-0-11 3x4 II 9-5-11 9-5-11 1 8-4-3 Ø 4-2-0 9 4 ĕ \ge 15 16 13 17 12 18 11 19 2010 21 3x10= 2x4 🛛 3x10= 6x8 WB = 6x8= 6x8= 10-2-5 20-10-2 26-8-0 31-9-8 10-2-5 10-7-13 5-9-14 5-1-8 Scale = 1:65.6

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.51 0.62 0.99	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.34 -0.54 0.04 0.07	(loc) 11-13 11-13 9 11-13	l/defl >999 >697 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 164 lb	GRIP 197/144 FT = 10%
LUMBER			2)		7-16; Vult=115mpl								
TOP CHORD	2x4 SPF No.2				n; TCDL=6.0psf; B0								
BOT CHORD		E *Except* 12-9:2x4 S	PF		closed; MWFRS (e t and right exposed								
WEBS	2100F 1.8E	0 0 1 1 1 1 2 1 · 2 v /			0 1	,							
WEBS	2x3 SPF No.2 *Except* 9-8,14-1,13-4:2x4 SPF No.2			right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.									
OTHERS	2x3 SPF No.2		4)		s been designed for								
BRACING	2.00 01 1 11012		,		ad nonconcurrent w			ds.					
TOP CHORD	Structural wood she	athing directly applied	5) * This truck has been designed for a live load of 20 Oraf										
		xcept end verticals, a			n chord in all areas		0						
	2-0-0 oc purlins (4-1				y 2-00-00 wide wil								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	6)		y other members, hanical connection								
	bracing.		6)		capable of withsta		,						
WEBS					47 lb uplift at joint 1		or io upint at						
		2-14	7)		designed in accord		ith the 2018						
	· /	-3-8, 14=1418/0-5-8	• • •		Residential Code			nd					
	Max Horiz 14=321 (L	,		R802.10.2 a	nd referenced stan	dard Al	ISI/TPI 1.						
	Max Uplift 9=-251 (L	.C 5), 14=-247 (LC 4)	8)	Graphical pu	rlin representation	does n	ot depict the s	ize					

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

LOAD CASE(S) Standard

Max Grav 9=1585 (LC 2), 14=1555 (LC 2)

1-2=-116/75, 2-3=-1689/298, 3-4=-1702/379, 4-5=-1265/304, 5-6=-1265/304, 6-7=-732/228, 7-8=-772/222, 8-9=-1476/265,

2-14=-1686/315, 3-13=-393/192, 2-13=0/571,

(lb) - Maximum Compression/Maximum

13-14=-330/1198, 11-13=-286/1325,

10-11=-209/859, 9-10=-116/87

4-11=-208/133, 8-10=-213/1306,

5-11=-388/150, 6-11=-146/939,

7-10=-94/345, 6-10=-1208/281,

1) Unbalanced roof live loads have been considered for

Tension

1-14=-183/68

4-13=-118/443

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.



July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E3	Нір	1	1	Job Reference (optional)	153060719

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:30 ID:zcoRXfFHfHn3oCSiawAmBRyKZIt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

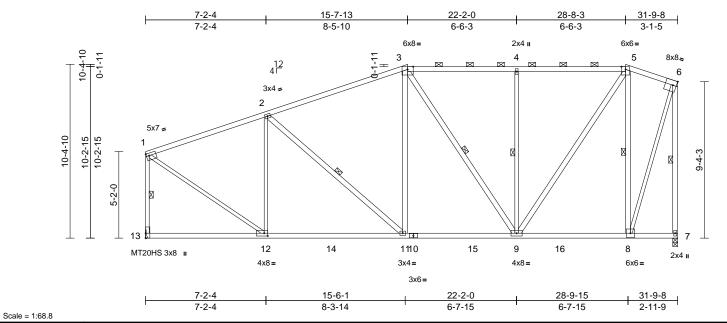


Plate Offsets (X, Y): [1:0-2-0,0-1-12], [6:0-2-8,Edge], [12:0-2-8,0-2-0]

		1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.90	Vert(LL)		11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.72	Vert(CT)	-0.29	11-12	>999	240	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES		WB	0.81	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/1	FPI2014	Matrix-S		Wind(LL)	0.04	11	>999	240	Weight: 177 lb	FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 4-9,8-6,13-1,12-1,12-2:2x3 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-10 max.): 3-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 3-9, 4-9, 6-7, 1-13, 2-11, 5-8				This truss has chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Refer to girde Provide mech bearing plate bearing plate this truss is c International	MT20 plates unle s been designed for d nonconcurrent v as been designed n chord in all areas y 2-00-00 wide will y other members, er(s) for truss to tru- nanical connection capable of withste uplift at joint 7. designed in accord Residential Code s d referenced stan	or a 10.0 vith any for a liv s where Il fit betw with BC uss conr (by oth anding 4 dance w sections	D psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf tections. ers) of truss t 0 lb uplift at j ith the 2018 i R502.11.1 a	ads. Opsf om f. to joint					
REACTIONS (lb/size) 7=1419/0-3-8, 13=1419/ Mechanical Max Horiz 13=129 (LC 8) Max Uplift 7=-77 (LC 4), 13=-40 (LC 4) Max Grav 7=1561 (LC 2), 13=1537 (LC 2)				Graphical pur		does no	ot depict the s	size					
FORCES	(lb) - Maximum Com	,, (-,										
TOP CHORD	Tension 1-2=-1369/65, 2-3=- 4-5=-1083/92, 5-6=- 1-13=-1441/73	,										The second se	
BOT CHORD	12-13=-130/18, 11-1 9-11=-97/1265, 8-9=											OF N	AISS
WEBS	3-11=0/366, 3-9=-34 6-8=-68/1414, 1-12=										Å	STATE OF M	INI. VYA
this desig 2) Wind: AS Vasd=911 II; Exp C; and right DOL=1.6	ced roof live loads have gn. SCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er exposed ; Lumber DOL	been considered for (3-second gust) DL=6.0psf; h=25ft; C nvelope); cantilever le =1.60 plate grip	Cat. eft									SEVI OF COLONA PE-20010 PE-20010	018807

3) Provide adequate drainage to prevent water ponding.

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 colleapse 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



July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E4	Half Hip	1	1	Job Reference (optional)	153060720

9-4-10 || 1 0-1-11

9-2-15 9-2-15

5-2-0

9-4-10

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:30 Page: 1 ID:nC3_ejqaZjxSi_L2UimasryKZ_m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 19-5-3 24-9-10 31-9-8 7-2-6 12-7-13 7-2-6 5-5-7 6-9-6 5-4-7 6-11-14 4x8= 3x4= 5x7= 2x4 II 1<u>2</u> 4 Г <u>+</u>= 3 5 4 6 \bowtie 3x4 -2 92 5x7 🚅

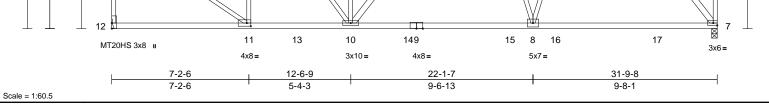


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [11:0-2-8,0-2-0]

1

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.73	Vert(LL)	-0.30	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.68	Vert(CT)	-0.49	7-8	>773	240	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES		WB	0.94	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	-	Wind(LL)	0.04	8-10	>999	240	Weight: 151 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	CHORD 2x4 SPF No.2 CHORD 2x4 SPF No.2 *Except* 9-7:2x4 SPF 21004 1.8E S 2x3 SPF No.2 *Except* 10-4,7-5:2x4 SPF No.2 CING CHORD Structural wood sheathing directly applied 3-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins, (3-8-8 max.): 3-6. CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. S 1 Row at midpt 6-7, 4-10, 4-8, 5-7, 1-1 CTIONS (lb/size) 7=1421/0-3-8, 12=1421/ Mechanical Max Horiz 12=116 (LC 8) Max Uplift 7=-95 (LC 4), 12=-44 (LC 4) Max Grav 7=1583 (LC 2), 12=1537 (LC 2)			This truss ha chord live loa * This truss l on the bottoo 3-06-00 tall l chord and ar Refer to gird Provide mec bearing plate 7 and 44 lb u This truss is International R802.10.2 a	e MT20 plates uni as been designed ad nonconcurrent has been designe m chord in all are: by 2-00-00 wide v ny other members er(s) for truss to t hanical connectio e capable of withs uplift at joint 12. designed in accoo Residential Code nd referenced sta urlin representatio ation of the purlin	for a 10.0 with any do for a liv as where will fit betw s, with BC truss conr on (by oth standing S ordance w e sections andard AN in does no	D psf bottom other live los e load of 20. a rectangle ween the bott DL = $10.0ps$ hections. ers) of truss 5 lb uplift at ith the 2018 c R502.11.1 i USI/TPI 1. bt depict the	ads. .0psf tom sf. to joint and					
			₂₎ LC	DAD CASE(S)									
FORCES	(lb) - Maximum Com		,										
TOP CHORD		-1236/65, 5-6=-10/0	О,										<i>T</i>
BOT CHORD	11-12=-117/21, 10-1 8-10=-100/1346, 7-8	,										TATE OF M	AISS
WEBS	2-11=-640/94, 2-10= 4-10=-161/31, 4-8=- 5-7=-1584/117, 1-11	464/120, 5-8=0/907	,								Å	S/ SCUI	
NOTES											H-	SEVI	EK
1) Unbalance this design		d roof live loads have been considered for									B.	tt	Service
Vasd=91r II; Exp C; and right of DOL=1.60		left							_	AN IN	NUMI PE-2001	018807	
Provide a	dequate drainage to pr	event water ponding	g.									Sec. 1	

3) Provide adequate drainage to prevent water ponding.

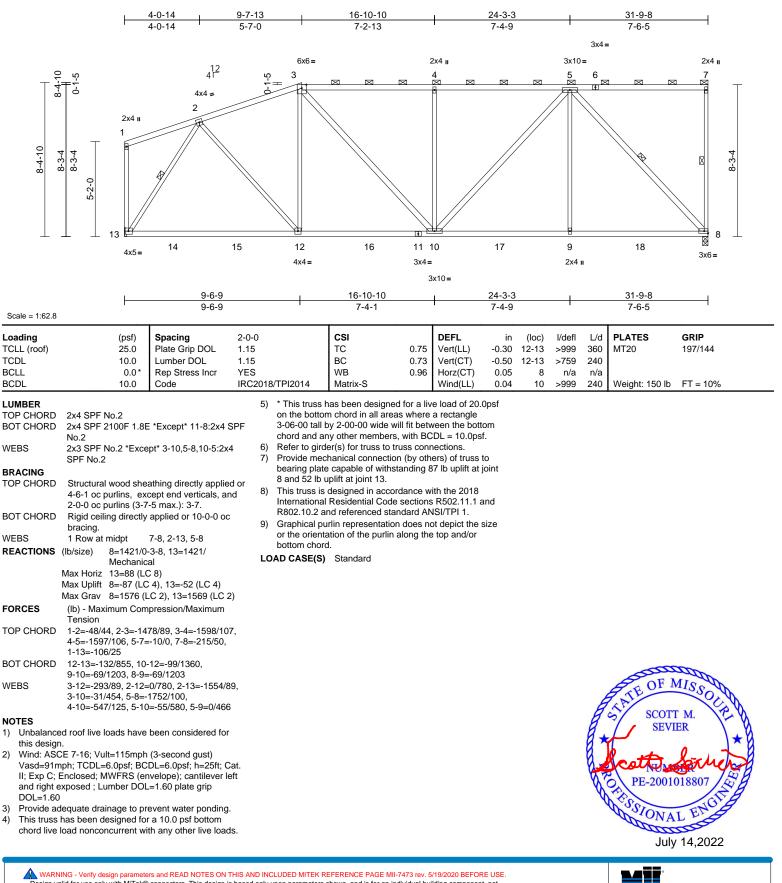
July 14,2022

9-2-15



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E5	Half Hip	1	1	Job Reference (optional)	153060721

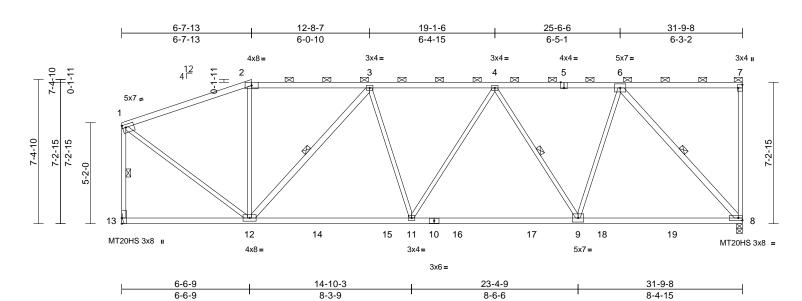
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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E6	Half Hip	1	1	Job Reference (optional)	153060722

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:31 ID:8KCAKo8iVPhIGILLFmQWZeyKZCZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59

Plate Offsets (X, Y): [1:0-2-0,0-1-12], [5:0-2-0,Edge], [7:Edge,0-2-8]

		1	-										
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.79	Vert(LL)	-0.22	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.37	8-9	>999	240	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES		WB	0.70	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 139 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91n II; Exp C; and right e Lumber D	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc purlins (4-C Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 9- 1 Row at midpt (lb/size) 8=1421/0 Mechanic Max Horiz 13=217 (I Max Uplift 8=-89 (LC Max Grav 8=1560 (I (lb) - Maximum Com Tension 1-2=-1292/67, 2-3=- 4-6=-1418/101, 6-7= 1-13=-1440/103 12-13=-197/94, 11-1 9-11=-165/1716, 8-5 2-12=-81/147, 3-12= 1-12=-64/1457, 3-11 4-9=-590/100, 6-9=0	athing directly applie cept end verticals, ar h15 max.): 2-7. applied or 10-0-0 oc 11. 3-12, 6-8, 1-13, 4-9 -3-8, 13=1421/ al _C 5) 5), 13=-77 (LC 4) _C 2), 13=1526 (LC 2 pression/Maximum 1179/84, 3-4=-1793/ -88/62, 7-8=-176/49 [2=-182/1722, 9=-123/1145 -870/66, 6-8=-1710/ [=0/289, 4-11=0/169, 0/922 been considered for (3-second gust) DL=6.0psf; h=25ft; C twelope); cantilever le left and right exposed 0L=1.60	4) 5) 5) = 6) d or 7) 8) 9) 10 2) 10 2) 10 , 10, 10, 10, 110, 111, 111, 121, 12	All plates are This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 8 and 77 lb u This truss is International R802.10.2 ar	MT20 plates unle s been designed ad nonconcurrent has been designed on chord in all area by 2-00-00 wide w by other members er(s) for truss to tr hanical connection e capable of withst uplift at joint 13. designed in accor Residential Code nd referenced star rin representation ation of the purlin d.	for a 10.0 with any d for a liv is where ill fit betv uss conr n (by oth canding & dance w sections ndard AN n does no	wise indicate 0 psf bottom other live load e load of 20. a rectangle veen the bott iDL = 10.0ps ers) of truss 19 lb uplift at ith the 2018 is R502.11.1 at ISI/TPI 1. bt depict the	ed. ads. Opsf om f. to joint and		C			MISSOLP T.M. ER DISSO7

tome July 14,2022

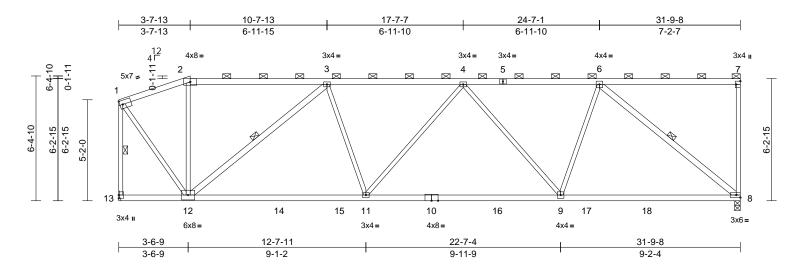
Page: 1



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E7	Half Hip	1	1	Job Reference (optional)	153060723

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:31 ID:rAiF8zRJAbNzJNvBsaOvDPyKZDT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:58.9
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Plate Offsets (X, Y): [7:Edge,0-2-8]

		1											
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.68	Vert(LL)	-0.21	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.63	Vert(CT)	-0.36	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.79	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.06	9-11	>999	240	Weight: 133 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce No.2 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (3-8 Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie cept end verticals, ar -5 max.): 2-7. applied or 10-0-0 oc 3-12, 6-8, 1-13 -3-8, 13=1421/ al _C 5) 25), 13=-79 (LC 4) _C 2), 13=1524 (LC 2	dor 6) dor 7) do 7) 8) 9)	chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird, Provide meci bearing plate 8 and 79 lb u This truss is International R802.10.2 ar Graphical pu		with any d for a liv s where ill fit betw with BC uss conr h (by oth anding 8 dance w sections ndard AN h does no	other live load e load of 20. a rectangle veen the bott DL = 10.0 ps ections. ers) of truss 6 lb uplift at j ith the 2018 c R502.11.1 a ISI/TPI 1. ot depict the s	Opsf om f. to joint and					
TOP CHORD		, ,											
BOT CHORD												000	TOP
 BOT CHORD 12-13=-168/106, 11-12=-189/1872, 9-11=-183/2039, 8-9=-135/1485 WEBS 2-12=-122/83, 3-12=-1372/98, 3-11=0/460, 4-11=-115/73, 4-9=-498/102, 6-9=0/823, 6-8=-1916/128, 1-12=-63/1440 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; 			at.								ß	STE OF M SEVI	ER Server
Lumber D	exposed ; end vertical DOL=1.60 plate grip DC idequate drainage to pr	1,								Ŷ	FESSIONA	L ENGILE	

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



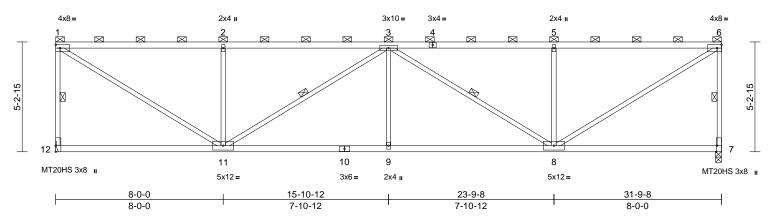
July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E8	Flat	1	1	Job Reference (optional)	153060724

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Page: 1





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Plate Offsets (X, Y): [7:0-3-8,Edge]

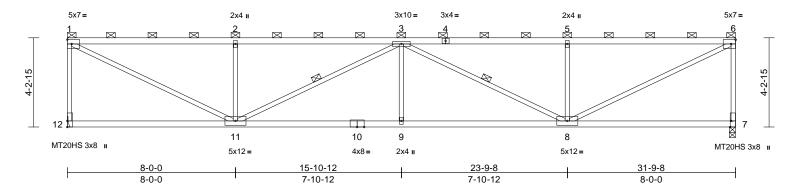
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	18/TPI2014	CSI TC BC WB Matrix-S	0.66 0.73 0.72	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.31 0.06 0.09	(loc) 9 9-11 7 8-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20HS MT20 Weight: 121 lb	GRIP 148/108 197/144 FT = 10%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	BRACING TOP CHORD 2-0-0 oc purlins (4-8-11 max.): 1-6, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 1-12, 6-7, 3-11, 3-8 REACTIONS (lb/size) 7=1421/0-3-8, 12=1421/ Mechanical Max Horiz 12=-150 (LC 4) Max Uplift 7=-81 (LC 5), 12=-81 (LC 4) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD TOP CHORD 1-12=-1352/118, 1-2=-1809/114, 2-3=-1809/114, 3-5=-1809/114, 5-6=-1809/114, 6-7=-1352/118 BOT CHORD 11-12=-129/119, 9-11=-183/2346,				er(s) for truss to tr hanical connectio capable of withs uplift at joint 7. designed in accor Residential Code d referenced sta rlin representation tition of the purlin I. Standard	n (by oth tanding 8 rdance w sections ndard AN n does no	ers) of truss t i1 lb uplift at j ith the 2018 is R502.11.1 a ISI/TPI 1. ot depict the s	oint					
TOP CHORD	TOP CHORD 1-12=-1352/118, 1-2=-1809/114, 2-3=-1809/114, 3-5=-1809/114,												
BOT CHORD	11-12=-129/119, 9-1 8-9=-183/2346, 7-8=												
WEBS	1-11=-126/2110, 2-1 3-11=-633/54, 3-9=0 5-8=-614/148, 6-8=-	1=-614/147,)/298, 3-8=-633/53,										Contraction of the local sector	APP2
NOTES											4	TATE OF M	AISSO STA
Vasd=91n II; Exp C; and right c Lumber D 2) Provide au 3) All plates 4) This truss chord live 5) * This trus on the bot 3-06-00 ta	 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 										B	Sevi Sevi NUM PE-20010	



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E9	Flat	1	1	Job Reference (optional)	153060725

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:32 ID:be4ZZSjhl9qU69JfL_JrnlyKZEP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:54.8	
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Plate Offsets (X, Y): [7:0-3-8,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.84 0.85 0.86	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.22 -0.42 0.08 0.13	(loc) 9 9-11 7 8-9	l/defl >999 >898 n/a >999	L/d 360 240 n/a 240	PLATES MT20HS MT20 Weight: 115 lb	GRIP 148/108 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2 2-0-0 oc purlins (4-0 end verticals. Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 7=1421/0 Mechanic Max Horiz 12=-120 (Max Uplift 7=-77 (LC (Ib) - Maximum Corr Tension	2-14 max.): 1-6, exce applied or 10-0-0 oc 3-11, 3-8 -3-8, 12=1421/ al LC 6) 5), 12=-77 (LC 4) ppression/Maximum 2=-2263/131, -2263/131, -1350/115 -198/2936, -38/34	7) Provide m bearing pla 12 and 77 8) This truss Internation R802.10.2 9) Graphical		n (by oth tanding 7 rdance w sections indard AN n does no	ers) of truss to 77 lb uplift at jo ith the 2018 s R502.11.1 at NSI/TPI 1. bt depict the s	oint nd					
Vasd=91n II; Exp C; and right e Lumber D 2) Provide ac 3) All plates a 4) This truss chord live 5) * This trus on the bot 3-06-00 ta	3-11=-753/54, 3-9=(5-8=-611/146, 6-8=- CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical OL=1.60 plate grip DC dequate drainage to pr are MT20 plates unles has been designed fo load nonconcurrent wi ss has been designed f tom chord in all areas all by 2-00-00 wide will any other members.	140/2495 (3-second gust) DL=6.0psf; h=25ft; Cinvelope); cantilever leleft and right exposed $DL=1.60event water pondings otherwise indicatedr a 10.0 psf bottomth any other live loador a live load of 20.0where a rectangle$	eft d; l. ls. psf							Real Provide P	STATE OF M SCOTT SEVI DE 20010 PE-20010	ER Sevie D18807

July 14,2022

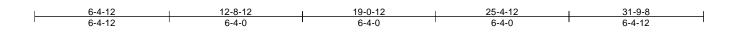
Page: 1

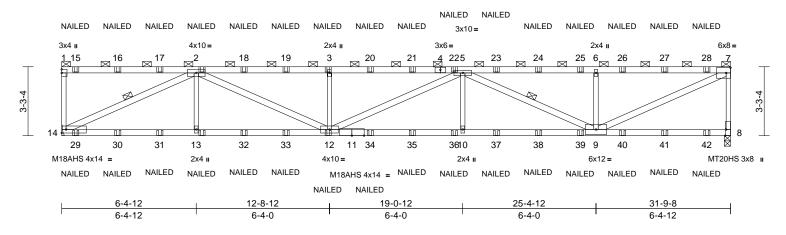


Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	E10	Flat Girder	1	1	Job Reference (optional)	153060726

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:33 ID:A9iRykE91gSoTP?DBM7Er1yKZGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:54.8

Plate Offsets (X, Y): [8:0-3-8,Edge]

		1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.72	Vert(LL)	-0.34	10-12	>999	360	M18AHS	142/136
TCDL	10.0	Lumber DOL	1.15		BC	0.67	Vert(CT)	-0.67	10-12	>567	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.93	Horz(CT)	0.14	8	n/a	n/a	MT20HS	148/108
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.25	10-12	>999	240	Weight: 124 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	end verticals. Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 8=1945/0 Mechanic Max Horiz 14=90 (LC	E pt* -5:2x4 SPF No.2 1-6 max.): 1-7, exce applied or 10-0-0 oc 2-14, 5-9 -3-8, 14=1980/ al C 20)	6) 7) pt 8) 9)	on the bottom 3-06-00 tall b chord and ar Refer to girdd Provide mecl bearing plate joint 14 and 2 This truss is International R802.10.2 ar Graphical pu or the orienta bottom chord	has been designed in chord in all area by 2-00-00 wide wi y other members. er(s) for truss to tr hanical connection e capable of withst 219 lb uplift at join designed in accor Residential Code nd referenced star rlin representation ation of the purlin a dicates 3-10d (0.14	s where ill fit betw uss com n (by oth anding 2 t 8. dance w sections ndard AN n does m along the	a rectangle ween the botto nections. ers) of truss to 223 lb uplift at ith the 2018 s R502.11.1 a VSI/TPI 1. ot depict the s e top and/or	o nd					
FORCES	Max Uplift 8=-219 (L (Ib) - Maximum Com	,. , ,			") toe-nails per NE								
TOROLO	Tension	pression/maximum	11)		CASE(S) section, are noted as front (ace					
TOP CHORD			^{7,} LO 1)	AD CASE(S) Dead + Roc	Standard of Live (balanced):	. ,	. ,	15,					
BOT CHORD	13-14=-434/3435, 12 10-12=-596/5061, 9 8-9=-23/47				ads (lb/ft) =-70, 8-14=-20								
WEBS	2-12=-206/1792, 3-1	8=0/403, 2-14=-3754/ 2=-576/193,)/364, 5-9=-1801/209	,	Vert: 13= 15=-62 (F 19=-47 (F	ed Loads (lb) -20 (B), 2=-47 (B) B), 16=-47 (B), 17 B), 20=-47 (B), 21	=-47 (B) =-47 (B)	, 18=-47 (B), , 22=-47 (B),	3),			Å	STATE OF M	AISSOLA
NOTES					B), 24=-47 (B), 25						R	SCOTT SEVI	
 Wind: ASC Vasd=91rr II; Exp C; I and right e Lumber D Provide ac All plates a This truss 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DC dequate drainage to pr are MT20 plates unles has been designed foi load nonconcurrent wi	DL=6.0psf; h=25ft; C ivelope); cantilever le left and right exposed vL=1.60 event water ponding. s otherwise indicated r a 10.0 psf bottom	ft ;	31=-20 (E 35=-20 (E	3), 28=-47 (B), 29 3), 32=-20 (B), 33 3), 36=-20 (B), 37 3), 40=-20 (B), 41:	=-20 (B) =-20 (B)	, 34=-20 (B), , 38=-20 (B),			-		PE-20010	Server D18807

chord live load nonconcurrent with any other live loads.

