





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

Re: B220018 Lot 122 MN

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: I49888466 thru I49888505

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

Missouri COA: Engineering 001193

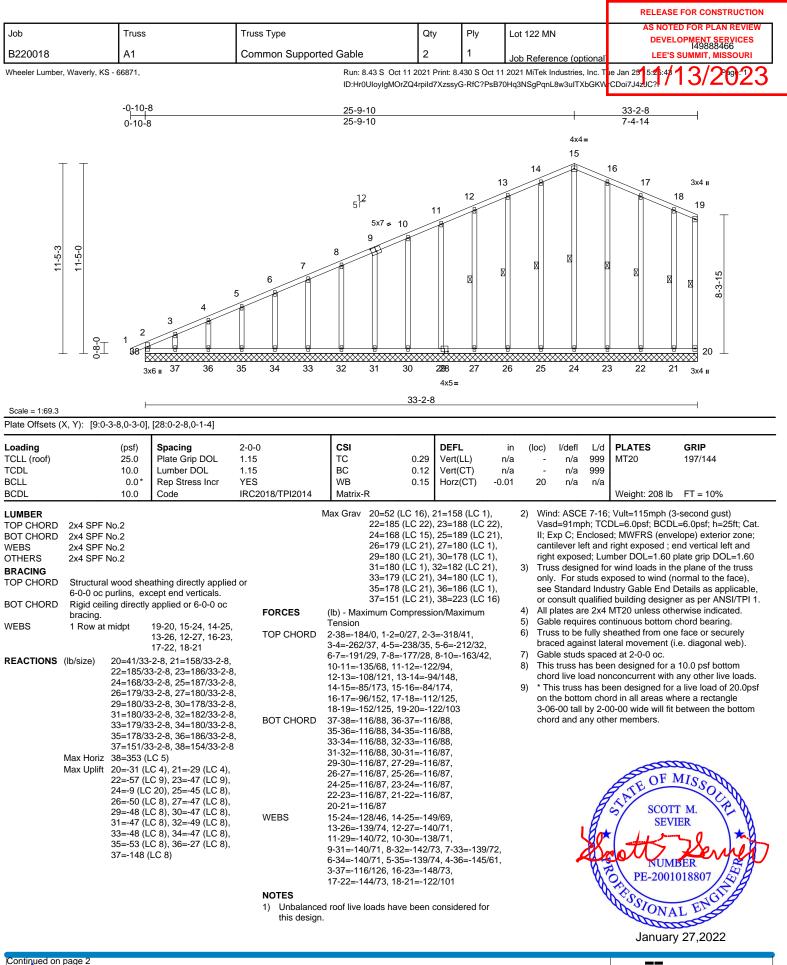


Sevier, Scott

January 27,2022

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 designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

,Engineer



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® 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

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 149888466
B220018	A1	Common Supported Gable	2	1	Job Reference (optional	
Wheeler Lumber, Waverly	y, KS - 66871,				1 2021 MiTek Industries, Inc. T 70Hq3NSgPqnL8w3uITXbGKW	

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 20, 9 lb uplift at joint 24, 45 lb uplift at joint 25, 50 lb uplift at joint 26, 47 lb uplift at joint 27, 48 lb uplift at joint 29, 47 lb uplift at joint 30, 47 lb uplift at joint 31, 49 lb uplift at joint 32, 48 lb uplift at joint 33, 47 lb uplift at joint 34, 53 lb uplift at joint 35, 27 lb uplift at joint 36, 148 lb uplift at joint 37, 47 lb uplift at joint 23, 57 lb uplift at joint 22 and 29 lb uplift at joint 21.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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														REL	EASE FOR CON	STRUCTION	
Job	-	Truss			Truss Ty	rpe		Qty	Р	ly	Lot 12	2 MN					ł
B220018		A2			Roof S	pecial		1	1		lah D		(antional)		EVELOPMENT S 149888 EE'S SUMMIT, M		l
	r, Waverly, KS - 66						Run: 8.43 S Oc	ct 11 2021 P	rint: 8.430	S Oct 1	-		(optional tries, Inc. T			20:02	
							ID:Hr0UloyIgM0									023	
		-0-1	10-8	6-11-7		15-	-3-12	18-11-	7 .	25	5-9-10		:	33-2-8			
		0-1	0-8	6-11-7			-4-5	3-7-1			-10-2			7-4-14	—		
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	⊥ ⊥ "]⊥	- 18			17			□16 ـ ⊥	4x5=		15	4x8	¹ 9=	<u>20 3x</u> 2 21	⊑ 5 79 ⊥ 3x4=		
			6x8 ≠		6x	3 =		8x12=					2x4 I		3,4-		
							4	4x8 II					27 ² 74				
			I	<u>6-11-7</u> 6-11-7			5-5-0 -5-9	18-11-			5-9-10 -10-2		7-6-0 -8-6	<u>32-11-0</u> 5-3-12	33-2-8 0-3-8		
Scale = 1:74.4	X, Y): [8:0-3-0,0	0 1 121		1 9] [16:0	1 2 9 Eda	0.0200	1 2 41						0-1-4				-
-	<u>, , , , , [0.0-3-0,0</u>	<u>,</u>	, [9.Euge,0-	1-0], [10.0	-	ej, [16.0-3-0,0	1				-			1			-
Loading TCLL (roof)		osf) 5.0	Spacing Plate Grip	DOL	2-0-0 1.15		TC	0.90	DEFL Vert(LL)	-0	in (l .26 16-	,	lefl L/d 99 360	PLATES MT20	GRIP 197/144		
TCDL	1	0.0	Lumber DC	DL	1.15		BC	0.79	Vert(CT)) -0