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



ann July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G1	Hip Girder	1	2	Job Reference (optional)	153060727

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:34 ID:6vUtsKLbkcY6bVfXs5nH5ByKYjK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

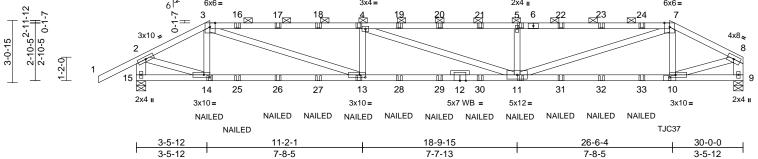


30-0-0

3-7-8

Page: 1

|<u>-1-10-8</u> |-10-8 11-2-1 18-9-15 26-4-8 3-7-8 3-7-8 7-6-9 7-7-13 7-6-9 NAILED 3x6= 12 6 6x6 = 3x4 = 2x4 II 6x6= 16 _____ 3 6 Ŀ-18_ 20 5 23 1



Scale = 1:57

Plate Offsets (X, Y): [3:0-3-2,Edge	e], [7:0-3-2,Edge], [10	:0-3-8,0-1	-8], [13:0-3-8,0	-1-8], [14:0-3-8,0-	1-8]							
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.98	Vert(LL)	-0.26	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.52	Vert(CT)	-0.50	11-13	>708	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.55	Horz(CT)	0.06	9	n/a	n/a	-	
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S	-	Wind(LL)	0.22	11-13	>999	240	Weight: 239 lb	FT = 10%
LUMBER TOP CHORD	1.8E, 6-7:2x4 SPF			(0.131"x3") Top chords	o be connected to nails as follows: connected as follo	ows: 2x4		-0	13) "NA (0.1	ALED" ii 48"x3.2	ndicate 25") toe	es 3-10d (0.148") -nails per NDS g	
BOT CHORD	2x4 SPF 2100F 1.		-		ows staggered at		v4 1 row of		LOAD	•	<i>'</i>		
WEBS	2x4 SPF No.2 *Ex No.2	cept* 15-2,9-8:2x6 SF	۶F	0-9-0 oc.	ds connected as					ead + Ro ate Incre			mber Increase=1.15,
OTHERS	2x3 SPF No.2				cted as follows: 2				Ur	niform L	oads (I	b/ft)	
BRACING			2		considered equa					Vert: 1-	2=-70,	2-3=-70, 3-7=-7	0, 7-8=-70, 9-15=-20
TOP CHORD	6-0-0 oc purlins, e 2-0-0 oc purlins (4	,	Ind	CASE(S) se provided to	ted as front (F) or ection. Ply to ply c distribute only loa rwise indicated.	onnection	s have been	JAD		11=-50	4=-84 ((В), 10	B), 13=-50 (B), 4)=-306 (B), 16=-	4=-118 (B), 5=-118 (B), 118 (B), 17=-118 (B),
BOT CHORD	Rigid ceiling direct bracing, Except: 6-0-0 oc bracing:	ly applied or 10-0-0 o 14-15.	3	 3) Unbalanced roof live loads have been considered for this design. 10 (b), 19=-116 (b), 21=-116 (b), 21=-116									
	Max Horiz 15=78 (/0-5-8, 15=2511/0-5-8 LC 5) (LC 4), 15=-490 (LC 5	5	 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and 30=-50 (B), 31=-50 (B), 32=-50 (B), 33=-50 (B), 33=-50 (B), 32=-50 (B), 33=-50 (B)									0 (B), 33=-50 (B)
FORCES	-	mpression/Maximum			ed; Lumber DOL=								
TOROLO	Tension	mpression/maximum	5		quate drainage to								
TOP CHORD		68/679, 3-4=-7146/14			as been designed			J.					
	4-5=-7233/1477, 5		, .		ad nonconcurren			ds.					
	7-8=-3560/689, 2-		7		has been designe	,							
	8-9=-2538/466				m chord in all are								110
BOT CHORD	14-15=-97/68, 13-	,		3-06-00 tall	by 2-00-00 wide \	will fit betw	veen the botto	om				TATE OF	MIG
		2, 10-11=-612/3201,		chord and a	ny other member	s.						AFUT	MISS S
	9-10=-42/50		8		chanical connection						A		N.S.
WEBS	3-14=-572/221, 3-				e capable of with		90 lb uplift at				A	SCOT	TM.
	4-13=-1120/489, 4				480 lb uplift at joi						H		TER Y
	5-11=-1086/483, 7 7-10=-395/210, 2- 8-10=-611/3267	,	g	Internationa	designed in acco I Residential Cod	e sections	8 R502.11.1 a	nd			80	1.++	*
NOTEO	0-10-011/3207				and referenced sta						XX	an	LA Make
NOTES			1		urlin representatio ation of the purlin			size			8ª	PE-200	

bottom chord. 11) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 26-4-8 from the left end to connect truss (es) to back face of bottom chord, skewed 33.7 deg.to the left, sloping 0.0 deg. down.

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July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G2	Нір	1	1	Job Reference (optional)	153060728

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:35 ID:SF7CW99laoJtSblugDYXfkyKYkr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

|<u>-1-10-8</u> |-10-8 10-2-6 18-0-15 25-0-8 30-0-0 4-11-8 4-11-8 5-2-14 7-10-9 6-11-9 4-11-8 3x6 =6¹² 4x4 = 3x4 = 4x4= 6x6= 3-7-12 0-1-9 0-1-9 ⊠5 3 4⊲ 6 7 \boxtimes \bowtie \bowtie \bowtie • 4-5-8 • 3-6-3 3-6-3 3-8-15 3x6 🞜 3x4 II 2 8 1-2-0 8-5 Þ A 9 15 • 11 Ø 14 13 12 10 2x4 II 2x4 II 2x4 II 4x8= 3x4= 3x4= 4x4= 25-1-12 4-10-4 14-1-10 23-3-12 30-0-0 H 1-10-0 4-10-4 9-3-6 9-2-2 4-10-4

Scale = 1:57.2

Scale = 1:57.2												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2	CSI TC BC WB 014 Matrix-3	0.76 0.76 0.73 S	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	0.04	(loc) 13-14 13-14 11 13-14	l/defl >999 >843 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 103 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 4-8-11 oc purlins, e 2-0-0 oc purlins (3-9 Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 9=138/0-5 15=1146/ Max Horiz 15=85 (LC Max Uplift 9=-75 (LC 15=-129 (Max Grav 9=158 (LC 15=1146	applied or 6-0-0 oc 5-11 5-8, 11=1531/0-3-8, 0-5-8 C 7) C 9), 11=-231 (LC 5), LC 5) C 16), 11=1531 (LC 1 (LC 1)	d or d or md 3) * Thi 3-06 chor bear joint 7) This Inter R80 8) Grap or th botto LOAD C	d live load noncous s truss has been e bottom chord ii o00 tall by 2-00-0 d and any other r ide mechanical c ing plate capable 15, 231 lb uplift a truss is designed national Resideni 2.10.2 and referei hical purlin repre	onnection (by oth of withstanding ' ti joint 11 and 75 in accordance w tial Code sections need standard AN sentation does n the purlin along the	other live loa e load of 20.0 a rectangle ween the botto ers) of truss t 29 lb uplift at b uplift at joir ith the 2018 R502.11.1 a ISI/TPI 1.	Opsf om to to to to 9.					
FORCES	,	1/191, 3-4=-1148/188	,									
BOT CHORD	2-15=-1115/143, 8-9	14=-352/1739,	5,								TATE OF M	AISSO
WEBS	,	744/247, 4-13=-232/ 1728/411, 7-11=-559/ 22/1101	,							A	SCOTT SEVI	TM.
this desig 2) Wind: AS Vasd=91r II; Exp C; cantilever right expo	ed roof live loads have	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zom ; end vertical left and 0 plate grip DOL=1.6	e; I O							* Ph	PE-20010	LENGINE

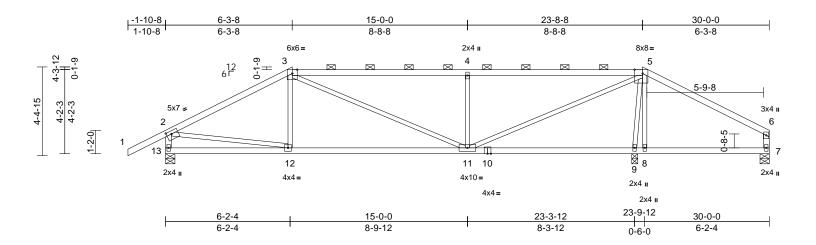
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G3	Нір	1	1	Job Reference (optional)	153060729

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:35 ID:KOC9xe_HfhzniXF3xeoYh3yKYmN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.3

Plate Offsets	(X Y).	[2:0-3-0,0-1-12], [5:0-4-13,Edge]

	X, T). [2.0-3-0,0-T-T2	.j, [5.0-4-13,⊏uge]										-	
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.68	Vert(LL)	-0.13	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.61	Vert(CT)	-0.29	11-12	>949	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.80	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.08	11-12	>999	240	Weight: 106 lb	FT = 10%
LUMBER			3)		quate drainage to p			g.					
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 3-5:2x4 SPF 210	00F 4)		as been designed f ad nonconcurrent v			ads.					
BOT CHORD	2x4 SPF No.2		5)) * This truss	has been designed	for a liv	e load of 20.	0psf					
WEBS	2x3 SPF No.2 *Exce No.2	ept* 13-2,7-6:2x4 SP	F	3-06-00 tall	m chord in all areas by 2-00-00 wide wi			om					
BRACING					ny other members.								
TOP CHORD	Structural wood she 4-4-12 oc purlins, e 2-0-0 oc purlins (5-0	xcept end verticals, a		bearing plate joint 13, 108	chanical connection e capable of withsta Ib uplift at joint 7 a	anding 1 Ind 171	35 Ib uplift at loir lb uplift at loir	t					
BOT CHORD	Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 9-	applied or 10-0-0 oc	7)	International R802.10.2 a	designed in accord Residential Code nd referenced stan	sections	s R502.11.1 a NSI/TPI 1.						
REACTIONS	(lb/size) 7=306/0-5 13=1193/	5-8, 9=1316/0-3-8, 0-5-8	8,	or the orient	urlin representation ation of the purlin a			size					
	Max Horiz 13=92 (L0			bottom chor	d.								
	Max Uplift 7=-108 (L 13=-135 (.C 9), 9=-171 (LC 5),	L	OAD CASE(S)	Standard								
	Max Grav 7=308 (L0 13=1193	C 22), 9=1316 (LC 1)),										
FORCES	(lb) - Maximum Com	. ,											
TOP CHORD	Tension 1-2=0/63, 2-3=-1478 4-5=-1593/314, 5-6= 2-13=-1143/163, 6-7	-214/135,	6,									STATE OF M	MISS
BOT CHORD	12-13=-126/190, 11- 9-11=-86/44, 8-9=-5	-12=-181/1236,									A	A AL	No 300
WEBS	3-12=-6/205, 5-8=-1 4-11=-714/295, 5-11 3-11=-180/493, 5-9=	29/42, 2-12=-146/10 I=-348/1787,	990,							l		S SCOT SEV	
1) Unbalance	ed roof live loads have	been considered for	r							-	KQ;	NUM	werner
this design	1. CE 7 16: \/ult_115mph	(2 cocond quet)									N.	OX PE-2001	018807

- 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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

July 14,2022



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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G4	Нір	1	1	Job Reference (optional)	153060730

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:35 ID:z9trK7jUrwCv38aqe0OOoQyKYmj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

23-3-12

8-3-12

Page: 1

6x6 👟

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30-0-0

6-8-4

2x4 II

6

7

|<u>-1-10-8</u> |1-10-8 7-7-8 15-0-0 22-4-8 30-0-0 7-7-8 7-4-8 7-4-8 7-7-8 6x6= 2x4 II MT18HS 5x14 = 4-11-12 0-1-9 3 5 4 _ \bowtie 612 4-10-3 4-10-3 5-0-15 6x8= 2 1-2-0 A • 12 ١¢ × 8 11 10 9 3x4 u 3x4= 4x8= 4x4= 3x4=

15-0-0

7-5-12

Scale = 1:57.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-9-12,0-1-12], [6:0-3-0,0-1-8]

7-6-4

7-6-4

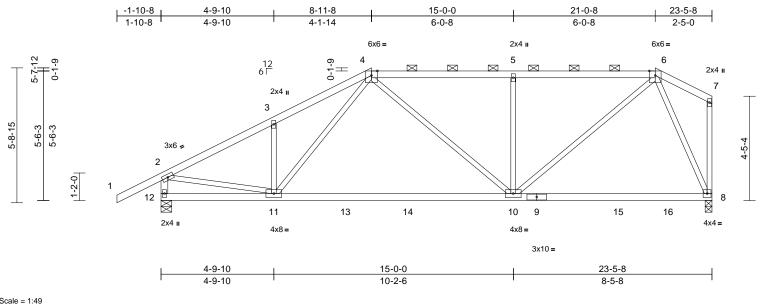
Plate Olisets (A, f). [2.0-3-6,Euge],	, [5.0-9-12,0-1-12], [0	5.0-3-0,0-1	-0]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.75 0.49 0.76	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.18 0.02 0.05	(loc) 8-10 8-10 7 10-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 110 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x3 SPF No.2 *Exce No.2 Structural wood she 3-8-6 oc purlins, ex 2-0-0 oc purlins (4-4 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 8- (Ib/size) 7=115/0-5 12=1142/	cept end verticals, ar I-3 max.): 3-5. / applied or 10-0-0 oc 10. 5-8, 8=1559/0-3-8, /0-5-8	5) F 6) ed or nd 7)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate joint 12, 90 II This truss is International R802.10.2 au Graphical pu	MT20 plates unle s been designed to ad nonconcurrent to as been designed n chord in all area by 2-00-00 wide wi and the members. The to the members hanical connection c capable of withst o uplift at joint 7 ar designed in accor Residential Code nd referenced star rlin representation ation of the purlin a	for a 10. with any s where ill fit betw n (by oth anding 1 nd 154 lb dance w sections ndard AN n does no	D psf bottom other live loa e load of 20.0 a rectangle ween the bottu ers) of truss t 48 lb uplift at uplift at joint ith the 2018 R502.11.1 a USI/TPI 1.	ds. Dpsf om 8. 8.					
	Max Horiz 12=102 (L Max Uplift 7=-90 (LC 12=-148 (Max Grav 7=145 (LC 12=1142	C 9), 8=-154 (LC 4), (LC 8) C 16), 8=1559 (LC 1)		bottom chord	i								
FORCES	(lb) - Maximum Com Tension	. ,											
TOP CHORD	1-2=0/63, 2-3=-1354 4-5=-1154/226, 5-6= 2-12=-1072/188, 6-7	=-70/400,	δ,									Contraction of the	APP
BOT CHORD	11-12=-193/330, 10- 8-10=-52/32, 7-8=-1	,									1	TATE OF M	11SSO
WEBS		121/195, 4-10=-603/2 11=-111/785,	249,									S SCOTT SEVI	
this desigr 2) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos	ed roof live loads have	been considered for (3-second gust) :DL=6.0psf; h=25ff; C nvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	Cat. ie; d 60							-	A State	PE-20010	

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G5	Нір	1	1	Job Reference (optional)	153060731

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:36 ID:8TSjwSEOGe9aG?W8lcg0A_yKYnL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.51	Vert(LL)	-0.30	10-11	>923	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.53	10-11	>526	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.84	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/1	TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240	Weight: 94 lb	FT = 10%
LUMBER			6)	Provide mec	hanical connecti	on (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2		1	bearing plate	capable of with	standing 1	153 lb uplift a	t					
BOT CHORD	2x4 SPF No.2		j	joint 12 and	124 lb uplift at jo	int 8.							
NEBS	2x3 SPF No.2 *Exce	ept* 12-2:2x4 SPF No.			designed in acco								
BRACING					Residential Cod			and					
TOP CHORD	Structural wood she	athing directly applied	0		nd referenced sta								
	4-5-15 oc purlins, e	except end verticals, a			rlin representation			size					
	2-0-0 oc purlins (4-1	10-5 max.): 4-6.			ation of the purlin	n along the	e top and/or						
BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc	1	bottom chore	1.								
	bracing.		LOA	D CASE(S)	Standard								
REACTIONS	(lb/size) 8=1038/0	-3-8, 12=1192/0-5-8											
	Max Horiz 12=204 (I	LC 7)											
	Max Uplift 8=-124 (L	_C 5), 12=-153 (LC 8)											
	Max Grav 8=1112 (I	LC 2), 12=1223 (LC 2))										
FORCES	(lb) - Maximum Corr	npression/Maximum											
	Tension												
TOP CHORD	1-2=0/63, 2-3=-1562	2/118, 3-4=-1536/219,											
	4-5=-1237/167, 5-6=	-1237/167, 6-7=-94/6	6,										
	2-12=-1195/162, 7-8	8=-91/39											
BOT CHORD	11-12=-204/87, 10-1	11=-231/1114,											
	8-10=-116/422												
WEBS	5-10=-507/206, 6-8=	,											
		1=-273/180, 4-11=-92/	410,										
	4-10=-59/254, 6-10=	=-135/1088											and the
NOTES												STATE OF	ALL OF
1) Unbalance	ed roof live loads have	been considered for										ALE OF	WISS OF
this design											4		N.S.
	CE 7-16; Vult=115mph										H	SCOT	TM YEN
		DL=6.0psf; h=25ft; Ca									B	SEV	IFR VY
		nvelope) exterior zone	;								81		
cantilever	left and right exposed	; end vertical left and									Bat		

- cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3) 4)
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

NUMBER PE-2001018807 C RSSIONAL E July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G6	Hip	1	1	Job Reference (optional)	153060732

6-4-15

TCDL

BCLL

BCDL

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Wed. Jul 13 07:57:36 Page: 1 ID:6mBSFJAmIPlistWTLvd9H8yKYq?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-10-8 6-9-10 10-3-8 15-0-0 19-8-8 23-5-8 1-10-8 6-9-10 3-5-14 4-8-8 4-8-8 3-9-0 2x4 II 6x6 = 6x6= 4 5 6 0-1-9 \boxtimes \bowtie \mathbf{X} \mathbf{X} ____ 2x4 II 2x4 🛛 1<u>2</u> 6 Г 3 7 6-2-3 6-2-3 6x6 🚽 2 -2-0 12 4 8 ₿ 11 13 14 10 9 15 16 3x4 I 3x6= 3x10= 4x8 =3x6= 6-9-10 15-0-0 23-5-8 6-9-10 8-2-6 8-5-8 Scale = 1:49.2 Plate Offsets (X, Y): [2:0-3-0,0-1-12] Loading Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 тс 0.54 Vert(LL) -0.20 8-10 >999 360 MT20 197/144 10.0 Lumber DOL 1.15 BC 0.77 Vert(CT) -0.34 8-10 >811 240 0.0* Rep Stress Incr YES WB Horz(CT) 0.02 0.48 8 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.04 10-11 >999 240 Weight: 98 lb FT = 10% LUMBER 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle TOP CHORD 2x4 SPF No.2 3-06-00 tall by 2-00-00 wide will fit between the bottom BOT CHORD 2x4 SPF No.2 chord and any other members, with BCDL = 10.0psf. 2x3 SPF No.2 *Except* 12-2:2x4 SPF No.2 WEBS Provide mechanical connection (by others) of truss to 6) BRACING bearing plate capable of withstanding 164 lb uplift at TOP CHORD Structural wood sheathing directly applied or joint 12 and 84 lb uplift at joint 8. 4-3-14 oc purlins, except end verticals, and This truss is designed in accordance with the 2018 7) 2-0-0 oc purlins (5-5-3 max.): 4-6. International Residential Code sections R502.11.1 and BOT CHORD Rigid ceiling directly applied or 10-0-0 oc R802.10.2 and referenced standard ANSI/TPI 1. bracing. Graphical purlin representation does not depict the size 8) WEBS 1 Row at midpt 6-8 or the orientation of the purlin along the top and/or **REACTIONS** (lb/size) 8=1038/0-3-8. 12=1192/0-5-8 bottom chord. Max Horiz 12=213 (LC 7) LOAD CASE(S) Standard Max Uplift 8=-84 (LC 5), 12=-164 (LC 8) Max Grav 8=1122 (LC 2), 12=1225 (LC 2) FORCES (Ib) - Maximum Compression/Maximum

Tension 1-2=0/63, 2-3=-1542/148, 3-4=-1494/264, TOP CHORD 4-5=-1085/128, 5-6=-1085/128, 6-7=-119/81, 2-12=-1129/198, 7-8=-138/54 BOT CHORD 11-12=-223/277, 10-11=-190/1054, 8-10=-120/556 WEBS 3-11=-353/220, 6-8=-1024/172, 2-11=-8/1080, 5-10=-403/162, 4-11=-154/508, 4-10=-55/147, 6-10=-87/867

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.



-5-4





Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G7	Нір	1	1	Job Reference (optional)	153060733

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:36 ID:WXHJAvbfcfiW6VrFXqmuK0yKYqI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

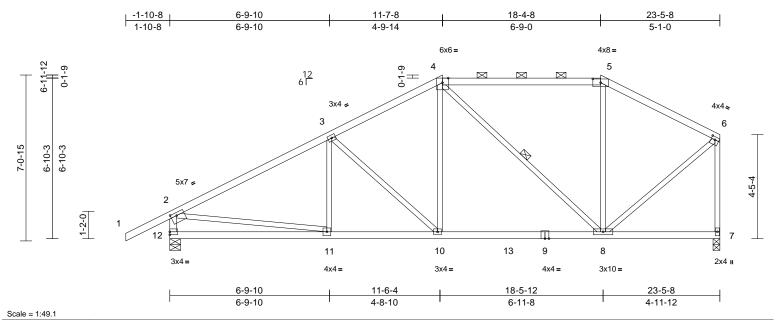


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [5:0-4-0,0-1-15], [6:0-2-0,0-1-8]

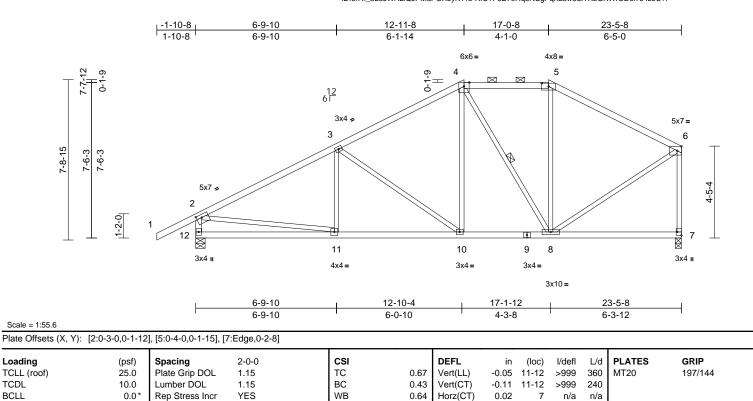
	A, T). [2.0-3-0,0-1-6],	[5.0-4-0,0-1-15], [6.0	0-2-0,0-1-	·oj									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.74 0.51 0.40	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.17 0.02 0.03	(loc) 8-10 8-10 7 10-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 99 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 4-4-8 oc purlins, ex 2-0-0 oc purlins (5-0 Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie cept end verticals, ar -4 max.): 4-5. applied or 10-0-0 oc 4-8 -3-8, 12=1192/0-5-8 -C 7) : 9), 12=-174 (LC 8) -C 2), 12=1214 (LC 2)	6; nd or 7; 8; 8;	on the bottor 3-06-00 tall b chord and ar) Provide mec bearing plate joint 12 and ') This truss is International R802.10.2 ai		is where ill fit betw , with BC n (by oth tanding 1 7. rdance w sections ndard AN n does no	a rectangle veen the bott DL = 10.0ps ers) of truss 74 lb uplift a th the 2018 R502.11.1 a NSI/TPI 1.	f. to t					
TOP CHORD	Tension 1-2=0/63, 2-3=-1504 4-5=-683/113, 5-6=- 6-7=-1034/89	1/172, 3-4=-1185/169											
BOT CHORD	11-12=-225/296, 10- 8-10=-150/999, 7-8= 3-11=-28/140, 3-10= 4-8=-474/92, 5-8=-11 2-11=0/1033	=-56/44 =-371/164, 4-10=-41/-										TE OF I	MISSO
 this design Wind: ASC Vasd=91n II; Exp C; cantilever right exposizion Provide act This truss 	ed roof live loads have CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding r a 10.0 psf bottom	Cat. e; d 50								* Ph	SCOT SEVI PE-2001	I M. ER 1800 X 018807

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G8	Нір	1	1	Job Reference (optional)	153060734

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:37 ID:6h4I_3L6JWALiQJPMdPCXoyKYr3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



TOP	CHORD
BOT	CHORD
	~

BCDL

LUMBER

WEBS	2x3 SPF No.2 *Except* 12-2:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-8
REACTIONS	(lb/size) 7=1038/0-3-8, 12=1192/0-5-8
	Max Horiz 12=230 (LC 5)
	Max Uplift 7=-87 (LC 9), 12=-181 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/63, 2-3=-1464/188, 3-4=-1039/171, 4-5=-676/143, 5-6=-844/136,
BOT CHORD	2-12=-1126/216, 6-7=-981/115 11-12=-226/231, 10-11=-190/1216, 8-10=-109/831, 7-8=-55/43

10.0

2x4 SPF No.2

2x4 SPF No.2

Code

 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Wind(LL)

0.04

10-11

>999

240

Matrix-S

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 12 and 87 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

IRC2018/TPI2014



Weight: 101 lb

FT = 10%

July 14,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

2-11=-19/1037

3-11=-11/184, 3-10=-473/187, 4-10=-54/365,

4-8=-385/98, 5-8=-141/116, 6-8=-52/786,

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

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	G9	Нір	1	1	Job Reference (optional)	153060735

Scale = 1:62.3

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:37 ID:sP_UyMq7RImS2pX8L587HkyKYrk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

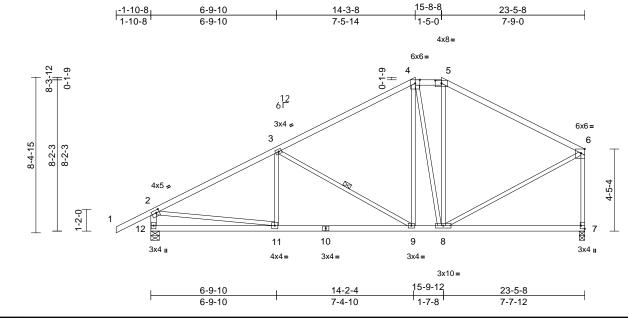


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-4-0,0-1-15], [6:0-2-8,Edge], [7:Edge,0-2-8]

					1								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.74	Vert(LL)	-0.10	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.20	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.65	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC20	8/TPI2014	Matrix-S	-	Wind(LL)	0.04	9-11	>999	240	Weight: 104 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 5-6:2x4 SPF 21	5 00F	on the botto	nas been designe n chord in all are by 2-00-00 wide v	as where	a rectangle	•					
BOT CHORD					y other member								
WEBS	2x3 SPF No.2 *Exce	ept* 12-2:2x4 SPF N	lo.2 6) Provide med	hanical connection	on (by oth	ers) of truss	to					
BRACING					e capable of with		88 lb uplift a	t					
TOP CHORD	4-1-14 oc purlins, except end verticals, and 7) This truss is designed in accordance with the 2018 2-0-0 oc purlins (6-0-0 max): 4-5 International Residential Code sections R502.11.1 and												
BOT CHORD	RBD Rigid ceiling directly applied or 10-0-0 oc bracing. 8) R802.10.2 and referenced standard ANSI/TPI 1. B) Graphical purlin representation does not depict the size												
WEBS	U U	3-9		or the orient	ation of the purlin	along the	top and/or						
		-3-8, 12=1192/0-5-8	8	bottom chore	d.								
REACTIONS	Max Horiz 12=239 (I		Ľ	OAD CASE(S)	Standard								
	Max Uplift 7=-99 (LC	,)										
FORCES	(lb) - Maximum Corr		,										
FURGES	Tension	ipression/maximum	1										
TOP CHORD		1/203 3-4965/166	3										
	4-5=-704/175, 5-6=-	,	,										
	2-12=-1129/221, 6-7												
BOT CHORD	,												
	8-9=-66/751, 7-8=-5	,											
WEBS	3-11=-4/207, 3-9=-5		2,										The second second
	4-8=-410/137, 5-8=-											A TI	and the
	2-11=-49/1096	,	,									F. OF I	NISS OF
NOTES											4	TATE OF A	N.S.
	ed roof live loads have	been considered for	or								B	SCOT	TM YEN
this design											И	SEVI	
0	 CE 7-16; Vult=115mph									Ba			
	nph; TCDL=6.0psf; BC	Cat.									1 det		
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;												Cato 1	Gerne
cantilever	left and right exposed	; end vertical left ar	nd							-	45	NUM	BER

right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 3)

This truss has been designed for a 10.0 psf bottom 4)

chord live load nonconcurrent with any other live loads.

PE-200101880

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July 14,2022

SSIONAL



Job	Truss	Truss Type	Qty Ply Boyer Res Roof		Boyer Res Roof	
210568	G10	Common	3	1	Job Reference (optional)	153060736

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:38

Wheeler Lumber, Waverly, KS - 66871,

Scale = 1:57.8

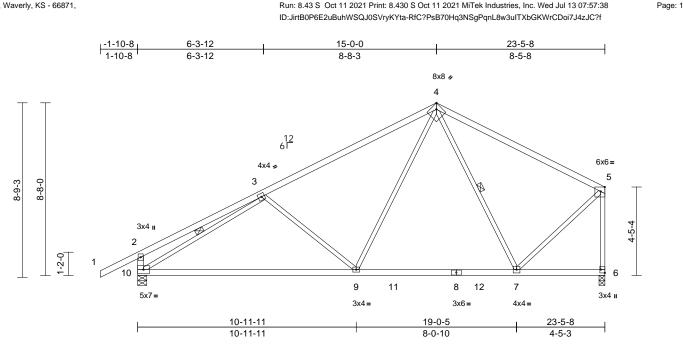


Plate Offsets (X, Y): [4:0-2-11,Edge], [5:0-2-8,Edge], [6:Edge,0-2-8]

			U ,										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.85	Vert(LL)	-0.26	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.57	Vert(CT)	-0.53	9-10	>526	240	-	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.64	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.03	7-9	>999	240	Weight: 93 lb	FT = 10%
			5)	Drovido moo	hanical connection	n (hu oth	ora) of truco t						
LUMBER TOP CHORD	2x4 SPF 2100F 1.8E	=	5)		e capable of withst								
BOT CHORD	2x4 SPF 2100F 1.8E		PF		105 lb uplift at join								
	No.2		6)		designed in accor		ith the 2018						
WEBS	2x3 SPF No.2 *Exce	pt* 10-2:2x4 SPF N	0.2		Residential Code			ind					
BRACING				R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she		ed or LO	DAD CASE(S)	Standard								
	5-5-3 oc purlins, ex	•											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С										
WEBS	bracing. 1 Row at midpt	4-7, 3-10											
REACTIONS		-3-8, 10=1192/0-5-8											
AEACTIONS	Max Horiz 10=244 (L	,											
	Max Uplift 6=-105 (L		3)										
	Max Grav 6=1110 (L												
FORCES	(lb) - Maximum Com		,										
	Tension												
TOP CHORD	1-2=0/63, 2-3=-349/	32, 3-4=-1258/199,											
	4-5=-759/152, 2-10=	,											
BOT CHORD	9-10=-291/1281, 7-9	,											
WEBS	4-7=-396/101, 4-9=-	,	98,										
	3-10=-1253/242, 5-7	=-35/790											~
NOTES	ed roof live loads have	boon considered to	r									STATE OF I	and the second
this design		Deen considered to									FE OF I	NISS D	
0	 CE 7-16; Vult=115mph	(3-second gust)									6		1.50
	nph; TCDL=6.0psf; BC		Cat.								A	SCOT	TM. CA
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zor	ne;								4	SEV	ER \ Y

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3)

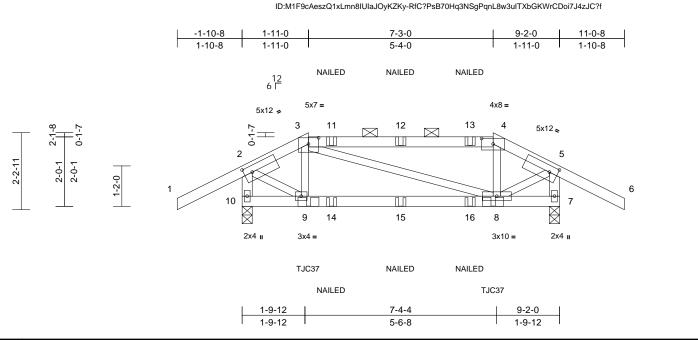
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.





Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	H1	Hip Girder	1	1	Job Reference (optional)	153060737

Scale = 1:33.3



Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:38

Plate Offsets (X, Y): [2:0-2-13,0-2-4], [3:0-3-8,0-2-3], [4:0-4-0,0-1-15], [5:0-2-13,0-2-4]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3, 2 , 3, 2	,-	-1,1									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.53 0.27 0.13	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.05 0.00 -0.01	(loc) 8-9 8-9 7 8-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 38 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2	ept* 10-2,7-5:2x4 SPI	5) F 6)	on the botto 3-06-00 tall chord and a Provide med	has been designe m chord in all are by 2-00-00 wide v ny other members chanical connection e capable of withs	as where vill fit betv s. on (by oth	a rectangle veen the botto ers) of truss t	om o					
TOP CHORD BOT CHORD	Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly	cept end verticals, ar 0-0 max.): 3-4.		This truss is Internationa R802.10.2 a	275 lb uplift at join designed in acco Residential Code nd referenced sta	ordance w e sections andard AN	R502.11.1 a ISI/TPI 1.						
	bracing. (Ib/size) 7=456/0-3 Max Horiz 10=-59 (L Max Uplift 7=-275 (L Max Grav 7=500 (L0	.C 9), 10=-275 (LC 8)		or the orient bottom chor Use Simpso equivalent a	urlin representatio ation of the purlin d. n Strong-Tie TJC t 1-11-0 from the face of bottom ch	along the 37 (6 nail left end to	top and/or 30-90) or connect true	s					
FORCES	(lb) - Maximum Com Tension 1-2=0/63, 2-3=-396/ 4-5=-396/242, 5-6=0 5-7=-518/258	242, 3-4=-352/237,	10	the left, slop Use Simpso equivalent a to front face	ing 0.0 deg. down n Strong-Tie TJC t 7-3-0 from the le of bottom chord, g 0.0 deg. down.	n. 37 (6 nail eft end to	90-150) or connect truss	(es)					
BOT CHORD WEBS	9-10=-102/56, 8-9=- 3-9=-283/79, 3-8=-2 2-9=-241/488, 5-8=-	0/22, 4-8=-282/78,) "NAILED" in	oles where hange dicates 3-10d (0.25") toe-nails per N	148"x3") o	or 3-12d	ber.					-110
this design 2) Wind: ASC Vasd=91m II; Exp C; E cantilever	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and	L(1) Cat. e;	of the truss a OAD CASE(S) Dead + Ro Plate Incre Uniform Lo	of Live (balanced) ase=1.15 ads (lb/ft) 2=-70, 2-3=-70, 3-	: (F) or ba	ck (B). Increase=1.	15,				STATE OF J	MISSOUR T.M. ER
a) B		S plato grip DOL-1.0		1-10=-20									and the

Vert: 9=140 (F), 8=140 (F), 11=-26 (F), 12=-26 (F),

13=-26 (F), 14=-11 (F), 15=-11 (F), 16=-11 (F)

- right exposed; Lumber DOL=1.60 plate grip DOL=1.603) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

July 14,2022

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Page: 1

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

Concentrated Loads (lb)



NUMBER

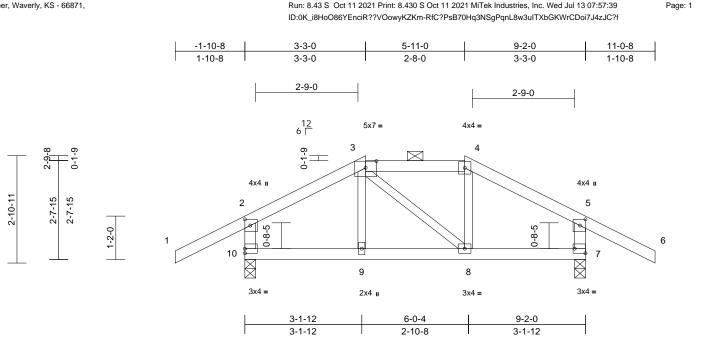
PE-200101880

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	H2	Нір	1	1	Job Reference (optional)	153060738

Scale = 1:31



Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:39

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [3:0-3-8,0-2-3], [5:0-2-0,0-1-12], [7:Edge,0-1-8]

						-							
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.43	Vert(LL)	-0.04	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.31	Vert(CT)	-0.08	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.02	8-9	>999	240	Weight: 35 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x3 SPF No.2 *Exce	pt* 10-2,7-5:2x4 SP	6) F 7)	bearing plate 10 and 88 lb This truss is	hanical connection capable of withs uplift at joint 7. designed in acco	standing 8 ordance wi	8 lb uplift at j	joint					
	No.2				Residential Code			and					
BRACING			0)		nd referenced sta								
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exe 2-0-0 oc purlins (6-0	cept end verticals, a			Irlin representatio ation of the purlin d.			SIZE					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	b Li	OAD CASE(S)	Standard								
REACTIONS	(lb/size) 7=541/0-3	8-8, 10=541/0-3-8											
	Max Horiz 10=-68 (L												
	Max Uplift 7=-88 (LC	9), 10=-88 (LC 8)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/63, 2-3=-356/3 4-5=-356/34, 5-6=0/6 5-7=-454/108	, ,											
BOT CHORD	9-10=-14/245, 8-9=-	15/245, 7-8=0/245											
WEBS	3-9=0/84, 3-8=-31/32	2, 4-8=-11/84											
NOTES													
 Unbalance this design 	ed roof live loads have n.	been considered for	r									OF	ALC: NO
Vasd=91m II; Exp C; E cantilever right expos	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.60 dequate drainage to pro	DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left and 0 plate grip DOL=1.6	ne; d 60							7		STATE OF SCOT	T M. EER D *

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4)
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

NUMBER WORKSSIONAL PE-2001018807 E July 14,2022

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	НЗ	Common	2	1	Job Reference (optional)	153060739

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Wed Jul 13 07:57:39

Wheeler Lumber, Waverly, KS - 66871,

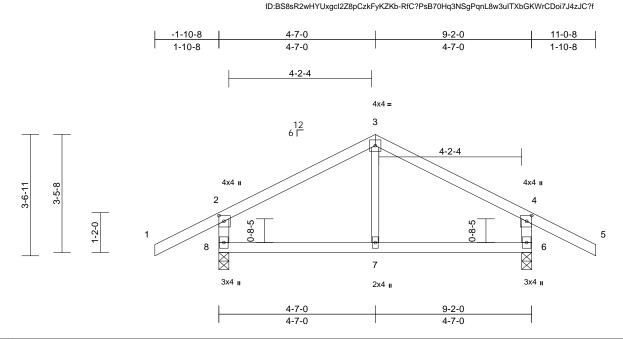


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [4:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.44	Vert(LL)	-0.03	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	7-8	>999	240	Weight: 31 lb	FT = 10%

LUMBER

Scale = 1:33.8

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 6=541/0-3-8, 8=541/0-3-8 Max Horiz 8=-77 (LC 6) Max Uplift 6=-97 (LC 9), 8=-97 (LC 8)

- FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/63, 2-3=-346/62, 3-4=-346/62, 4-5=0/63, 2-8=-465/127, 4-6=-465/127
- BOT CHORD 7-8=0/225, 6-7=0/225 WEBS 3-7=0/150

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 97 lb uplift at joint 8 and 97 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.

LOAD CASE(S) Standard



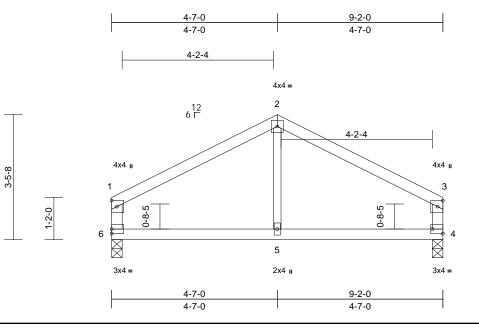
July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	H4	Common	1	1	Job Reference (optional)	153060740

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Wed Jul 13 07:57:39 ID:NZJ0lp3BzsJ6Q_OgHdvYhZyKZKQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.9

Plate Offsets (X, Y): [4:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.04	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.07	5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	5-6	>999	240	Weight: 26 lb	FT = 10%

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2
- 2x4 SPF No.2 *Except* 5-2:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 4=399/0-3-8, 6=399/0-3-8 Max Horiz 6=-64 (LC 4) Max Uplift 4=-48 (LC 9), 6=-48 (LC 8) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-387/67, 2-3=-387/67, 1-6=-317/76, 3-4=-317/76 BOT CHORD 5-6=-7/274, 4-5=-7/274 WEBS 2-5=0/139

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 48 lb uplift at joint 6 and 48 lb uplift at joint 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.

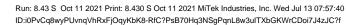
LOAD CASE(S) Standard



July 14,2022

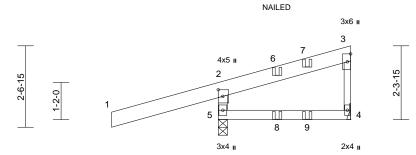


Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	153060741









NAILED

NAILED

4-2-6

Scale = 1:36.5

Plate Offsets	(X,	Y):	[2:0-2-8,0-1-12]
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	(,,, :): [2:0 2 0;0 : 12	, ,	-										
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.65	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.11	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	IRC20	18/TPI2014	Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 25 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF 2400F 2.0E 2x4 SPF No.2 *Exce	pt* 3-4:2x3 SPF No	.2	(0.148"x3.25 Hanger(s) or provided suf Ib down and	dicates 3-10d (0 ") toe-nails per other connection ficient to suppor 47 lb up at -2-1 tion of such cor	NDS guidii on device(s rt concentra 1-8 on top c	nes.) shall be ited load(s) 2 :hord. The						
TOP CHORD	Structural wood she 5-5-6 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals.	9	responsibility) In the LOAD of the truss a	/ of others. CASE(S) section are noted as from	on, loads ap	oplied to the						
REACTIONS	(lb/size) 4=-188/ M Max Horiz 5=100 (LC Max Uplift 4=-261 (L Max Grav 4=159 (LC (lb) - Maximum Com	C 21), 5=-343 (LC 4 C 24), 5=969 (LC 1)	-3-8 1)	Plate Increa Uniform Lo Vert: 1-2	of Live (balance ase=1.15 ads (lb/ft) =-70, 2-3=-70, 4		Increase=1.	.15,					
TOP CHORD	Tension 2-5=-911/344, 1-2=- 3-4=-120/242				ed Loads (lb) 250, 6=42 (F), 8	8=25 (F), 9=	=4 (B)						
BOT CHORD	4-5=-63/44												
Vasd=91n II; Exp C; cantilever right expo 2) This truss chord live 3) * This trus	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed used; Lumber DOL=1.6 has been designed foi load nonconcurrent wi ss has been designed f ttom chord in all areas	DL=6.0psf; h=25ff; (welope) exterior zor ; end vertical left an 0 plate grip DOL=1. r a 10.0 psf bottom th any other live loa or a live load of 20.0	ne; d 60 ds.									STATE OF J	

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 5 and 261 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL ENGINE July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J2	Jack-Open	2	1	Job Reference (optional)	153060742

-1-10-8 1-10-8

Wheeler Lumber, Waverly, KS - 66871,

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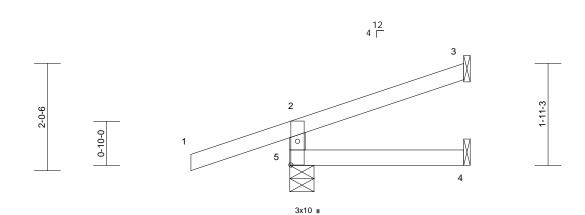
3-3-9

3-3-9

3-3-9



Page: 1



Loading	(nsf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl
Plate Offsets (X, Y):	: [5:0-5-6,0-1-8]							
Scale = 1:21.8								

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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)	-0.01	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: 10 lb	FT = 10%
LUMBER			LOAD CASE(S)	Standard								

LUMBER			LOAD
TOP CHORD	2x4 SPF	No.2	
BOT CHORD	2x4 SPF	No.2	
WEBS	2x4 SPF	No.2	
BRACING			
TOP CHORD		I wood sheathing directly applied or	
DOTOLODD		purlins, except end verticals.	
BOT CHORD	Rigid ceil bracing.	ing directly applied or 10-0-0 oc	
REACTIONS	(lb/size)	3=73/ Mechanical, 4=20/	
		Mechanical, 5=327/0-5-8	
	Max Horiz	5=69 (LC 4)	
	Max Uplift	3=-40 (LC 8), 5=-123 (LC 4)	
	Max Grav	3=73 (LC 1), 4=54 (LC 3), 5=327 (LC 1)	
FORCES	(lb) - Max	imum Compression/Maximum	
TORCES	Tension		
TOP CHORD	2-5=-285	/142, 1-2=0/45, 2-3=-45/16	
BOT CHORD	4-5=0/0		

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 123 lb uplift at joint 5 and 40 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



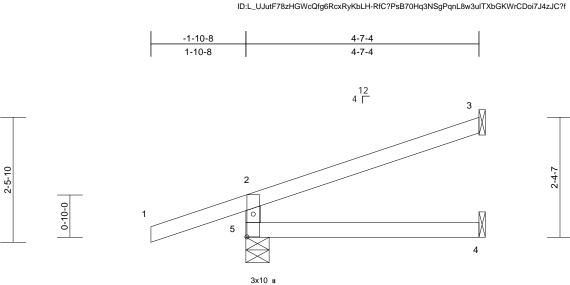
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J3	Jack-Open	7	1	Job Reference (optional)	153060743

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:40

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:22.8	
Plate Offsets (X, Y):	[5:0-5-6,0-1-8]

	·										
(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	240		
0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 lb	FT = 10%
			Stondard								
•	25.0 10.0 0.0*	25.0 Plate Grip DOL 10.0 Lumber DOL 0.0* Rep Stress Incr	25.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0* Rep Stress Incr YES 10.0 Code IRC2018/TPI2014	25.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0* Rep Stress Incr YES WB	25.0 Plate Grip DOL 1.15 TC 0.28 10.0 Lumber DOL 1.15 BC 0.16 0.0* Rep Stress Incr YES WB 0.00 10.0 Code IRC2018/TPI2014 Matrix-R	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL)	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.02 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.03 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.02 4-5 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.03 4-5 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.02 4-5 >999 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.03 4-5 >999 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.02 4.5 >999 360 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.03 4.5 >999 240 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999 240	25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.02 4-5 >999 360 MT20 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.03 4-5 >999 240 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 14 lb

4-7-4

LUMBER			LOAD			
TOP CHORD	2x4 SPF I	No.2				
BOT CHORD	2x4 SPF I	No.2				
WEBS	2x4 SPF I	No.2				
BRACING						
TOP CHORD	Structura	wood sheathing directly applied or				
	4-7-4 oc p	ourlins, except end verticals.				
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc						
	bracing.					
REACTIONS	(lb/size)	3=123/ Mechanical, 4=42/				
		Mechanical, 5=372/0-5-8				
	Max Horiz	5=87 (LC 4)				
	Max Uplift	3=-61 (LC 8), 5=-123 (LC 4)				
	Max Grav	3=123 (LC 1), 4=80 (LC 3), 5=372				
		(LC 1)				
FORCES	(lb) - Max	imum Compression/Maximum				
	Tension					
TOP CHORD	2-5=-326/	156. 1-2=0/45. 2-3=-61/29				

TOP CHORD 2-5=-326/156, 1-2=0/45, 2-3=-61/29 BOT CHORD 4-5=0/0

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This terms has been desired for 400 crif been desired.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 61 lb uplift at joint 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.



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July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J4	Jack-Open	4	1	Job Reference (optional)	153060744

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:41 ID:hxICxaJGzVvZdNIdSf1neVyKbLC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

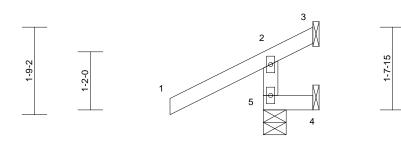
-1-10-8	0-11-15
1-10-8	0-11-15



2x4 🛛

2x4 II

0-11-15



Scale =	1:23.1
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Scale = 1:23.1											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.2 BC 0.0 WB 0.0 Matrix-R 0.0	5 Vert(CT)	in 0.00 0.00 -0.01 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 10%
LUMBER		•	LOAD CASE(S)	Standard	-						
TOP CHORD BOT CHORD WEBS				Standard							
BRACING											
TOP CHORD	 Structural wood she 0-11-15 oc purlins, 										
BOT CHORD											
REACTIONS		lechanical, 4=-28/									
	Mechanic Max Horiz 5=50 (LC	al, 5=350/0-5-8 5)									
	Max Uplift 3=-106 (L		5=-75								
	(LC 8) Max Grav 3=24 (LC	4) 4-7 (LC 6) 5-26	50								
	(LC 1)	4), 4=7 (LC 0), 3=3	0								
FORCES	(lb) - Maximum Com	pression/Maximum									
TOP CHORD	Tension 2-5=-306/90, 1-2=0/	63. 2-3=-73/10									
BOT CHORD											
NOTES											
	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC		Cat								
	Enclosed; MWFRS (er										(The
	r left and right exposed									OF	MIG
	osed; Lumber DOL=1.6 s has been designed for		00							TATE OF	NOSCIE STREET
chord live	e load nonconcurrent wi	ith any other live loa							B	SCOT	TM X
	ss has been designed f httom chord in all areas		psf						a	SEV	
	all by 2-00-00 wide will		m						Ro		0 12
	d any other members.							_	N	att	Sente
	girder(s) for truss to tru nechanical connection (0						33	NUM	
	late capable of withstar								N	O PE-2001	018807
	plift at joint 4 and 106 ll								Q	1501	158

5, 28 lb uplift at joint 4 and 106 lb uplift at joint 3. This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1



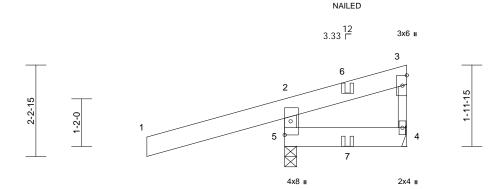
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J5	Diagonal Hip Girder	1	1	Job Reference (optional)	153060745

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:41 ID:Y4S9RafKWpDAH1ZjGh?1zByKbIB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Page: 1



NAILED

2-11-15

Scale =	1:28.3
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		· · · · · · · · · · · · · · · · · · ·			1								
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.65	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	NO		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 24 lb	FT = 10%
	2x6 SP DSS 2x6 SP DSS 2x4 SPF No.2 *Exce Structural wood she 4-3-0 oc purlins, exi Rigid ceiling directly bracing. (lb/size) 4=-362/ M Max Horiz 5=96 (LC Max Uplift 4=-363 (L	, athing directly applie cept end verticals, applied or 6-0-0 oc lechanical, 5=1095/(7)	ed or 9) LC 1) 0-3-8	provided suf lb down and design/selec responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Lo	CASE(S) section are noted as from Standard of Live (balanced ase=1.15	: concentra -8 on top c nection de n, loads ap t (F) or ba d): Lumber	ted load(s) 2 chord. The vice(s) is the oplied to the ck (B).	face					
	Max Grav 4=172 (LC				ed Loads (lb)								
FORCES	(lb) - Maximum Com Tension	pression/Maximum	-	Vert: 1=-	250, 7=10 (B)								
TOP CHORD	2-5=-1015/372, 1-2= 3-4=-135/326	-11/133, 2-3=-83/29),										
BOT CHORD	4-5=-72/39												
Vasd=91m II; Exp C; I cantilever	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	DL=6.0psf; h=25ft; 0 velope) exterior zor ; end vertical left and	ne; d										

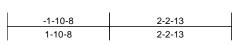
- right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 5 and 363 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.





Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J6	Jack-Open	1	1	Job Reference (optional)	153060746

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2-2-13

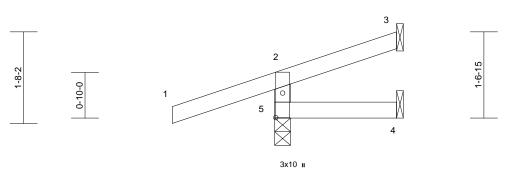


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

						-						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%
								-		-		
LUMBER				designed in accord								
TOP CHORD	2x4 SPF No.2			Residential Code			nd					
BOT CHORD			R802.10.2 a	nd referenced stan	Idard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	2-2-13 oc purlins, e	xcept end verticals.										
BOT CHORD		applied or 10-0-0 o	С									
	bracing.											
REACTIONS	(lb/size) 3=21/ Me	chanical, 4=-1/										
	Mechanic	al, 5=303/0-3-8										
	Max Horiz 5=54 (LC	4)										
	Max Uplift 3=-19 (LC	8), 4=-1 (LC 1), 5=	-130									
	(LC 4)											
	Max Grav 3=21 (LC	1), 4=32 (LC 3), 5=3	303									
	(LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	2-5=-262/137, 1-2=0)/45, 2-3=-38/2										
BOT CHORD	4-5=0/0											
NOTES												
	CE 7-16; Vult=115mph	(3-second gust)										
	mph; TCDL=6.0psf; BC		Cat.								200	100
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zor	ne;								OF	MIG
cantilever	left and right exposed	; end vertical left an	d								TATE OF	ISS W
	osed; Lumber DOL=1.6		60							6	AN'	N.S.
	s has been designed for									R	SCOT	TM. VEY
	load nonconcurrent wi									8	/ SEV	IER \ Y
	ss has been designed f)psf							10		
	ttom chord in all areas										tts	· Xaller
	all by 2-00-00 wide will	in between the botto	וווכ						-	R-	your no	- server
	d any other members. girder(s) for truss to tru	an connections								1	NUM PE-2001	
	nechanical connection (0							N.	O PE-2001	018807
	late capable of withstar									V	The last	158
	b uplift at joint 3 and 2										SSIONA	ENUE
joint 0, 10											W UNA	

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



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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J7	Jack-Open	9	1	Job Reference (optional)	153060747

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:41 ID:xIV9EXfuqcupRRIySTXoevyKbJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-10-8 3-7-4 1-10-8 3-7-4 12 4 Г 3 2 2-0-7 0-10-0 5 4

3x10 u

3-7-4

Scale = 1:22.1		
Plate Offsets (X, Y):	[5:0-5-6.0-1-8]	

2-1-10

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.09	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			LOAD CASE(S)	Standard
TOP CHORD	2x4 SPF	No.2		
BOT CHORD	2x4 SPF	No.2		
WEBS	2x4 SPF	No.2		
BRACING				
TOP CHORD		wood sheathing directly applied or		
		ourlins, except end verticals.		
BOT CHORD	0	ing directly applied or 10-0-0 oc		
	bracing.			
REACTIONS	(lb/size)	3=85/ Mechanical, 4=26/		
		Mechanical, 5=336/0-3-8		
	Max Horiz	5=73 (LC 4)		
	Max Uplift	3=-45 (LC 8), 5=-122 (LC 4)		
	Max Grav	3=85 (LC 1), 4=60 (LC 3), 5=336		
		(LC 1)		
FORCES	(lb) - Max	imum Compression/Maximum		
	Tension			
TOP CHORD	2-5=-294	/145, 1-2=0/45, 2-3=-49/19		
BOT CHORD	4-5=0/0			

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 122 lb uplift at joint 5 and 45 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J8	Diagonal Hip Girder	1	1	Job Reference (optional)	153060748

4-1-3

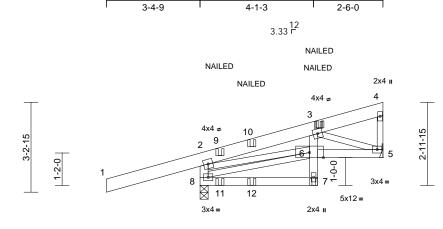
-3-4-9

Wheeler Lumber, Waverly, KS - 66871,

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6-7-3

Page: 1



NAILED NAILED

NAILED

4-2-15 6-7-3 4-2-15 2 - 4 - 4

Scale = 1:41.6

		1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.65	Vert(LL)	0.01	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.07	Vert(CT)	0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P		Wind(LL)	-0.02	7	>999	240	Weight: 43 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x6 SP 2400F 2.0E 2x4 SPF 2400F 2.0E 2100F 1.8E 2x3 SPF No.2 *Exce	·	7)	International R802.10.2 a "NAILED" in (0.148"x3.25	designed in acco Residential Cod nd referenced st dicates 3-10d (0.) toe-nails per N	le sections andard AN .148"x3") c NDS guidli	R502.11.1 a ISI/TPI 1. Ir 2-12d nes.	and					
TOP CHORD	Structural wood she 7-10-4 oc purlins, e	0 7 11	ed or	provided suf	ficient to support 47 lb up at -2-1	concentra -8 on top c	, ited load(s) 2 hord. The						
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc	0)	responsibility									
	(lb/size) 5=55/ Mer Max Horiz 8=112 (LC Max Uplift 5=-51 (LC Max Grav 5=145 (LC	20), 8=-276 (LC 4)		of the truss a DAD CASE(S) Dead + Roo	of Live (balanced	t (F) or ba	ck (B).						
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Plate Increa Uniform Lo	ads (lb/ft)	0 00 5							
TOP CHORD	2-8=-887/310, 1-2=- 3-4=-27/48, 4-5=-19	,	6,	Concentrat	=-70, 2-4=-70, 7 ed Loads (lb)	,							
BOT CHORD	7-8=-50/42, 6-7=0/68 5-6=-584/464	8, 3-6=0/111,		Vert: 1=- 12=25 (F	250, 7=9 (F), 3= ⁻)	-о (В), 9=4	∪ (B), 10=42	(г),					
WEBS	6-8=-130/52, 2-6=-5	30/503, 3-5=-479/62	26										
Vasd=91m	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er	DL=6.0psf; h=25ft; 0										Contraction of the	all

d; MWFRS (enve 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 3-06-00 tall by 2-00-00 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 276 lb uplift at joint 8 and 51 lb uplift at joint 5.

OF MISSO SCOTT M. SEVIER PE-2001018807 O SSIONAL E

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	Jə	Jack-Open	1	1	Job Reference (optional)	153060749

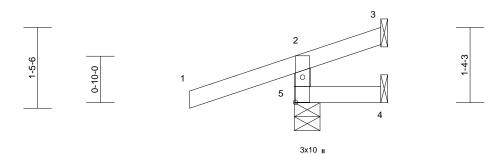
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Page: 1





1-6-9



Scale = 1:2	0.6
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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 (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		0.08	Vert(CT)	0.00	4-5	>999	240	-	
BCLL	0.0*	Rep Stress Incr	YES	-	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
	10.0	0000		Matrix IX		Mind(EE)	0.00	10	2000	210	Wolgin: 0 15	11 - 10/0
LUMBER			6) This truss is	designed in accorda	nce w	ith the 2018						
TOP CHORD	2x4 SPF No.2			Residential Code se			nd					
BOT CHORD	2x4 SPF No.2		R802.10.2 a	nd referenced standa	ard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S)	Standard								
BRACING				etandara								
TOP CHORD	Structural wood she	athing directly applie	ad or									
	1-6-9 oc purlins, ex											
BOT CHORD	Rigid ceiling directly											
BOT ONORD	bracing.											
REACTIONS	0	echanical, 4=-16/										
REACTIONS		al, 5=307/0-5-8										
	Max Horiz 5=46 (LC											
	Max Uplift 3=-24 (LC	,	144									
	(LC 4)	, 1), 4=-10 (LC 1), 5=										
	Max Grav 3=17 (LC	4) 4-18 (I C 4) 5-3	807									
	(LC 1)	+), +=10 (LO +), 0=c										
FORCES	(lb) - Maximum Com	proceion/Maximum										
FUNCES	Tension	pression/maximum										
TOP CHORD	2-5=-263/143, 1-2=0	1/45 2-3-38/5										
BOT CHORD	4-5=0/0	/43, 2-330/3										
	4-5-0/0											
NOTES		(0))										
	CE 7-16; Vult=115mph		2-1									
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er										TATE OF	all
	left and right exposed										F. OF	MISC
	sed; Lumber DOL=1.6									1	750	
	has been designed for		50							R	S SCOT	N Contraction
	load nonconcurrent wi		de							R	S SCOI	
	s has been designed f									4	/ SEV	
	tom chord in all areas		por							NA.	•	
	Il by 2-00-00 wide will		m							WY I	the.	
	any other members.									XX	NUM	Renter
	irder(s) for truss to tru	ss connections.								17	PE-2001	
	echanical connection (D							N	11-2001	51000/28
	ate capable of withstar									Y	100	IN B
joint 5, 16	Ib uplift at joint 4 and 2	24 lb uplift at joint 3.								0	UNIONIA	TENA
											C'SSIONA	

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



July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J10	Jack-Open	2	1	Job Reference (optional)	153060750

-1-10-8

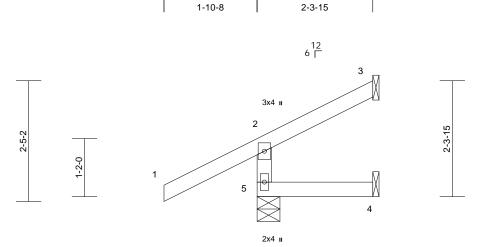
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:42 ID:w5AS0ToQHh_HT_RhVIf?V0yKbE7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-3-15

2-3-15





Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	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)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 2-3-15 oc purlins, e	xcept end verticals.										
	bracing.		-									
REACTIONS		2 8), 5=-52 (LC 8)	=304									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD		63, 2-3=-55/6										
BOT CHORD	4-5=0/0											
NOTES												
Vasd=91n II; Exp C; cantilever right expo 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to g	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed used; Lumber DOL=1.6 has been designed foi load nonconcurrent wi s has been designed f ttom chord in all areas all by 2-00-00 wide will d any other members. jirder(s) for truss to tru techanical connection (DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an 0 plate grip DOL=1.4 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections.	ne; d 60 ds. opsf om								tt	Service
bearing pl 5 and 32 l	late capable of withstar lb uplift at joint 3.	nding 52 lb uplift at jo								A.	PE-200	

 This truss 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) Standard

July 14,2022



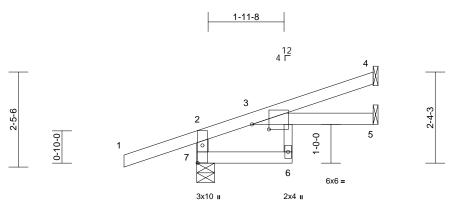
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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J11	Jack-Open	1	1	Job Reference (optional)	153060751

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:43 ID:Iz?lijfWtJbrfI5aLUzQYiyKbEI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







	2-5-8	
1-10-5		4-6-9
1-10-5		2-1-1
	0-7-3	

Scale = 1:29.7

Plate Offsets (X, Y): [3:0-5-4,0-1-9], [7:0-5-6,0-1-8]

·`												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.28	Vert(LL)	-0.03	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.06	6	>818	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.03	6	>999	240	Weight: 15 lb	FT = 10%
LUMBER			6) This truss is	s designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2		, Internationa	al Residential Coo	de sections	R502.11.1 a	ind					
BOT CHORD	2x4 SPF No.2		R802.10.2	and referenced st	tandard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2 *Exce	pt* 6-3:2x3 SPF No	.2 LOAD CASE(S) Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	4-6-9 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc										
	bracing.											
REACTIONS		echanical, 5=57/										
		al, 7=381/0-5-8										
	Max Horiz 7=86 (LC	,										
	Max Uplift 4=-46 (LC	,, , ,	004									
	Max Grav 4=113 (LC (LC 1)	5 T), 5=80 (LC 3), 7=	=381									
FORCES	()											
FURCES	(lb) - Maximum Corr Tension	pression/maximum										
TOP CHORD	2-7=-350/129, 1-2=0	/45 2-3-57/11										
	3-4=-32/29	/43, 2-337/11,										
BOT CHORD	6-7=-44/0, 3-5=0/0											
WEBS	3-6=0/63											
NOTES												
	CE 7-16; Vult=115mph	(3-second gust)										Th
	nph; TCDL=6.0psf; BC		Cat.								TE OF I	MIG
	Enclosed; MWFRS (er										ACEUTI	NIS'S
	left and right exposed									4		N.S.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Refer to girder(s) for truss to truss connections. 4)
- 5)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 7 and 46 lb uplift at joint 4.



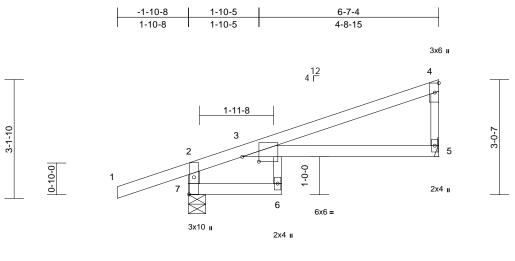
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J12	Jack-Closed	6	1	Job Reference (optional)	153060752

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Page: 1





Scale = 1:30.4

Plate Offsets (X, Y): [3:0-5-4,0-1-9], [7:0-5-6,0-1-8]

				-								
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.10	(100)	>758	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.21	6	>358	240		10//111
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.10	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.09	6	>862	240	Weight: 21 lb	FT = 10%
					-	()					0	
LUMBER			LOAD CASE(S)	Standard								
TOP CHORD												
BOT CHORD			•									
WEBS	2x3 SPF No.2 *Exce	ept^ 7-2:2x4 SPF No	0.2									
BRACING												
TOP CHORD			ed or									
	6-0-0 oc purlins, ex Rigid ceiling directly											
BOT CHORD	bracing.	applied of 6-0-0 oc										
REACTIONS		echanical, 7=464/0-	5 9									
REACTIONS	Max Horiz 7=87 (LC		-0-0									
	Max Uplift 5=-16 (LC											
FORCES	(lb) - Maximum Corr	, ,										
TOROLO	Tension	ipression/maximum										
TOP CHORD		45, 2-3=-104/0,										
	3-4=-120/5, 4-5=-18											
BOT CHORD	6-7=-46/0, 3-5=-12/8	80										
WEBS	3-6=0/67											
NOTES												
	CE 7-16; Vult=115mph											
	nph; TCDL=6.0psf; BC											
	Enclosed; MWFRS (er											
	exposed ; end vertical OL=1.60 plate grip DC		ed;								COOL	Jan
	has been designed fo										B & OF	MISSO
	load nonconcurrent wi		de							6	7 22	NO N
	ss has been designed f									8	SCOT	TM XPN
	ttom chord in all areas		0001							8	SEV	
	all by 2-00-00 wide will		om							8.		
chord and	any other members.									No	حسب ا	
	irder(s) for truss to trus									XX.	AD	Server
	nechanical connection								-	VI -	NUM	
	late capable of withstar	nding 68 lb uplift at j	oint							N	PE-2001	018807
	lb uplift at joint 5.									V V	- Ch	158
	nal Residential Code s		bnd								Sister	ENUS
	2 and referenced stand										ESSIONA	LUIS
											Jul	y 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J13	Jack-Closed	1	1	Job Reference (optional)	153060753

6-7-4

12 4 Г

Wheeler Lumber, Waverly, KS - 66871,

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3-0-7 0-10-0 3x10 6-7-4



3x6 II

3

3x4 II

2

Scale =	1:25.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.07	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.15	3-4	>526	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)	0.02	3-4	>999	240	Weight: 18 lb	FT = 10%

LUMBER

LOWIDER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD		l wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	3=288/ Mechanical, 4=288/0-5-8
	Max Horiz	4=89 (LC 5)
	Max Uplift	3=-21 (LC 8), 4=-9 (LC 4)
FORCES	(lb) - Max	imum Compression/Maximum

Tension TOP CHORD 1-4=-238/52, 1-2=-137/13, 2-3=-209/54 BOT CHORD 3-4=-20/60

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
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 4 and 21 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

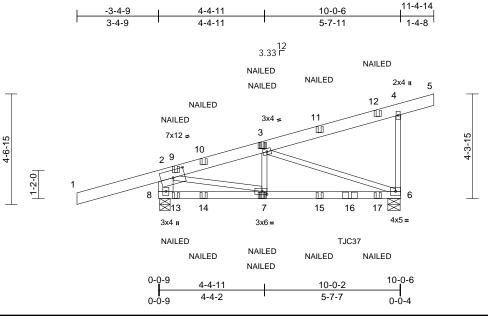
LOAD CASE(S) Standard





Job	Truss Truss Type		Qty	Ply	Boyer Res Roof		
210568	J14	Diagonal Hip Girder	1	1	Job Reference (optional)	153060754	

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Scale = 1:47.7

Plate Offsets (X, Y): [2:0-5-14,0-3-12], [7:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.69	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.91	Vert(CT)	-0.18	6-7	>649	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.43	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.08	6-7	>999	240	Weight: 61 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD	2x6 SP DSS 2x4 SPF No.2		6	equivalent at	n Strong-Tie TJC3 t 9-2-3 from the lef of bottom chord, s	t end to	connect truss	· · /					
WEBS	2x3 SPF No.2 *Exce	pt* 8-2:2x8 SP DSS		left, sloping (0.0 deg. down.		Ū						
BRACING			7		oles where hanger								
TOP CHORD	Structural wood she	athing directly applie	dor ⁸		dicates 2-12d (0.1-	48"x3.25	") toe-nails p	er					
BOT CHORD	6-0-0 oc purlins, except end verticals.			provided suf	other connection	oncentra	ated load(s) 2	260					
REACTIONS	(lb/size) 6=681/0-6	6-2, 8=1048/0-5-3			47 lb up at -2-1-8 tion of such conne								
	Max Horiz 8=187 (LC	C 5)		responsibility		cuonue	vice(s) is the						
	Max Uplift 6=-246 (L	C 5), 8=-314 (LC 4)	1		CASE(S) section.	loads a	onlied to the	face					
FORCES	(lb) - Maximum Com	pression/Maximum			are noted as front			1400					
	Tension		L	OAD CASE(S)		()	- ()						
TOP CHORD	2-8=-1064/324, 1-2=	,	07	1) Dead + Roof Live (balanced): Lumber Increase=1.15,									
	3-4=-123/41, 4-5=-28	,		Plate Increa				,					
BOT CHORD	7-8=-1086/379, 6-7=			Uniform Lo	ads (lb/ft)								
WEBS	2-7=-340/1249, 3-7=	-101/171, 3-6=-503/	220	Vert: 1-2	=-70, 2-4=-70, 4-5	=-70, 6-	8=-20						
NOTES				Concentrated Loads (Ib)									
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 			e; I	10=42 (E	250, 7=4 (F=-5, B 3), 11=-3 (B), 12=- 273 (F), 17=-28 (E	53 (B), 1						STATE OF J	
2) This truss has been designed for a 10.0 psf bottom												ALEUT	N-SSC
chord live load nonconcurrent with any other live loads.											6	7 AV	NSY
 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom 												S SCOT SEV	T M.
	any other members.	by others) of truce to									-40	1 4 mm	- 2> 1.~~
	echanical connection (ate capable of withstar		,									det NUN	- entry

- 4) Provide mechanical connection (by others) of itss to bearing plate capable of withstanding 314 lb uplift at joint 8 and 246 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

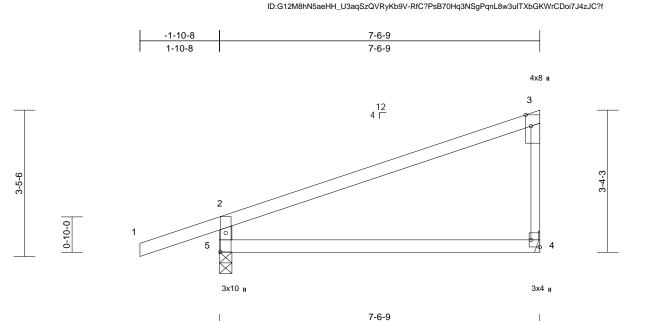


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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J15	Jack-Closed	1	1	Job Reference (optional)	153060755

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Wed. Jul 13 07:57:44

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:27.1	
Plate Offsets (X, Y):	[3:0-3-3,Edge], [4:Edge,0-2-8], [5:0-5-6,0-1-8]

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.70	DEFL Vert(LL)	in -0.11	(loc) 4-5	l/defl >781	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.24	4-5	>372	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)	0.04	4-5	>999	240	Weight: 23 lb	FT = 10%

- 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

 BRACING
 TOP CHORD

 Structural wood sheathing directly applied or

	6-0-0 oc p	ourlins, except end verticals.					
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc						
	bracing.						
REACTIONS	(lb/size)	4=309/ Mechanical, 5=489/0-3-8					
	Max Horiz	5=145 (LC 5)					
	Max Uplift	4=-67 (LC 8), 5=-147 (LC 4)					
FORCES (Ib) - Maximum Compression/Maximum							
	Tension						

TOP CHORD 2-5=-432/200, 1-2=0/45, 2-3=-162/15, 3-4=-221/100 BOT CHORD 4-5=-35/61

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 5 and 67 lb uplift at joint 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.

LOAD CASE(S) Standard



Page: 1

Kitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

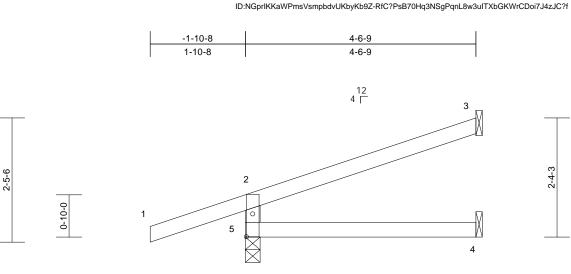
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J16	Jack-Open	1	1	Job Reference (optional)	153060756

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:44

Page: 1

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017

Wheeler Lumber, Waverly, KS - 66871,



3x10 u

Plate Offsets (X, Y): [5:0-5-6,0-1-8]			
Scale = 1:22.7			
		4-6-9	

 LUMBER LOAD CASE(S) Standard LOAD CASE(S) Standard COP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied or 4x6-90 op utinic except end verticals. BOT CHORD Rigid celling directly applied or 10-0-00 braining. REACTIONS (lobics) 3-121/ Mechanical, 4-21/ Mechanical, 5-2370-00-3-8 Max Horiz 5-68 (LC 4) Max Carv 3-121 (LC 1), 4-79 (LC 3), 5-370 (LC 1) Max Grav 3-121 (LC 1), 4-79 (LC 3), 5-370 (LC 1) FORCES (lo) - Maximum Compression/Maximum Transion TOP CHORD 2-5-324/156, 1-2-0/45, 2-3=-60/29 BOT CHORD 4-5-00 NOTES 1) Wind: ASCE 7-16; Vul-115mph (3-second gust) Vasi-94-91 (mile to 100 pot bottom chord in all reases where a rectangle 3-36-00 all by 2-00-00 Weill fit between the bottom chord and any other members. a) Provide meass where a rectangle 3-36-00 Wints that between the bottom chord and any other members. a) Relet to girder(5) for truss to truss connections. b) Provide metaninal Residential Coefficient (b) that and right exposed i curve (b) truss to baseing plate capable of Wintstanding 123 bu glift at joint 3. c) This truss has been designed for a two field and rectangle 3-36-00 all by 2-000 Wide will fit between the bottom chord and any other members. c) Provide metaninal connections. a) Provide metaninal connections the bottom chord in all areas where a rectangle 3-36-00 all by 2-200 Wide sections ROCE 11.1 and RR02.10.2 and referenced standard ANSUTP1. 	Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.28 0.16 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.03 0.01 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 10%
 FORCES (b) - Maximum Compression/Maximum Tension Tension ToP CHORD 2-55-32/156, 1-2=0/45, 2-3=-60/29 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0pst; B-CDL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 pst bottom chord live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 4) Refer to grider(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 60 lb uplift at joint 3. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.01.2. and referenced standiad AMS/TPL 1. 	TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood shea 4-6-9 oc purlins, ext BOT CHORD Rigid ceiling directly bracing. REACTIONS (lb/size) 3=121/Ma Mechanic Max Horiz 5=86 (LC Max Uplift 3=-60 (LC Max Grav 3=121 (LC	cept end verticals. applied or 10-0-0 oc echanical, 4=41/ al, 5=370/0-3-8 4) : 8), 5=-123 (LC 4)	d or	Standard								
	Tension TOP CHORD 2-5=-324/156, 1-2=0 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BC II; Exp C; Enclosed; MWFRS (en cantilever left and right exposed right exposed; Lumber DOL=1.6i 2) This truss has been designed for chord live load nonconcurrent wi 3) * This truss has been designed for on the bottom chord in all areas y 3-06-00 tall by 2-00-00 wide will chord and any other members. 4) Refer to girder(s) for truss to trus 5) Provide mechanical connection (bearing plate capable of withstar joint 5 and 60 lb uplift at joint 3. 6) This truss is designed in accorda International Residential Code set	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. (by others) of truss to dding 123 lb uplift at ance with the 2018 ections R502.11.1 ar	e; d 30 ds. psf m						1		SCOT SEV SEV NOM PE-2001	T M. HER BER 018807

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J17	Jack-Open	1	1	Job Reference (optional)	153060757

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Page: 1





1-6-9

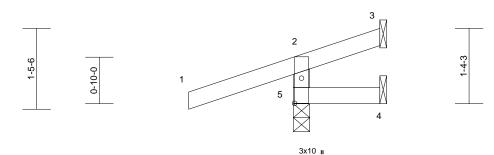


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

		1	-									
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2			designed in accorda Residential Code s			nd					
BOT CHORD			R802.10.2 a	nd referenced stand	lard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2		LOAD CASE(S)	Standard								
BRACING			()									
TOP CHORD	Structural wood she 1-6-9 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly bracing.		c									
REACTIONS		echanical, 4=-16/										
		al, 5=307/0-3-8										
	Max Horiz 5=46 (LC Max Uplift 3=-24 (LC	,	111									
	(LC 4)	5 T), 4=-10 (LC T), 5	=-144									
	Max Grav 3=17 (LC	4), 4=18 (LC 4), 5=3	307									
	(LC 1)	<i>// 、 //</i>										
FORCES	(lb) - Maximum Com	npression/Maximum										
	Tension											
TOP CHORD	2-5=-263/143, 1-2=0	0/45, 2-3=-38/5										
BOT CHORD	4-5=0/0											
NOTES		(*)										
	CE 7-16; Vult=115mph		Cat								~	
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er										TATE OF	and
	left and right exposed										F. OF	MISS
	sed; Lumber DOL=1.6									4	- N	A S
	has been designed fo									A	SCOT	TM. CR
	load nonconcurrent w									a-	SEV	
	s has been designed f)psf							14		1 * 8
	tom chord in all areas									in O	السب ا	0
	all by 2-00-00 wide will any other members.		וווכ							NA.	Lall.	and Ment
	irder(s) for truss to tru	iss connections								W/	DE 2001	019907
	echanical connection		0							N	PE-2001	01000/201
bearing pla	ate capable of withsta	nding 144 lb uplift at								Y	1800	IN B
joint 5, 16	Ib uplift at joint 4 and 2	24 lb uplift at joint 3.									ESSIONA	LENA
											WANA	

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



July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J18	Jack-Open	1	1	Job Reference (optional)	153060758

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Page: 1

Wheeler Lumber, Waverly, KS - 66871,

-1-10-8 4-11-15 1-10-8 4-11-15 3 12 6 ┌ 3-7-15 3-9-2 2x4 🛛 2 P 1-2-0 K 0 5 \mathbb{X} 4

4-11-15

3x4 II

Scale = 1:26

Scale = 1:26												
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.29 0.20 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.05 -0.03	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 15 lb	FT = 10%
BOT CHORD 2x4 SF WEBS 2x4 SF BRACING TOP CHORD Struct 4-11-1 BOT CHORD Rigid o bracin	5 oc purlins, ceiling directly g.	eathing directly applie except end verticals v applied or 10-0-0 od										
Max Up	Mechanic riz 5=120 (Lu lift 3=-85 (LC	lechanical, 4=48/ cal, 5=387/0-3-8 C 8) C 8), 5=-51 (LC 8) C 1), 4=88 (LC 3), 5=	-387									
()		npression/Maximum										
Tensic TOP CHORD 2-5=-3		/63, 2-3=-98/46										
BOT CHORD 4-5=0/	,	03, 2-3=-90/40										
NOTES	0											
 Wind: ASCE 7-16; Vasd=91mph; TCE II; Exp C; Enclosed cantilever left and right exposed; Lun 	DL=6.0psf; BC d; MWFRS (er right exposed nber DOL=1.6	CDL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left and 60 plate grip DOL=1.6	ne; d								THE OF	
2) This truss has bee			40								FEOT	MISS S
 This truss has be on the bottom chore 3-06-00 tall by 2-00 chord and any other 	en designed f rd in all areas 0-00 wide will er members.	fit between the botto)psf								SCOT SEV	TM. YEY
bearing plate capa 5 and 85 lb uplift a	al connection ble of withsta t joint 3.	(by others) of truss to nding 51 lb uplift at jo							-		PE-2001	018807
6) This truss is design International Resid R802.10.2 and refe	lential Code s erenced stand	ections R502.11.1 a	nd							Y	PE-2001	IL ENGLAS

LOAD CASE(S) Standard

SE.

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



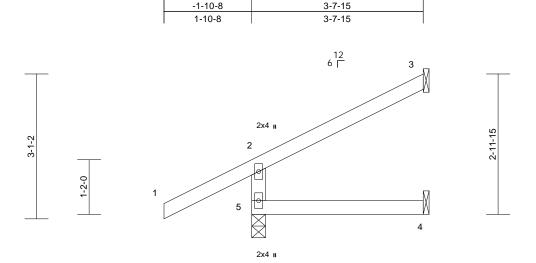
July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J19	Jack-Open	1	1	Job Reference (optional)	153060759

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3-7-15





Scale = 1.24.0												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 3-7-15 oc purlins, e Rigid ceiling directly bracing. (Ib/size) 3=87/ Me	athing directly appli xcept end verticals.	ed or									
	Max Horiz 5=93 (LC Max Uplift 3=-60 (LC Max Grav 3=87 (LC (LC 1)	8) 8), 5=-50 (LC 8)	338									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	,	63, 2-3=-74/28										
BOT CHORD	4-5=0/0											
NOTES												
Vasd=91r II; Exp C; cantilever	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an	ne; Id								COLOR I	and
2) This truss	has been designed fo load nonconcurrent wi	r a 10.0 psf bottom									TATEOF	MISSOL
on the bot 3-06-00 ta	ss has been designed f ttom chord in all areas all by 2-00-00 wide will	where a rectangle									SCOT SEV	I IVI.
	l any other members. jirder(s) for truss to tru	ss connections								0 5		
	nechanical connection		0							12 -	llast	
bearing pl	late capable of withstai b uplift at joint 3.									N.	PE-2001	018807
6) This truss Internation	is designed in accordanal Residential Code s and referenced stand	ections R502.11.1 a	nd							Ŷ	FESSIONA	L ENGILE
LOAD CASE	(S) Standard										un	000

LOAD CASE(S) Standard

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J20	Diagonal Hip Girder	2	1	Job Reference (optional)	153060760

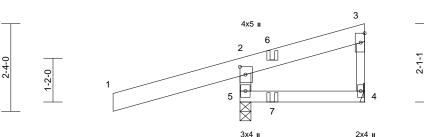
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12 3.33 ⊏

NAILED

3x6 "



NAILED

3-3-13

Scale = 1:30.7

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

		-										-	
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.65	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.10	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	IRC20	18/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 22 lb	FT = 10%
LUMBER			7) "NAILED" in	dicates 2-12d (0.	.148"x3.25	") toe-nails p	er					
TOP CHORD	2x6 SP DSS			NDS guidlin			, ,						
BOT CHORD	2x4 SPF 2400F 2.0E		8	B) Hanger(s) o	r other connectio	n device(s) shall be						
WEBS	2x4 SPF No.2 *Exce	pt* 3-4:2x3 SPF No	.2		fficient to support			260					
BRACING					47 lb up at -2-1								
TOP CHORD	Structural wood she	athing directly applie	ed or	0	ction of such con	nection de	vice(s) is the						
	4-6-14 oc purlins, e	xcept end verticals.		responsibilit									
BOT CHORD		applied or 6-0-0 oc	ç		CASE(S) sectio are noted as fron			face					
	bracing.			OAD CASE(S)			ы (В).						
REACTIONS	· · · ·	lechanical, 5=1035/	0-3-0		of Live (balanced	d). Lumbor	Increase-1	15					
	Max Horiz 5=104 (LC			Plate Incre		a). Lumber	increase=1.	15,					
	Max Uplift 4=-328 (L	<i>,,</i>	,	Uniform Lo									
	Max Grav 4=129 (LC	<i>,,</i>	<i>'</i>		2=-70, 2-3=-70, 4	-5=-20							
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Concentra	ted Loads (lb)								
TOP CHORD	2-5=-964/384, 1-2=- 3-4=-98/313	11/133, 2-3=-84/24,		Vert: 1=	-250, 6=38 (F)								
BOT CHORD													
NOTES													
	CE 7-16; Vult=115mph	(3-second gust)											
	mph; TCDL=6.0psf; BC		Cat.										
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zor	ne;										
cantileve	r left and right exposed	; end vertical left an	d									000	100
right expo	osed; Lumber DOL=1.6	0 plate grip DOL=1.	60									8 OF	MICON
	s has been designed fo										1	STATE OF	-050 M
	e load nonconcurrent wi										A	NY and	New
	ss has been designed f)pst								H	SCOT	TM. YSY
	ottom chord in all areas all by 2-00-00 wide will										H.	/ SEV	
	d any other members.	in between the bollo								۲ (get	1	
choru and	u any other members.											de	

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

- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 370 lb uplift at joint 5 and 328 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 6) R802.10.2 and referenced standard ANSI/TPI 1.

NUMBER PE-2001018807 0 SSIONAL E July 14,2022

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Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J22	Jack-Open	2	1	Job Reference (optional)	153060761

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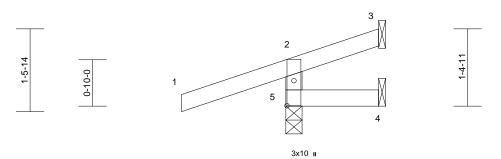


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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/TPI201	4 Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%
			6) This tru	uss is designed in acco	ordonoo w	ith the 2019						
LUMBER TOP CHORD	2x4 SPF No.2			tional Residential Cod			and					
BOT CHORE				0.2 and referenced sta								
WEBS	2x4 SPF No.2			SE(S) Standard								
BRACING	214 011 110.2		LOAD CA	Stanuaru								
TOP CHORD	D Structural wood she	athing directly appli	od or									
TOP CHORL	1-8-0 oc purlins, ex											
BOT CHORD												
BOT CHOILE	bracing.											
REACTIONS	0	echanical, 4=-13/										
		al, 5=304/0-3-8										
	Max Horiz 5=47 (LC											
	Max Uplift 3=-14 (LC	C 1), 4=-13 (LC 1), 5	i=-140									
	(LC 4)											
	Max Grav 3=11 (LC	4), 4=20 (LC 3), 5=	304									
	(LC 1)											
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	0 2-5=-261/140, 1-2=0	0/45, 2-3=-38/3										
BOT CHORD	0 4-5=0/0											
NOTES												
1) Wind: AS	SCE 7-16; Vult=115mph	(3-second gust)										
Vasd=91	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;	Cat.									100
II; Exp C;	; Enclosed; MWFRS (er	nvelope) exterior zoi	ne;								A OF	MIG
	er left and right exposed										TATE OF	MISSO
	osed; Lumber DOL=1.6		.60							6	174	N N
	s has been designed fo									B	5/ 5001	Т М. \7 У
	e load nonconcurrent w	,								B	/ SEV	TER \ Y
	iss has been designed f		Upst							Cat		
	ottom chord in all areas tall by 2-00-00 wide will		om							X	1 +K	
	id any other members.	III Delween line Dollo	om						- 2		Colling .	Lever >
	girder(s) for truss to tru	iss connections							- T	27		BER A
	mechanical connection		to							N.	PE-2001	101880/ 201
	plate capable of withsta									Y	N. Por	154
	3 lb uplift at joint 4 and										SSION	ENA

- joint 5, 13 lb uplift at joint 4 and 14 lb uplift at joint 3.



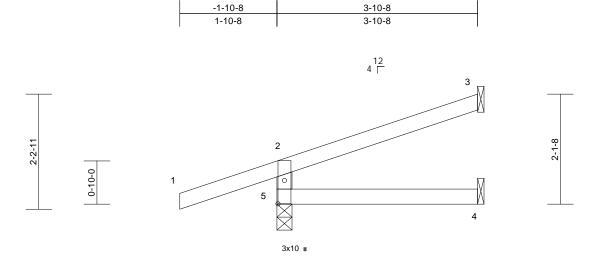
Page: 1



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J23	Jack-Open	3	1	Job Reference (optional)	153060762

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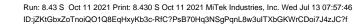


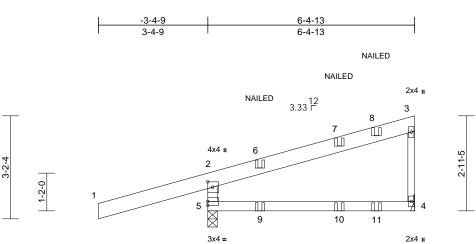
		3-10-8		
Scale = 1:22.2	I		I	
Plate Offsets (X, Y): [5:0-5-6,0-1-8]				

Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.28 0.11 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.00 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%
()	xcept end verticals. applied or 10-0-0 oc chanical, 4=30/ al, 5=345/0-3-8 4) 5 8), 5=-122 (LC 4)		Standard								
 FORCES (Ib) - Maximum Correston TOP CHORD 2-5=-302/148, 1-2=0 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BC II; Exp C; Enclosed; MWFRS (er cantilever left and right exposed right exposed; Lumber DCL=1.6 2) This truss has been designed fo chord live load nonconcurrent wi 3) * This truss has been designed fo on the bottom chord in all areas 3-06-00 tall by 2-00-00 wide will chord and any other members. 4) Refer to girder(s) for truss to tru 5) Provide mechanical connection bearing plate capable of withstat joint 5 and 49 lb uplift at joint 3. 6) This truss is designed in accorda International Residential Code s R802.10.2 and referenced stand 	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. (by others) of truss to dding 122 lb uplift at ance with the 2018 ections R502.11.1 ar	e; 1 90 Is. psf m							Ċ	STATE OF I SEVI SEVI PE-2001 PE-2001	L ENGINE



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J24	Diagonal Hip Girder	1	1	Job Reference (optional)	153060763





NAILED

NAILED

NAILED

6-4-13

Scale = 1:35.6

Plate Offsets (X, Y): [2:0-2-0,0-1-12]

		-											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.65	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	-0.07	4-5	>993	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 34 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP DSS 2x4 SPF 2400F 2.01 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 4=108/ M Max Horiz 5=126 (Lt Max Uplift 4=-58 (LC Max Grav 4=196 (Lt	ept* 3-4:2x3 SPF No athing directly applie cept end verticals. applied or 6-0-0 oc echanical, 5=988/0-: C 7) C 20), 5=-312 (LC 4)	ed or 9	 (0.148"x3.25 Hanger(s) o provided suf Ib down and design/selec responsibilit In the LOAD of the truss a OAD CASE(S) Dead + Ro Plate Incre Uniform Lo 	CASE(S) sectio are noted as fron Standard of Live (balanced ase=1.15	NDS guidlin n device(s t concentra -8 on top c nection de n, loads au t (F) or ba d): Lumber	nes.) shall be ated load(s) 2 chord. The vice(s) is the oplied to the ck (B).	face					
FORCES	(lb) - Maximum Con Tension 2-5=-914/348, 1-2=-		l.	Concentrat Vert: 1=-	ed Loads (lb) 250, 8=-50 (B), 9		0=9 (F), 11=	=-15					
BOT CHORD	3-4=-124/92 4-5=-40/54	,	,	(B)									
NOTES	4-040/04												
 Wind: ASC Vasd=91ri II; Exp C; I cantilever right exposition This truss chord live * This truss on the bot 3-06-00 ta 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed fo load nonconcurrent w is has been designed f tom chord in all areas all by 2-00-00 wide will any other members.	DL=6.0psf; h=25ff; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1. r a 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle	ne; d 60 ds. 0psf							Ś		STATE OF J	MISSOLAT T M. HER

- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 5 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SCOTT M. SEVIER PE-2001018807 July 14,2022

Page: 1

16023 Swingley Ridge Rd Chesterfield, MO 63017

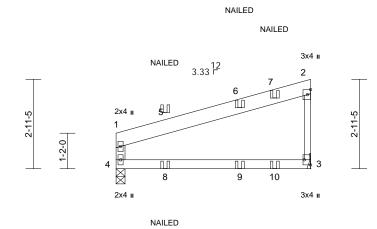
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J25	Diagonal Hip Girder	1	1	Job Reference (optional)	153060764

6-4-13

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:46 ID:1?ME?Frc7WD9CxdSJO4PpmyKb2R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

57.107.100f



NAILED

NAILED

6-4-13

Scale = 1	:37.9
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Plate Offsets (X, Y): [3:Edge,0-2-8]

	(X, 1): [0:Edge;0 2 0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.06	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.12	3-4	>609	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/TPI201	14 Matrix-R		Wind(LL)	0.01	3-4	>999	240	Weight: 22 lb	FT = 10%
LUMBER			8) In the	LOAD CASE(S) sectio	n. loads ai	oplied to the	face					
TOP CHORD	2x6 SPF No.2			truss are noted as fron								
BOT CHORD	2x4 SPF No.2		LOAD CA	SE(S) Standard								
WEBS	2x4 SPF No.2 *Exce	ept* 2-3:2x3 SPF No	0.2 1) Dead	I + Roof Live (balanced	d): Lumber	Increase=1.	15,					
BRACING			Plate	Increase=1.15								
TOP CHORD				rm Loads (lb/ft)								
	6-0-0 oc purlins, ex			ert: 1-2=-70, 3-4=-20								
BOT CHORD		applied or 10-0-0 o		entrated Loads (lb)								
	bracing.			ert: 7=-50 (F), 8=10 (F),	, 9=-4 (B),	10=-15 (F)						
REACTIONS	· /	echanical, 4=282/0-	-3-8									
	Max Horiz 4=106 (LC											
	Max Uplift 3=-82 (LC											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD		21/27 2-3-250/120	0									
BOT CHORD	,	24/27, 2-3=-230/120	5									
NOTES	5 - 21/44											
	SCE 7-16; Vult=115mph	(2 accord quat)										
	mph; TCDL=6.0psf; BC		Cat									
	; Enclosed; MWFRS (er											
	r left and right exposed											
right expo	osed; Lumber DOL=1.6	0 plate grip DOL=1.	.60									
	s has been designed for										000	ann
	e load nonconcurrent wi										ATE OF	MISC
	iss has been designed f		Jpsf							1	TIE	
	ottom chord in all areas all by 2-00-00 wide will	0	~~~							R	NY SCOT	New M
	d any other members.	in between the boll	JIII							A	S BCOI	
	girder(s) for truss to trus	s connections.								Ø .	SEV	
	mechanical connection (to							11		
	plate capable of withstar									14-4		Xander
	lb uplift at joint 3.	-								K	CONUN	
	s is designed in accorda									N	ON PE-2001	018807
Internatio	onal Residential Code s	ections R502 11 1 a	and							AV.		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.

7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

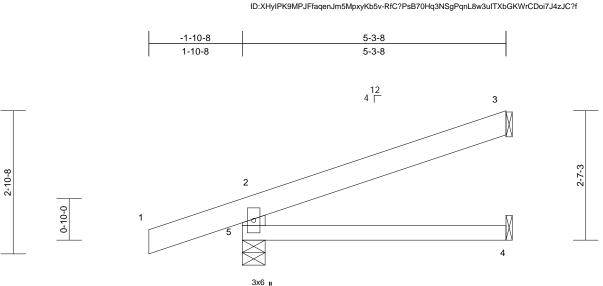
ESSIONAL E

July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J26	Jack-Open	2	1	Job Reference (optional)	153060765

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:46

Wheeler Lumber, Waverly, KS - 66871,



					5-3-8						4		
Scale = 1:23.1									I				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	4-5	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 20 lb	FT = 10%	

LUMBER

LOWIDER		
TOP CHORD	2x6 SPF	No.2
BOT CHORD	2x4 SPF	No.2
WEBS	2x6 SPF	No.2
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied or
	5-3-8 oc	purlins, except end verticals.
BOT CHORD	Rigid cei	ling directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	3=151/ Mechanical, 4=43/

	Mechanical, 5=403/0-5-8
Max Horiz	5=97 (LC 4)
Max Uplift	3=-71 (LC 8), 5=-131 (LC 4)
Max Grav	3=151 (LC 1), 4=82 (LC 3), 5=403 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

 TOP CHORD
 2-5=-347/168, 1-2=0/47, 2-3=-67/37

 BOT CHORD
 4-5=0/0

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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 5 and 71 lb uplift at joint 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.

LOAD CASE(S) Standard

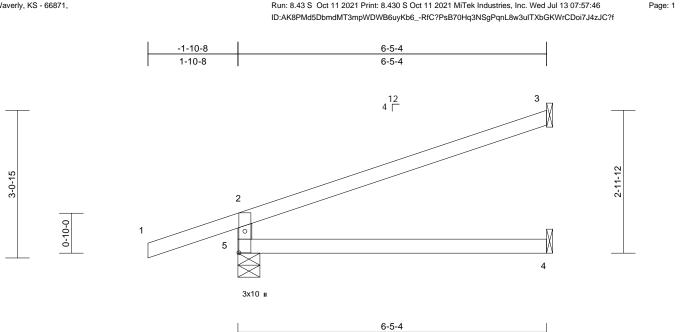


Page: 1

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J27	Jack-Open	11	1	Job Reference (optional)	153060766



Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:46

Scale = 1:24

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

		1										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		0.57	Vert(LL)	-0.07	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		0.36	Vert(CT)	-0.15	4-5	>503	240		
BCLL	0.0*	Rep Stress Incr	YES	-	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	4-5	>999	240	Weight: 18 lb	FT = 10%
						()					Ŭ	
LUMBER			LOAD CASE(S)	Standard								
TOP CHORD												
BOT CHORD												
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORD	Structural wood she		ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS		echanical, 4=70/										
		al, 5=445/0-5-8										
	Max Horiz 5=112 (LC											
	Max Uplift 3=-88 (LC		F 44F									
	Max Grav 3=188 (L0	C 1), 4=115 (LC 3),	5=445									
	(LC 1)											
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	2-5=-390/180, 1-2=0	7/45 2 2- 95/46										
BOT CHORD		J/45, 2-3=-05/40										
	4-5-0/0											
NOTES	CE 7-16; Vult=115mph	(2 accord such)										
	nph; TCDL=6.0psf; BC		Cot									
	Enclosed; MWFRS (er											
	left and right exposed										O DE	A Part
	sed; Lumber DOL=1.6										ALE OF	WISS OF
	has been designed fo									4	TATE OF	N.S.
	load nonconcurrent w		ids.							A	SCOT	TM.
3) * This trus	ss has been designed f	for a live load of 20.0	Opsf							A	SEV	
	ttom chord in all areas									10		
	all by 2-00-00 wide will	fit between the botte	om							X		X and in
	any other members.										your -	Server
	jirder(s) for truss to tru		ha							23	NUM	
	nechanical connection									N.	PE-2001	018807
	late capable of withsta d 88 lb uplift at joint 3.	nung iza ib uplittat	L							V	The last	158
	is designed in accorda	ance with the 2018									NºS'SIG	ENUS
	nal Residential Code s		and								SSIONA	L
	2 and referenced stand										1000	200
											L. J.	44 2022

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J28	Jack-Open	2	1	Job Reference (optional)	153060767

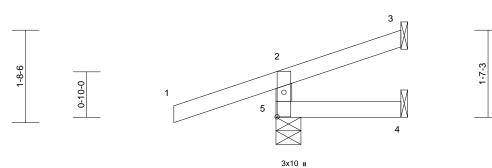
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.







	2-3-8	1
		1
Scale = 1:21.1	•	
Plate Offsets (X, Y): [5:0-5-6,0-1-8]		

		1	-									
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15).28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	-	0.00	Horz(CT)	0.00	3	n/a	n/a	Mainh to Olle	FT 400/
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%
LUMBER			LOAD CASE(S)	Standard								
TOP CHORD												
BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2											
BRACING	2X4 3FF NU.2											
TOP CHORD	Structural wood she	athing directly applie	ed or									
	2-3-8 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	0									
REACTIONS		chanical, 4=1/ al, 5=304/0-5-8										
	Max Horiz 5=55 (LC											
	Max Uplift 3=-20 (LC	,										
	Max Grav 3=25 (LC	1), 4=33 (LC 3), 5=3	304									
FORCES	(LC 1) (Ib) - Maximum Com	procesion/Maximum										
FORCES	Tension	pression/maximum										
TOP CHORD	2-5=-263/137, 1-2=0	0/45, 2-3=-38/3										
BOT CHORD	4-5=0/0											
NOTES		(0										
	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC		Cat									
	Enclosed; MWFRS (er										000	alle
	left and right exposed										TEOF	MISC
	sed; Lumber DOL=1.6 has been designed fo		50							1	TE	
	load nonconcurrent w		ds.							B	SCOT	TM XPN
	s has been designed f								_	a	SEV	
	tom chord in all areas								<u> </u>	En t		
	Il by 2-00-00 wide will any other members.	fit between the botto	m							XX _	417	Shulpar
	irder(s) for truss to tru	iss connections.							_		NUM	
	echanical connection		D							127	PE-2001	
	ate capable of withsta	nding 129 lb uplift at								N.	The second second	IS A
	I 20 lb uplift at joint 3. is designed in accorda	ance with the 2019									SSI-	ENOIS
	nal Residential Code s		nd								SSIONA	IL D'
	and referenced stand										all a	
											Jul	y 14,2022



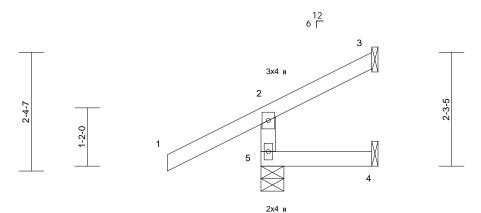
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J29	Jack-Open	1	1	Job Reference (optional)	153060768

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:47 ID:xb60TY_ai?Ueuga5Uqr4F_yKb67-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2-2-10





Scale = 1:23.1

_			1		1		i					i	
Lo	ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	LL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TC	()	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		101/111
BC		0.0*	Rep Stress Incr	YES	WB	0.00	· · ·	-0.01	3	n/a	n/a	1	
BC		10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%
	DL	10.0	Code	11(02010/11 12014	Maultx-IX		WING(LL)	0.00	4-0	/333	240	Weight. 9 lb	1 1 = 1078
LU	MBER												
	P CHORD	2x4 SPF No.2											
	T CHORD												
WE	BS	2x4 SPF No.2											
BR	ACING												
	P CHORD	Structural wood she	athing directly applie	ed or									
10		2-2-10 oc purlins, e											
BO	T CHORD	Rigid ceiling directly		c									
50	1 ONORD	bracing.		0									
PE	ACTIONS	0	chanical, 4=1/										
NL.	ACTIONS		al, 5=303/0-5-8										
		Max Horiz 5=64 (LC											
		Max Uplift 3=-29 (LC											
		Max Grav 3=19 (LC	,, , ,	-303									
		(LC 1)	10), 1-02 (20 0), 0-	-000									
FO	RCES	(lb) - Maximum Corr	nression/Maximum										
	NOLO	Tension	ipression/maximum										
то	P CHORD	2-5=-264/75, 1-2=0/	63 2-3=-55/4										
	T CHORD		00, 2 0 - 00, 1										
	TES	10-0/0											
		CE 7-16; Vult=115mph	(2 accord such)										
1)		nph; TCDL=6.0psf; BC		Cat									
		Enclosed; MWFRS (er											
		left and right exposed											
		sed; Lumber DOL=1.6										TATE OF	1000
2)		has been designed fo										POF.	MISC
-/		load nonconcurrent wi		ds.							1	950	
3)		s has been designed f									A	N/ DOOT	New Mar
- /		tom chord in all areas									A	5/ 5001	
	3-06-00 ta	II by 2-00-00 wide will	fit between the botto	om							H C	/ SEV	TER / X
		any other members.									Ø 🛪	11	1 * 12
4)	Refer to g	irder(s) for truss to tru	ss connections.								2	Y _	
5)	Provide m	echanical connection	(by others) of truss to	0							4-		Men Men V
	bearing pla	ate capable of withstar	nding 53 lb uplift at jo	oint							17	DE 2001	1010007
	5 and 29 l	b uplift at joint 3.									W.	O PE-2001	1018807
											V1	17 A	

 This truss 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) Standard

July 14,2022



ESSIONAL E

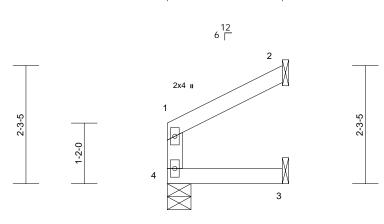
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	J30	Jack-Open	1	1	Job Reference (optional)	153060769

2-2-10

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:47 ID:2qsVdAx3fn_CQ3GJF_n758yKb6B-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2x4 II

2-2-10

Scale = 1:22.2

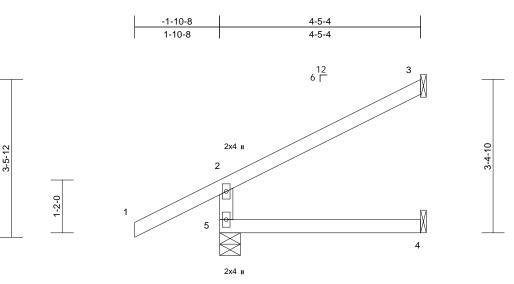
Scale = 1:22.2												
Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.06 0.03	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 3-4 3-4	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.01	3-4 2	>999 n/a	240 n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R	0.00	Wind(LL)	0.00	3-4	>999	240	Weight: 6 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2						0.00			210		
	2-2-10 oc purlins, e											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 of	C									
		8)	90									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD	1-4=-74/15, 1-2=-40	/23										
NOTES												
1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.6	ne; d								Contraction of F	A DEC
2) This truss	has been designed for	r a 10.0 psf bottom									TEOF	MISSON
3) * This trus on the bott 3-06-00 ta	load nonconcurrent wi s has been designed f tom chord in all areas Il by 2-00-00 wide will any other members.	or a live load of 20.0 where a rectangle)psf								STAT SCOT SEV	тм.
5) Provide m	irder(s) for truss to tru echanical connection (ate capable of withstar	(by others) of truss to									PE-2001	018807 Z
Ínternation R802.10.2	is designed in accordanal Residential Code so and referenced stand	ections R502.11.1 a	nd							Ŷ	ESSION A	IL ENGILE
LOAD CASE(S) Standard											v 14 2022



Job	Truss	Truss Type		Ply	Boyer Res Roof		
210568	J31	Jack-Open	16	1	Job Reference (optional)	153060770	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:47 ID:HHNTyRr2XJ_LSqfnnIdFmTyKb6J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





4-5-4

Scale =	1:25.4
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		1		1							i	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.29	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	4-5	>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/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 14 lb	FT = 10%
	:	ļ									-	
TOP CHORD												
BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2											
	2X4 3FF NU.2											
BRACING TOP CHORD	Structural wood she	othing directly opplic	dor									
TOP CHORD	4-5-4 oc purlins, ex											
BOT CHORD			_									
BOT ONORE	bracing.											
REACTIONS	0	echanical, 4=40/										
		al, 5=366/0-5-8										
	Max Horiz 5=76 (LC	,										
	Max Uplift 3=-46 (LC	2 8), 5=-6 (LC 8)										
	Max Grav 3=117 (L0	C 1), 4=77 (LC 3), 5=	=366									
	(LC 1)											
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD		63, 2-3=-80/39										
BOT CHORD	0 4-5=0/0											
NOTES												
	CE 7-16; Vult=115mph		~ /									
	mph; TCDL=6.0psf; BC ; Enclosed; MWFRS (er											
	exposed ; end vertical											
	DOL=1.60 plate grip DC		u,								COL	all
	s has been designed fo										THEOF	MISC
	e load nonconcurrent wi		ds.							1	TIC	W.OS
3) * This tru	ss has been designed f	or a live load of 20.0	psf									MAN MT
	ottom chord in all areas									R	SCOT SEV	
	all by 2-00-00 wide will	fit between the botto	m							6	SEV.	
	d any other members.											
	girder(s) for truss to tru		_							10	h.#	ilian Il
	nechanical connection									W	CORM	Kerry K
	plate capable of withstan puplift at joint 3.	nuing o in uplin at joi	ni o							N	PE-2001	018807 28
	s is designed in accorda	ance with the 2018								N	The second	12 A
	onal Residential Code s		nd							1	CSSIONA	NO'A
	2 and referenced stand										ONA	LELA
											UNA	

LOAD CASE(S) Standard

Jun July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY1	Lay-In Gable	1	1	Job Reference (optional)	153060771

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:48 ID:K_dCzkspILGZgE8sg24TRVyKbbH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1

14-4-13 || 0-2-2 7-2-6 14-2-10 7-2-6 7-0-4 4x4= 5 4 6 11-4-14 ကု 1-1-3 12 18.97 8 2 0-0-4 10 16 15 14 13 12 11 3x4 🥡 3x4、

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Scale = 1:66.8

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI20	CSI TC BC WB 14 Matrix-S	0.08 0.06 0.23	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 89 lb	GRIP 197/144 FT = 10%
	(lb/size) 1=52/14-4 10=153/14 12=184/14 14=184/14 14=184/14 Max Horiz 1=-324 (Ll Max Uplift 1=-283 (Ll 10=-200 (l 12=-239 (l 15=-247 (l Max Grav 1=488 (LC 10=214 (L 12=263 (L	applied or 10-0-0 oc 5-13 1-13, 9=52/14-4-13, 1-4-13, 11=185/14-4- 1-4-13, 13=102/14-4- 1-4-13, 15=185/14-4- 1-4-13, 15=185/14-4- 1-4-13, 15=185/14-4- 1-4-13, 15=185/14-4- 1-4-13, 15=248 (LC 9), C 6), 9=-249 (LC 7), LC 9), 11=-248 (LC 9), C 16), 11=259 (LC 1), C 16), 11=259 (LC 1), C 16), 13=255 (LC 1) C 15), 15=258 (LC 1)	this d 2) Wind: Vasd: I; Ex; 1 or cantil right (3) Truss only. see S or con 13, 5) Gable 13, 6) Gable 13, 7) This t chord 8) * This (nor con 13, 5) Gable 13, 7) This t chord 8) * This (nor con 13, 6) Gable 13, 7) Chord 9) Provi 6), joint 1 (b up) 14	lanced roof live loads esign. ASCE 7-16; Vult=11! =91mph; TCDL=6.0ps o C; Enclosed; MWFR ever left and right exp exposed; Lumber DOI designed for wind loa For studs exposed to tandard Industry Gab mult qualified building tes are 2x4 MT20 un requires continuous o studs spaced at 2-0- russ has been design live load nonconcurre truss has been design bottom chord in all a D0 tall by 2-00-00 wide and any other memb de mechanical connex g plate capable of wi , 249 lb uplift at joint ff at joint 15, 200 lb u 2, 248 lb uplift at joint	5mph (3-sec f; BCDL=6. S (envelops osed ; end v _=1.60 plate das in the pl wind (norm le End Deta designer a: less otherwi bottom choo 0 oc. ed for a 10. ent with any ned for a livir reas where e will fit betw ers. tion (by oth thstanding 2 9, 240 lb up plift at joint	cond gust) Dpsf; h=25ft; (a) exterior zor ertical left an- grip DOL=1.6 ane of the true al to the face) is as applicat s per ANSI/TF se indicated. d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss tr r83 lb uplift at ift at joint 14, 16, 239 lb upli	Cat. ne; d 60 ss ole, PI1. ds. ppsf om 247 ft at					2000
FORCES	(lb) - Maximum Com Tension 1-2=-578/358, 2-3=- 4-5=-140/192, 5-6=- 7-8=-364/233, 8-9=-{	388/274, 3-4=-193/16 111/169, 6-7=-162/12	Íntern 1, R802	russ is designed in ac ational Residential Co 10.2 and referenced SE(S) Standard	ode sections	R502.11.1 a	nd			A	STATE OF I	TM. $\sum Y_{\lambda}$
BOT CHORD	1-16=-304/233, 8-9=- 1-16=-171/311, 15-1 14-15=-171/311, 13- 12-13=-171/311, 11- 10-11=-171/311, 9-1	6=-171/311, 14=-171/311, 12=-171/311,								ß	SEVI Sett	Sente
WEBS NOTES	5-13=-231/38, 4-14= 3-15=-217/273, 2-16 6-12=-223/262, 7-11 8-10=-177/214	-225/264, =-177/214,								As .	PE-2001	L ENGL

14-4-13

July 14,2022

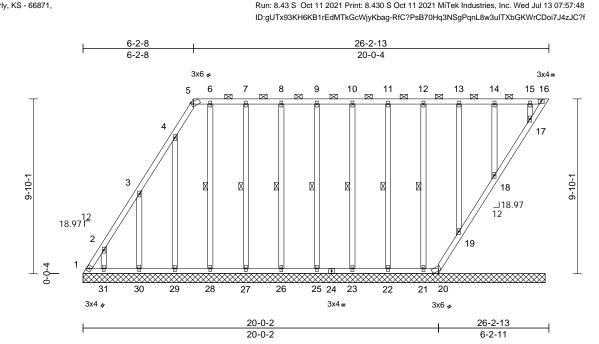


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY2	Lay-In Gable	1	1	Job Reference (optional)	153060772

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:48





Scale = 1:64.9 Plate Offsets (X, Y): [5:0-1-5,Edge], [20:0-3-0,Edge]

	., ., .	,=	[
Loading TCLL (roof) TCDL BCLL		(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.08 0.03 0.18	Vert(TL)	in n/a n/a -0.01	,	oc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144	
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-S								Weight: 175 lb	FI = 10%	
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2 BRACING 2x4 SPF No.2 BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-16. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17. WEBS 1 Row at midpt 6-28, 7-27, 8-26, 9-25, 10-23, 11-22, 12-21 REACTIONS (Ib/size) 1=43/26-0-5, 16=34/26-0-5, 17=151/26-0-5, 18=187/26-0-5, 21=172/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 23=180/26-0-5, 30=189/26-0-5, 30=180/26-0-5, 30=180/26-0-5, 30=180/26-0-5, 30=180/26-0-5				d or 5, 5, 5, 5,	FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanced this design.	(lb) - Maximum Compression/Maximum Tension 1-2=-599/281, 2-3=-413/199, 3-4=-151/77, 4-5=-81/48, 5-6=-30/55, 6-7=-30/55, 7-8=-30/55, 8-9=-30/55, 9-10=-30/55, 10-11=-30/55, 11-12=-30/55, 12-13=-30/55 13-14=-30/55, 14-15=-30/55, 15-16=-30/55 1-31=-55/30, 30-31=-55/30, 29-30=-55/30, 28-29=-55/30, 27-28=-55/30, 29-30=-55/30, 25-26=-55/30, 20-21=-55/30, 22-23=-55/30, 21-22=-55/30, 20-21=-55/30, 19-20=-110/72, 18-19=-112/74, 17-18=-114/72, 16-17=-109/56 2-31=-174/209, 3-30=-228/286, 4-29=-174/198, 6-28=-124/50, 7-27=-144/62, 8-26=-140/57, 9-25=-140/58, 10-23=-140/58, 11-22=-140/58, 12-21=-140/57, 13-19=-139/57, 14-18=-144/59, 15-17=-117/49					 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 1, 87 lb uplift at joint 16, 40 lb uplift at joint 20, 196 lb uplift at joint 26, 34 lb uplift at joint 27, 33 lb uplift at joint 26, 34 lb uplift at joint 27, 33 lb uplift at joint 28, 38 lb uplift at joint 21, 40 lb uplift at joint 17. 10) Non Standard bearing condition. Review required. 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 putin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard 					
	Max Uplift	1=-219 (L 17=-29 (L 21=-38 (L 23=-34 (L 23=-34 (L 23=-26 (L 30=-260 (L 1=506 (L 17=151 (I 19=175 (I 21=172 (I 23=180 (I 26=180 (I 28=164 (I	,	, 3)),), 2), 5),	 Wind: ASC Vasd=91m II; Exp C; E cantilever luright expos Truss desig only. For s see Standa or consult c All plates a 6) Gable stud This truss h 	E 7-16; Vult=115mp ph; TCDL=6.0psf; B inclosed; MWFRS (e eft and right expose ed; Lumber DOL=1. gned for wind loads it tuds exposed to win rrd Industry Gable E qualified building des equate drainage to p re 2x4 MT20 unless s spaced at 2-0-0 oc nas been designed f poad nonconcurrent v	CDL=6.0 envelope d; end v 60 plate n the pla d (norm nd Deta signer as prevent v otherwi c. or a 10.0	Dpsf; h=25ft; e) exterior zo vertical left ar grip DOL=1 ane of the tru al to the face ils as applica s per ANSI/T water pondin se indicated.	ne; nd .60 .iss e), able, PI 1. g.				Be	STATE OF I SEVI NUM PE-2001	BER 018807	

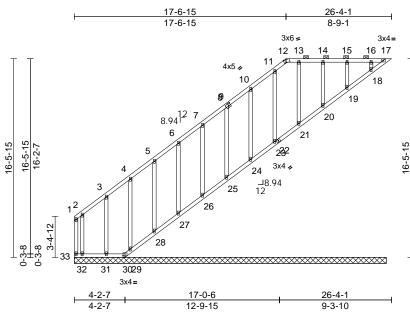
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY3	Lay-In Gable	1	1	Job Reference (optional)	153060773

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Scale = 1:95.7

Plate Offsets (X, Y): [9:0-2-0.0-2-4]. [12:0-1-14.Edge]. [30:0-2-0.0-1-8]

	X, Y): [9:0-2-	-0,0-2-4],	[12:0-1-14,Edge], [3	0:0-2-0,0-1-8]									
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix	0.22 0.09 0.11 ·S	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.04		- n/a - n/a	999 999		GRIP 197/144 FT = 10%
BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc pu 2-0-0 oc pu Rigid ceiling bracing. (lb/size) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	athing directly applie cept end verticals, ar -0 max.): 12-17. applied or 6-0-0 oc -10-15, 18=163/25-1 5-10-15, 5-10-15, 5-10-15, 5-10-15, 5-10-15, 5-10-15, 5-10-15, 5-10-15, 5-10-15,	d or Id FORCES TOP CHORD D-15, BOT CHORD	(lb) - Ma Tension 1-33=-13 3-4=-99/ 6-7=-178 10-11=-2 14-13=-2 16-17=-2 32-33=-4 30-31=-4 28-29=-6 26-27=-6 24-25=-6	17=168 (LC 6), 19=184 (LC 1), 21=245 (LC 17) 24=208 (LC 15) 28=191 (LC 15) 28=191 (LC 15) 30=386 (LC 8), 32=232 (LC 15) ximum Compressi 19/5, 1-2=-126/21, 98, 4-5=-123/149, 1/301, 7-8=-206/31 7/2/553, 11-12=-2 1/20/478, 13-14=-2 1/20/478, 15-16=-2 1/20/478, 15-16=-2 1/20/478, 15-16=-2 1/20/478, 15-20-2 1/20/478, 15-20-2 20/4787, 27-28-26-6 1/20/207, 23-24-6	20=180 (LC 2 , 23=202 (LC , 25=186 (LC , 29=190 (LC 31=193 (LC 1 , 33=238 (LC on/Maximum 2-3=-74/52, 5-6=-150/22! 78, 8-10=-230 31/483, 20/478, 20/478, 78/220, 12/292, 04/287, 04/287, 04/287,	22), 17), 15), 15), 15), 15), 8) 5, 5,	 V II cri T o s o 4) F 5) A 6) T b b 6) T 5) A A 5) A 6) T 5) A 6) T 5) A 6) T 5) A 6) T T<!--</td--><td>/asd=91n l; Exp C; l; antilever ight exposi- russ desi- nly. For see Stand provide ac All plates a provide ac All plates a provide ac boraced ag Gable stuce this truss shord live This trus bord loog and bord live thord loog boraced ac and bord live the struss thord live the struss thord loog boraced ac the struss thord loog and boraced ac and boraced</td><td>hph; TC Enclose left and sed; Lui igned fc studs e: ard Indie dequate are 2x4 e fully s ainst lat ds spac has be load no s has b tom chc ll by 2-0</td><td>; Vult=115mph (; DL=6.0psf; BCD d; MWFRS (env I right exposed ; or mber DOL=1.60 or wind loads in th xposed to wind (i ustry Gable End d building desigr drainage to prev MT20 unless ot heathed from on teral movement (ed at 2-0-0 oc. en designed for a inconcurrent with een designed for ord in all areas wi</td><td>3-second gust) L=6.0psf; h=25ft; Cat. elope) exterior zone; end vertical left and plate grip DOL=1.60 he plane of the truss normal to the face), Details as applicable, her as per ANSI/TPI 1. vent water ponding. herwise indicated. e face or securely i.e. diagonal web). a 10.0 psf bottom a any other live loads. a live load of 20.0psf</td>	/asd=91n l; Exp C; l; antilever ight exposi- russ desi- nly. For see Stand provide ac All plates a provide ac All plates a provide ac boraced ag Gable stuce this truss shord live This trus bord loog and bord live thord loog boraced ac and bord live the struss thord live the struss thord loog boraced ac the struss thord loog and boraced ac and boraced	hph; TC Enclose left and sed; Lui igned fc studs e: ard Indie dequate are 2x4 e fully s ainst lat ds spac has be load no s has b tom chc ll by 2-0	; Vult=115mph (; DL=6.0psf; BCD d; MWFRS (env I right exposed ; or mber DOL=1.60 or wind loads in th xposed to wind (i ustry Gable End d building desigr drainage to prev MT20 unless ot heathed from on teral movement (ed at 2-0-0 oc. en designed for a inconcurrent with een designed for ord in all areas wi	3-second gust) L=6.0psf; h=25ft; Cat. elope) exterior zone; end vertical left and plate grip DOL=1.60 he plane of the truss normal to the face), Details as applicable, her as per ANSI/TPI 1. vent water ponding. herwise indicated. e face or securely i.e. diagonal web). a 10.0 psf bottom a any other live loads. a live load of 20.0psf
	3 Max Horiz 3 Max Uplift 1 2 2 2 2 3 3	33=487 (L 17=-355 (l 19=-35 (L 21=-72 (L 25=-69 (L 27=-78 (L 29=-109 (l	5-10-15, 33=-5/25-10 .C 8) LC 8), 18=-32 (LC 5) C 4), 20=-69 (LC 5), C 6), 24=-130 (LC 8) C 8), 26=-81 (LC 8), C 8), 26=-80 (LC 8), LC 8), 30=-169 (LC 6) C 8), 32=-253 (LC 8)	, WEBS , ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	19-20=-6 17-18=-6 2-32=-12 4-29=-14 6-27=-14 8-25=-14 11-23=-1 14-20=-1 16-18=-1 ed roof live	28/167, 3-31=-157 17/100, 5-28=-150 19/102, 7-26=-150 16/93, 10-24=-168 62/27, 13-21=-20 41/93, 15-19=-14	04/286, /114, /104, /105, /154, 5/112, 3/60,	ır				STATE OF SCOT SEV PE-200J	TER ANA



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July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY3	Lay-In Gable	1	1	Job Reference (optional)	153060773

- Bearing at joint(s) 17, 21, 20, 19, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 33, 355 lb uplift at joint 17, 169 lb uplift at joint 30, 253 lb uplift at joint 32, 83 lb uplift at joint 31, 109 lb uplift at joint 29, 80 lb uplift at joint 28, 78 lb uplift at joint 27, 81 lb uplift at joint 26, 69 lb uplift at joint 25, 130 lb uplift at joint 24, 72 lb uplift at joint 21, 69 lb uplift at joint 20, 35 lb uplift at joint 19 and 32 lb uplift at joint 18.
- 12) Non Standard bearing condition. Review required.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

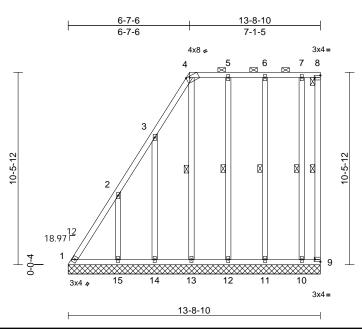
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:48 ID:IGabHuyKZV30wqs6Jtg2y_yKbYa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof		
210568	LAY4	Lay-In Gable	1	1	Job Reference (optional)	153060774	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:49 ID:W_TLFBRMhle7GD4rlLPyivyKbZF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



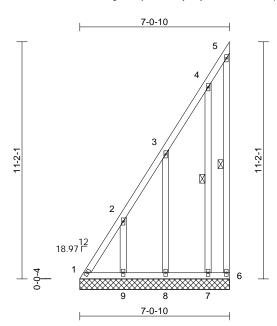
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Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	(psi)		1.15		TC	0.49	Vert(LL)	n/a	(100)	n/a	999	MT20	197/144
TCDL (1001)			1.15		BC		Vert(LL)	n/a	-	n/a	999 999	101120	197/144
	10.0				-	0.21	()						
BCLL	0.0*		YES		WB	0.17	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S							Weight: 106 lb	FT = 10%
BCDL LUMBER TOP CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	$\begin{array}{c} 2x4 \; {\rm SPF} \; {\rm No.2} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	athing directly applied cept end verticals, and -0 max.): 4-8. applied or 10-0-0 oc 8-9, 4-13, 5-12, 6-11, 7-10 3-10, 9=22/13-8-10, 3-8-10, 11=187/13-8-1 3-8-10, 13=169/13-8-1 3-8-10, 13=169/13-8-1 3-8-10, 13=205/13-8-1 C 5), 9=-55 (LC 7), C 4), 11=-53 (LC 5), C 4), 13=-202 (LC 7), LC 8), 15=-310 (LC 8) C 5), 9=35 (LC 4), 10= 1=187 (LC 1), 12=190 3=224 (LC 15), 14=238 (5=328 (LC 15) 197ession/Maximum 382/265, 3-4=-313/211 144/109, 6-7=-144/109 155/127 15=-148/112, -13=-146/110,	1) or 2) (3) (4) (5) (6) (7) (0, 8) (9) (10) (9, 11) (9, 11) (9, LO	TES Wind: ASCE Vasd=91mpH II; Exp C; En cantilever lef right exposed or consult qu Provide adec All plates are Gable requir Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Provide mec bearing plate joint 1, 55 lb lb uplift at joi joint 12, 53 lt This truss a International R802.10.2 ar Graphical pu		CDL=6.0 enveloped d; end v 60 plate in the plate is prevent v or or a flot or cherwise or a flot or a flot o	Dpsf; h=25ft; () exterior zor rertical left an grip DOL=1.1 ane of the true al to the face; ils as applicat s per ANSI/TF water ponding; b psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss th 65 lb uplift at t at joint 15, 2 3, 39 lb uplift uplift at joint tith the 2018 R502.11.1 a ISI/TPI 1. bt depict the s	ne; d 60 ss ,, pole, 11. ds. j. ds. j. ds. opsf om 225 at 10. nd				Weight: 106 lb	MISSOLP T.M. ER DISSO7 ER

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY5	Lay-In Gable	2	1	Job Reference (optional)	153060775

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:49 ID:?XgsJbTlQjUwbRfNKPy7B2yKbXv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:54.3

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	18/TPI2014	CSI TC BC WB Matrix-P	0.10 0.02 0.13	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a n/a	(loc) - - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 54 lb	GRIP 197/144 FT = 10%
	6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 1=63/7-0- 7=144/7-(9=189/7-0 Max Horiz 1=429 (L0 Max Uplift 1=-235 (L 9=-249 (L Max Grav 1=596 (L0	5-6, 4-7 10, 6=17/7-0-10, 0-10, 8=186/7-0-10, 0-10 C 8) C 6), 6=-27 (LC 8), C 8), 8=-248 (LC 8), C 8)	6 7 d or 8 9 L =200	 This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar Provide mecl bearing plate joint 1, 27 lb uplift at joint This truss is International 	spaced at 2-0-0 of s been designed f ad nonconcurrent v has been designed n chord in all area: by 2-00-00 wide wi y other members. hanical connection capable of withst uplift at joint 6, 24 8 and 185 lb uplift designed in accord Residential Code nd referenced star Standard	or a 10.0 with any l for a liv s where Il fit betw n (by oth anding 2 9 lb uplif at joint dance w sections	other live load e load of 20.0p a rectangle veen the bottor ers) of truss to (35 lb uplift at t at joint 9, 248 7. tith the 2018 : R502.11.1 an	osf m 3 Ib					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	4-5=-46/15, 5-6=-22		18,										done.
Vasd=91n II; Exp C; cantilever plate grip 2) Truss desi only. For see Stand or consult 3) All plates a	1-9=0/0, 8-9=0/0, 7- 2-9=-223/274, 3-8=- CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed DOL=1.60 igned for wind loads in studs exposed to wind lard Industry Gable En qualified building desi are 2x4 MT20 unless of uires continuous botto	221/272, 4-7=-167/20 (3-second gust) DL=6.0psf; h=25ft; C twelope) exterior zon ; Lumber DOL=1.60 the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP btherwise indicated.	at. e; s							(A REAL	PE-2001	I ER 018807

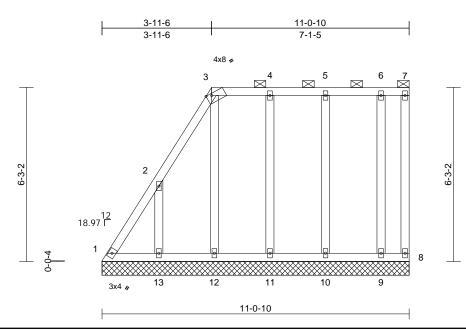
July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY6	Lay-In Gable	1	1	Job Reference (optional)	153060776

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:49 ID: M1XbUwymFiONmQ8s668GGGyKbXI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:41.5

Plate Offsets (X, Y): [3:0-2-5,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	* Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 64 lb	FT = 10%
LUMBER FOP CHORD WEBS DTHERS BRACING FOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood s 6-0-0 oc purlins, 2-0-0 oc purlins (Rigid ceiling dire bracing. (Ib/size) 1=66/1 9=141, 11=19 13=19 Max Horiz 1=236 Max Uplift 1=-142 (LC 4) 4), 12= Max Grav 1=252 (LC 1) 1), 12= 15)	heathing directly applie except end verticals, ar i-0-0 max.): 3-7. tly applied or 10-0-0 oc 1-0-10, 8=20/11-0-10, 11-0-10, 12=160/11-0- /11-0-10 /11-0-10 /LC 7) (LC 6), 8=-16 (LC 5), 9 10=-39 (LC 5), 13=-264 (L (LC 5), 8=20 (LC 1), 9= 10=185 (LC 1), 11=192 191 (LC 15), 13=277 (L	2) 3) 4) d or 5) id 7) 8) 0, 10, 9) =-41 (LC C 8) 10] (LC C 8) 10]	Truss design only. For stu see Standarc or consult qu Provide adec All plates are Gable requir Gable studs : This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide mecl bearing plate joint 1, 16 lb lb uplift at joi joint 10 and 4) This truss is 4 International R802.10.2 ar	ed for wind loads ds exposed to wi I ndustry Gable E alified building de juate drainage to 2x4 MT20 unless es continuous bé spaced at 2-0-0 o s been designed d nonconcurrent as been designed d nonconcurrent as been designed n chord in all area y 2-00-00 wide w y 2-00-00 wide w y other members nanical connectio capable of withs uplift at joint 4, 26 th 12, 40 lb uplift : 11 lb uplift at joint designed in accor Residential Code dr referenced sta fin representation tion of the purlin	nd (norm End Deta signer a prevent s sotherwit tom choic. for a 10. with any d for a liv so where ill fit betw. n (by oth tanding 44 lb uplii at joint 1 9. dance w sections ndard Ah n does n	al to the face ils as applical is per ANSI/TF water ponding se indicated. d bearing. D psf bottom other live loa e load of 20.0 a rectangle ween the botto ers) of truss t 42 lb uplift at t at joint 13, 1 I, 39 lb uplift ith the 2018 is R502.11.1 a ISI/TPI 1.), ble, Pl 1. J. ds. Jpsf om o 37 at nd					
	Tension	ompression/Maximum	LO	bottom chord AD CASE(S)								TEOF	MISSO
TOP CHORD		=-203/134, 3-4=-85/63, 84/64, 6-7=-84/64,									A	S SCOT	тм.
BOT CHORD		3=-88/66, 11-12=-86/65 0=-86/65, 8-9=-86/65	5,								8,0	SEV	
WEBS	2-13=-226/278, 3 4-11=-152/63, 5-	12=-153/162, 0=-144/59, 6-9=-109/7	6							-	R	Roll	Server
Vasd=91n II; Exp C; cantilever	Enclosed; MWFRS left and right expos	ph (3-second gust) 3CDL=6.0psf; h=25ft; C (envelope) exterior zon; ad ; end vertical left and .60 plate grip DOL=1.6	e; I								A Star	PE-2001	018807 E

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY7	Lay-In Gable	1	1	Job Reference (optional)	153060777

3-2-7 3-2-7

Wheeler Lumber, Waverly, KS - 66871,

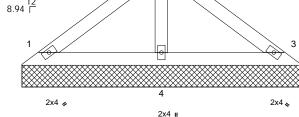
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6-0-5

2-9-13



4x4 =2 12 8.94 ⊏



6-1-15

Scale = 1:26.5												
pading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
CLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
CDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

BOT CHORD	ZX4 SPF I	N0.2
OTHERS	2x4 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	1=140/6-4-15, 3=140/6-4-15,
		4=222/6-4-15
	Max Horiz	1=-54 (LC 4)
	Max Uplift	1=-30 (I C 8) 3=-37 (I C 9)

2-1-3

2-4-15

	1 = -30 (10 0), 3 = -37 (10 3)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-88/47, 2-3=-83/35
BOT CHORD	1-4=-12/39, 3-4=-12/39
WEBS	2-4=-153/38

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) 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.
- Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- standing 30 lb uplift at joint 1 and 37 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and
- R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

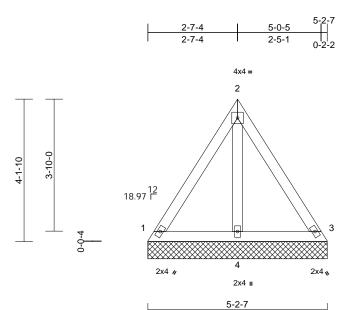


July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY8	Lay-In Gable	1	1	Job Reference (optional)	153060778

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Scale = 1:33.4

Ocale = 1.55.4		1											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%
	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-2-12 oc purlins. Rigid ceiling directly bracing. (Ib/size) 1=142/5-2 4=139/5-2 Max Horiz 1=110 (L0 Max Uplift 1=-50 (L0 Max Grav 1=149 (L0 4=140 (L0	applied or 10-0-0 or 2-7, 3=142/5-2-7, 2-7 2 5) 2 9), 3=-43 (LC 8) 2 16), 3=142 (LC 1),	8 ed or c ⁹ L	 on the bottor 3-06-00 tall l chord and an Provide mechanism Provide mechanism and 43 lb to This truss is International 	has been design m chord in all a by 2-00-00 wid hy other memb chanical connere capable of wi uplift at joint 3. designed in ac Residential C nd referenced Standard	areas where le will fit betw pers. ction (by oth ithstanding 5 ccordance w ode sections	a rectangle veen the bott ers) of truss 0 lb uplift at th the 2018 R502.11.1 a	to joint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-133/66, 2-3=-1	23/58											
BOT CHORD	1-4=-49/79, 3-4=-49	/79											
WEBS	2-4=-80/17												
NOTES													
 Unbalance this design 	ed roof live loads have n.	been considered for	r										
	CE 7 16: \/ult_115mph	(2 cocond quict)											

- 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) exterior 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

OF MISS E 0 SCOTT M. SEVIER NUMBER FC PE-2001018807 SSIONAL E

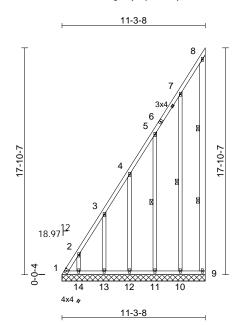
Page: 1

July 14,2022



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY9	Lay-In Gable	2	1	Job Reference (optional)	153060779

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:50 ID:ba9H4RgP67ytzejOdiDLiwyKbWM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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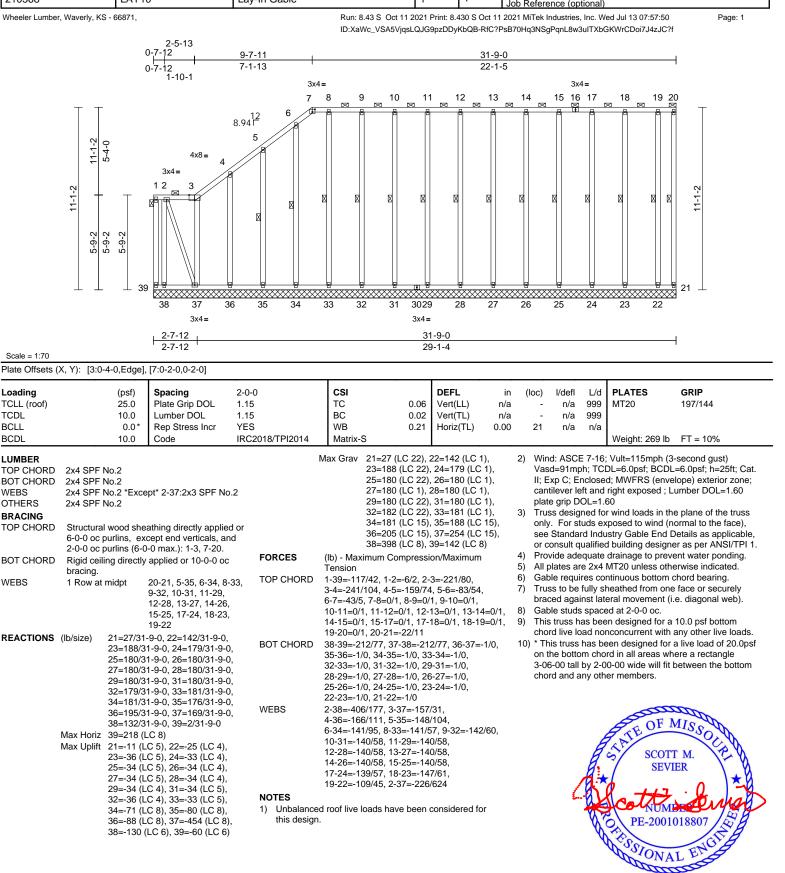
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.12 0.02 0.23	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S				-			Weight: 112 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS WEBS REACTIONS	2x4 SPF No.2 2x6 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-3-6 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt 2 Rows at 1/3 pts (lb/size) 1=27/11-3 10=177/1 12=178/1 14=156/1 Max Horiz 1=697 (LC Max Uplift 1=-470 (L 10=-224 (12=-235 (14=-206 (Max Grav 1=1066 (L) 10=246 (L) 12=250 (L) 14=219 (L)	applied or 10-0-0 oc 5-11, 7-10 8-9 3-8, 9=67/11-3-8, 1-3-8, 11=183/11-3-8, 1-3-8, 13=185/11-3-8, 1-3-8 C 8) C 6), 9=-95 (LC 8), (LC 8), 11=-244 (LC 8) (LC 8), 13=-244 (LC 8) (LC 8), 9=95 (LC 15), LC 15), 11=259 (LC 15) C 15), 13=259 (LC 15) LC 15)	3) 4) 5) 6) 7)), 8)),	Vasd=91mpH II; Exp C; En cantilever lef plate grip DC Truss design only. For stu see Standarc or consult qu All plates are Gable requiri Gable studs This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 9, 470 lb upli uplift at joint 11 and 2 This truss is International	7-16; Vult=115mp h; TCDL=6.0psf; Bi closed; MWFRS (et t and right exposed DL=1.60 ied for wind loads i ids exposed to wind d Industry Gable E ialified building des e 2x4 MT20 unless es continuous bott spaced at 2-0-0 oc is been designed fi ad nonconcurrent w has been designed fi ad connection constant and the second that a point 1, 206 lb 13, 235 lb uplift at joint designed in accord Residential Code nd referenced stan	CDL=6. envelope d; Lumt n the pl- d (norm nd Deta signer as otherwi or a 10. vith any for a liv s where l fit betv (by oth anding S uplift at joint 12, 10. sance w sections	Dpsf; h=25ft; (a) exterior zor ber DOL=1.60 ane of the tru: al to the face ills as applical s per ANSI/TF se indicated. d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 5 lb uplift at ji joint 14, 244 244 lb uplift : ith the 2018 : R502.11.1 a	ne; ss), ole, PI 1. ds. psf om obint lb at					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	LC	OAD CASE(S)	Standard							TATE OF A	MISSO
TOP CHORD		581/276, 5-7=-336/16	4,								A	SCOT SEVI	
BOT CHORD	1-14=-1/1, 13-14=-1, 11-12=-1/1, 10-11=-									;	10×	TTSI	-l
WEBS	2-14=-179/214, 3-13 4-12=-210/259, 5-11 7-10=-208/254	3=-219/270,								•	A P	NUM PE-2001	

NOTES

July 14,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY10	Lay-In Gable	1	1	Job Reference (optional)	153060780



July 14,2022



Continued on page 2 WARNING

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY10	Lay-In Gable	1	1	Job Reference (optional)	153060780

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 39, 11 lb uplift at joint 21, 130 lb uplift at joint 38, 454 lb uplift at joint 37, 88 lb uplift at joint 36, 80 lb uplift at joint 35, 71 lb uplift at joint 34, 33 lb uplift at joint 33, 36 lb uplift at joint 32, 34 lb uplift at joint 31, 34 lb uplift at joint 29, 34 lb uplift at joint 28, 34 lb uplift at joint 27, 34 lb uplift at joint 26, 34 lb uplift at joint 25, 33 lb uplift at joint 24, 36 lb uplift at joint 23 and 25 lb uplift at joint 22.

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

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

LOAD CASE(S) Standard

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MTek Industries, Inc. Wed Jul 13 07:57:50 ID:XaWc_VSA5VjqsLQJG9pzDDyKbQB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	LAY11	Lay-In Gable	1	1	Job Reference (optional)	153060781

5-10-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:51 ID:5upn9k6AH5RcF9Eb9MmZ7cyKbMI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

7-9-9 16-11-3 21-11-10 7-9-9 9-1-10 5-0-7 3x4 = 4x4 = 5 6 8 9 网 7 10 \bowtie \bowtie \bowtie 4 11 3 12 13 2 1<u>2</u> 8.94 2-0-15 1 0-0-4 14 \otimes 25 24 23 22 21 20 19 18 17 16 15 3x4 🍫 3x4 =

21-11-10

Scale = 1:43.7 Plate Offsets (X, Y): [5:0-2-0,0-2-0], [10:Edge,0-0-0]

	7, 1). [5.0	-2-0,0-2-0],	[10.Luge,0-0-0]											
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	-		CSI TC BC WB Matrix-S	0.08 0.04 0.08 =-142/13	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 103 lb	GRIP 197/144 FT = 10% others) of truss to
	6-0-0 oc 2-0-0 oc Rigid ceil bracing. (Ib/size) Max Horiz Max Uplift Max Grav	No.2 No.2 No.2 No.2 Il wood she purlins, ex purlins (6-0 ling directly 1=91/21 15=140/2 16=191/2 17=162/2 19=178/2 20=180/2 21=179/2 23=183/2 24=163 (L 18=-41 (L 23=-35 (LC 16=-83 (L 18=-41 (L 23=-35 (LC 15=169 (I 17=163 (I 17=163 (I 17=163 (I 17=163 (I 19=178 (I 21=179 (I 24=170 (I	1-11-10, 1-11-10, 1-11-10, 1-11-10, 1-11-10, 1-11-10, 1-11-10, 1-11-10, 25) 24), 15=-94 (LC 9), C 9), 17=-3 (LC 5), C 5), 19=-33 (LC 5), C 4), 21=-43 (LC 5), C 5), 24=-84 (LC 8),	nd or 10, 10, 11-10 16), 21), 2), 55,	BOT CHORD WEBS 1) Unbalance this design. 2) Wind: ASC Vasd=91m II; Exp C; E cantilever la right expos 3) Truss desig on consult c 4) Provide add 5) All plates a 6) Gable requ 7) Gable stud 8) This truss f chord live la 9) * This truss s on the botto 3-06-00 tall	1-2=-169/159, 2-3: 4-5=-90/127, 5-6=- 7-8=-71/125, 8-9=- 10-11=-99/129, 11 13-14=-38/12 1-25=-35/30, 24-22 21-23=-35/30, 24-22 21-23=-35/30, 24-22 21-23=-35/30, 17- 15-16=-35/31, 14- 2-25=-188/124, 3-2 4-23=-158/60, 6-2 ⁻ 8-19=-138/57, 9-18 11-16=-160/109, 1 d roof live loads have E 7-16; Vult=115mp ph; TCDL=6.0psf; B inclosed; MWFRS (u eft and right expose ed; Lumber DOL=1. gned for wind loads tuds exposed to win- tud sexposed to win- tud loads to building dese equate drainage to p re 2x4 MT20 unless ires continuous bott s spaced at 2-0-00 mas been designed pad nonconcurrent to has been designed by 2-00-00 wide wia any other members.	71/125, 71/125	6-7=-71/125, 9-10=-71/125, 9-10=-71/125, 9-10=-71/125, 9-10=-71/125, 9-10=-71/125, 9-10=-71, 9-1	5, 5/26, 30, /30, /31, /70, 3/27, r Cat. ne; d 60 ss), ble, PI 1. J upsf	bea 1, 1 upl 20, upl joir 11) Thi Inte R8 12) Gra or t bot	aring pla 100 lb up ift at join 33 lb up ift at join tt 15. s truss is ernationa 02.10.2 aphical p the orien tom cho CASE(S	te capa lift at ji t 23, 44 lift at ji t 17, 8 s desigg al Resiand reference purlin ref tation of rd.) Sta	able of withstandii oint 25, 84 lb uplii 3 lb uplift at joint 1 3 lb uplift at joint 1 3 lb uplift at joint 1 and in accordance dential Code sect erenced standard apresentation doe of the purlin along indard	ng 55 lb uplift at joint t at joint 24, 35 lb 21, 46 lb uplift at joint it at joint 18, 3 lb 16 and 94 lb uplift at se with the 2018 ions R502.11.1 and JANSI/TPI 1. s not depict the size the top and/or
													NA NA	L E 2022

BEFORE USE.

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



July 14,2022

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V1	Valley	1	1	Job Reference (optional)	153060782

3-11-13

3-11-13

Wheeler Lumber, Waverly, KS - 66871,

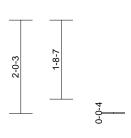
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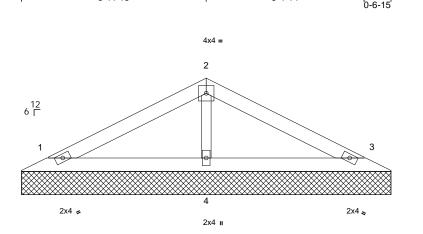
7-4-12

3-4-14



?f





7-11-11

Scale	- 1.24	۵
Scale	= 1.24	.9

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%
LUMBER			8)	Provide med	hanical connection	on (by oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2		,		e capable of with								
BOT CHORD	2x4 SPF No.2			1, 42 lb uplif	t at joint 3 and 4	lb uplift at	joint 4.						
OTHERS	2x3 SPF No.2		9)	This truss is	designed in acco	ordance w	ith the 2018						
BRACING					Residential Cod			and					
TOP CHORD	Structural wood she	eathing directly applie	d or	R802.10.2 a	nd referenced sta	andard AN	ISI/TPI 1.						
	6-0-0 oc purlins.	• • • • •	L	OAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	y applied or 10-0-0 oc	:										
REACTIONS	(lb/size) 1=160/7- 4=292/7-	11-11, 3=160/7-11-1 11-11	1,										
	Max Horiz 1=-30 (L	C 9)											
	Max Uplift 1=-36 (Le	C 8), 3=-42 (LC 9), 4=	-4										
	(LC 8)												
FORCES	(lb) - Maximum Cor Tension	npression/Maximum											
TOP CHORD	1-2=-77/43, 2-3=-77	7/30											
BOT CHORD	1-4=-1/34, 3-4=-1/3	4											
WEBS	2-4=-207/55												
NOTES													
1) Unholonor	d roof live loade hour	been considered for											

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

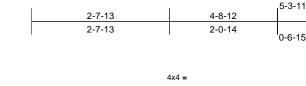


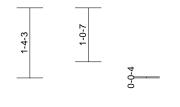


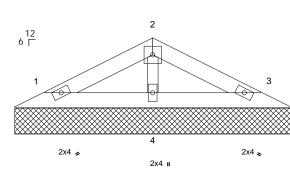
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V2	Valley	1	1	Job Reference (optional)	153060783

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:51 ID:NEsJj_pEncJvks_84H03P9yKbce-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







5-3-11

Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%
LUMBER			8)	Provide me	chanical conne	ction (by oth	ers) of truss	to		-			
TOP CHORD	2x4 SPF No.2		0)		te capable of wi								
BOT CHORD	2x4 SPF No.2				ift at joint 3 and			,					
OTHERS	2x3 SPF No.2		9)		s designed in a								
BRACING	2/0 0/ / //0/2		-,		al Residential C								
TOP CHORD	Structural wood she	athing directly applie	ed or	R802.10.2	and referenced	standard AN	ISI/TPI 1.						
	5-4-11 oc purlins.	at my arootry appin		AD CASE(S) Standard								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o			,								
	bracing.												
REACTIONS	(lb/size) 1=97/5-3-	-11, 3=97/5-3-11,											
	4=177/5-3												
	Max Horiz 1=-18 (LC	2 9)											
	Max Uplift 1=-22 (LC		=-2										
	(LC 8)												
FORCES	(lb) - Maximum Con	pression/Maximum											
	Tension												
TOP CHORD	1-2=-47/26, 2-3=-47	/19											
BOT CHORD	1-4=-1/21, 3-4=-1/2	1											
WEBS	2-4=-126/33												
NOTEO													

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 7)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.





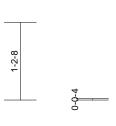
Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V3	Valley	1	1	Job Reference (optional)	153060784

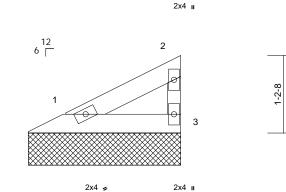
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2-4-7

Page: 1









2-4-7

Scale = 1:17.9

Scale = 1.17.9												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%
LUMBER			8) This truss is	s designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			al Residential Coc			and					
BOT CHORD	2x4 SPF No.2		R802.10.2	and referenced st	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S) Standard								
BRACING												
TOP CHORD	Structural wood she	0 7 11	ed or									
	2-4-15 oc purlins, e											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
		7, 3=75/2-4-7										
	Max Horiz 1=35 (LC Max Uplift 1=-10 (LC											
FORCES	(lb) - Maximum Com Tension	ipression/iviaximum										
TOP CHORD	1-2=-32/21, 2-3=-59	/29										
BOT CHORD	1-3=-12/9	20										
NOTES												
	E 7-16; Vult=115mph	(3-second gust)										
	ph; TCDL=6.0psf; BC		Cat.									
II; Exp C; E	nclosed; MWFRS (er	velope) exterior zor	ne;									
	eft and right exposed											
	ed; Lumber DOL=1.6											
	gned for wind loads in											
	studs exposed to wind ard Industry Gable En										000	alle
	qualified building desig										POF	MISCO
	ires continuous botto		11.							1	TATE OF	-050,0
	Is spaced at 4-0-0 oc.	in onora boaring.								A	NY and	New York
	has been designed for	r a 10.0 psf bottom								A	~/	M. YZY
chord live l	oad nonconcurrent wi	th any other live loa								- U .	/ SEV	TER \
6) * This truss	s has been designed f	or a live load of 20.0)psf							80		
	om chord in all areas									X X		·Xanda
	I by 2-00-00 wide will	fit between the botto	om						_	1-	contin	Sterre W

chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 19 lb uplift at joint 3.

SSIONAL EN July 14,2022

PE-2001018807



Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V4	Valley	1	1	Job Reference (optional)	153060785

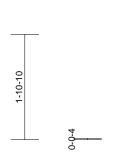
5-7-1

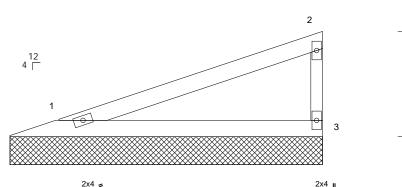
5-7-1

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:52 ID:fbnyBNud8mBv4x1U_FeiBdyKbcX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2x4 II

Scale = 1:20.6			I									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%
TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2			al Residential Cc and referenced s) Standard			and					
TOP CHORD	Structural wood she 5-7-13 oc purlins, e	• • • • •										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(lb/size) 1=207/5-7 Max Horiz 1=69 (LC	7-1, 3=207/5-7-1 5)										
	Max Uplift 1=-34 (LC	C 4), 3=-44 (LC 8)										
FORCES	(lb) - Maximum Com	pression/Maximum										

TOP CHORD 1-2=-61/41, 2-3=-161/72 BOT CHORD 1-3=-22/17

Tension

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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 34 lb uplift at joint 1 and 44 lb uplift at joint 3.

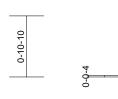
OF MISSO E SCOTT M. SEVIER NUMBER PE-2001018807 0 SSIONAL E July 14,2022

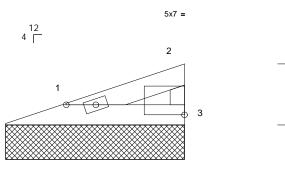


Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V5	Valley	1	1	Job Reference (optional)	153060786

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:52 ID:qbf_QeQVIOJGkFZjtm_uj5yKZMX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2-7-1

2x4 =

2-7-1

Scale = 1:16.7

Plate Offsets (X, Y): [2:Edge,0-1-12]

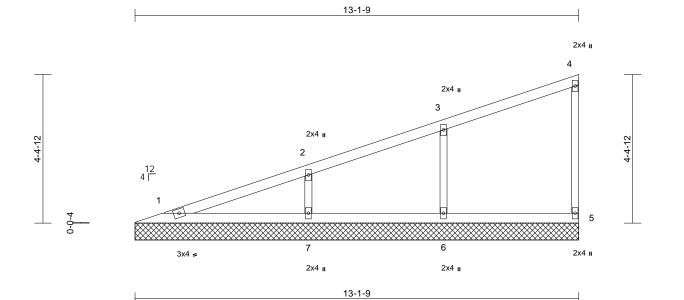
		-			-							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%
LUMBER			8) This truss is	designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2		Internationa	I Residential Code	e sections	8 R502.11.1 a	nd					
BOT CHORD	2x4 SPF No.2		R802.10.2 a	and referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	Standard								
BRACING												
TOP CHORD	 Structural wood she 2-7-13 oc purlins, e 		ed or									
BOT CHORD			с									
	bracing.											
REACTIONS	(lb/size) 1=72/2-7-	·1, 3=72/2-7-1										
	Max Horiz 1=24 (LC	5)										
	Max Uplift 1=-12 (LC	C 4), 3=-15 (LC 8)										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-2=-22/15, 2-3=-56	125										
BOT CHORD	,	/20										
NOTES												
	CE 7-16; Vult=115mph	(3-second qust)										
	mph; TCDL=6.0psf; BC		Cat.									
	Enclosed; MWFRS (er											
	r left and right exposed											
	osed; Lumber DOL=1.6											4 mar -
	signed for wind loads in studs exposed to wind										6000	ADDA
	dard Industry Gable En										ATE OF	MISS
	t qualified building desi									4	2.21	NOC
	quires continuous botto									H	SCOT	TM
4) Gable stu	ids spaced at 4-0-0 oc.	Ū								Ø.	SEV	
	s has been designed fo									14		
	load nonconcurrent wi	,								80	1	1 124
	ss has been designed f httom chord in all areas		Jpsf							N	a the	Lever)
	all by 2-00-00 wide will		h						-	The second	PE CON	ALADON AND
	d any other members.	in between the bott								N.	PE-2001	1018807
	nechanical connection	(by others) of truss t	0							Y	1 Per	1.SA
bearing p	late capable of withstar									8	C'SSIONA	LENA
1 and 15	lb uplift at joint 3.										Qui	
												y 14,2022
											Ju	y 14,2022



Job	Truss	Truss Type	Qty Ply		Boyer Res Roof	
210568	V6	Valley	1	1	Job Reference (optional)	153060787

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:52 ID:4AT5pPwWRhZUxPl3gNBPpGyKbcU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.1

Scale = 1:34.1									
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.2 BC 0.1 WB 0.0 Matrix-S 0.1	2 Vert(TL)	in (lo n/a n/a 0.00	c) l/defl - n/a - n/a 5 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 10%
BOT CHORD 6-0-0 oc purlins, exe Rigid ceiling directly bracing. REACTIONS (lb/size) 1=155/13-	-1-9, 5=146/13-1-9, -1-9, 7=417/13-1-9 C 5)	bearing plate 5, 89 lb uplif 8) This truss is International R802.10.2 a or LOAD CASE(S)	thanical connection (by e capable of withstandin t at joint 6 and 99 lb upli designed in accordance Residential Code secti nd referenced standard Standard	g 23 lb uplift at jo ft at joint 7. with the 2018 ons R502.11.1 ar	pint				
FORCES (lb) - Maximum Com	pression/Maximum								
Tension TOP CHORD 1-2=-143/49, 2-3=-1 4-5=-112/45 BOT CHORD 1-7=-57/42, 6-7=-57 WEBS 3-6=-295/136, 2-7=- NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0ps; Berl II; Exp C; Enclosed; MWFRS (erl cantilever left and right exposed right exposed; Lumber DOL=1.60 2) Truss designed for wind loads in only. For studs exposed to wind see Standard Industry Gable End or consult qualified building desig 3) Gable requires continuous bottor 4) Gable studs spaced at 4-0-0 oc. 5) This truss has been designed for chord live load nonconcurrent wi 6) * This truss has been designed for on the bottom chord in all areas v 3-06-00 tall by 2-00-00 wide will chord and any other members.	/42, 5-6=-57/42 316/149 (3-second gust) (DL=6.0psf; h=25ft; Ca velope) exterior zone ; end vertical left and 0 plate grip DOL=1.60 the plane of the truss I (normal to the face), d Details as applicable gner as per ANSI/TPI m chord bearing. r a 10.0 psf bottom tith any other live loads for a live load of 20.0p; where a rectangle	; 9, 1. 5,						STATE OF M SCOTT SEVIL NUME PE-20010 FC-SSIONAT	ER HER H18807

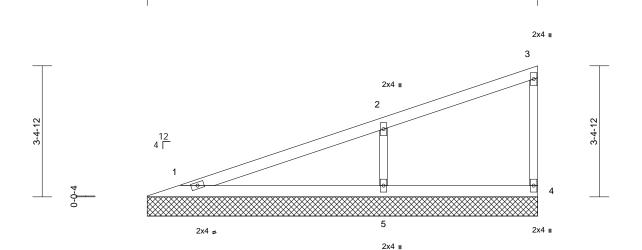


Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V7	Valley	1	1	Job Reference (optional)	153060788

10-1-9

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:52 ID:yxibfm_0Uw3wQ03qvDGL_6yKbcQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



10-1-9

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2	CSI TC BC WB 014 Matrix-S	0.34 0.19 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exu	athing directly applie	7) Prov bear 1, 17 8) This Inter R80. ed or LOAD C	vide mechanical conne ing plate capable of w 7 lb uplift at joint 4 and truss is designed in a mational Residential C 2.10.2 and referenced (ASE(S) Standard	rithstanding 1 I 123 lb uplift ccordance w code sections	15 lb uplift at j at joint 5. ith the 2018 s R502.11.1 a	oint				Troight 2018	
REACTIONS	bracing. (lb/size) 1=190/10 5=520/10 Max Horiz 1=136 (LC Max Uplift 1=-15 (LC (LC 8)	C 5)	=-123									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD WEBS	1-2=-102/64, 2-3=-8	,										
Vasd=91n II; Exp C; cantilever right expo 2) Truss desi only. For see Stand or consult	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 igned for wind loads in studs exposed to wind lard Industry Gable En- qualified building desig	DL=6.0psf; h=25ff; (ivelope) exterior zor ; end vertical left an 0 plate grip DDL=1. the plane of the trus (normal to the face) d Details as applicat gner as per ANSI/TF	ne; d 60 ss l, ole,								STATE OF J	MISSOLA T M. IER

3) Gable requires continuous bottom chord bearing. 4) Gable studs spaced at 4-0-0 oc. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

July 14,2022

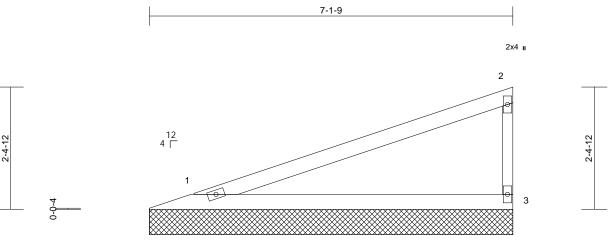


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SSIONAL

Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	150000700
210568	V8	Valley	1	1	Job Reference (optional)	153060789
Wheeler Lumber, Waverly, KS - 6	66871,				2021 MiTek Industries, Inc. Wed Jul 13 07:57:52 PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1



2x4 🚅

or



	7-1-9											
Scale = 1:22.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.75	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%
	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		Ínternationa	s designed in acc al Residential Co and referenced s i) Standard	ode sections	R502.11.1 a	and					

WEB3	213 366	NU.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied
	7-2-5 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	1=277/7-1-9, 3=277/7-1-9
	Max Horiz	1=92 (LC 7)
	Max Uplift	1=-45 (LC 4), 3=-59 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-81/5	5, 2-3=-215/96

TOP CHORD 1-2=-81/55 BOT CHORD 1-3=-29/22

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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

- 4) Gable studs spaced at 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 59 lb uplift at joint 3.





Job	Truss	Truss Type	Qty	Ply	Boyer Res Roof	
210568	V9	Valley	1	1	Job Reference (optional)	153060790

4-1-9

Wheeler Lumber, Waverly, KS - 66871,

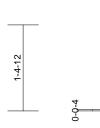
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Wed Jul 13 07:57:53 ID:n53svp2n4mq38xW_FUNmDNyKbcK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

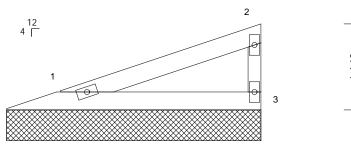
2x4 🛚

2x4 🛛



10







S

Scale = 1:18.7												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 10%
LUMBER			 This truss is 	designed in acco	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			I Residential Cod			nd					
BOT CHORD	2x4 SPF No.2		R802.10.2 a	and referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S	Standard								
BRACING			•	·								
TOP CHORD	Structural wood she	athing directly applie	ed or									
	4-2-5 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с									
	bracing.											
		1-9, 3=142/4-1-9										
	Max Horiz 1=47 (LC	/										
	Max Uplift 1=-23 (LC											
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=-42/28, 2-3=-11	0/49										
BOT CHORD	1-3=-15/11											
NOTES		(a										
	CE 7-16; Vult=115mph		0-4									
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er											
	left and right exposed											
	sed; Lumber DOL=1.6											
	igned for wind loads in											
only. For s	studs exposed to wind	(normal to the face)),									(m)
	ard Industry Gable En										O T	All and a second
	qualified building desi		기 1.								ALE OF	MISS D
	uires continuous botto									A	STATE OF	N.S.
	ds spaced at 4-0-0 oc.									A	SCOT	TM. CAN
	has been designed fo load nonconcurrent wi		do							Ľ.	SEV	TER V
	s has been designed f										-1	1+4

2x4 =

4-1-9

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 30 lb uplift at joint 3.



NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

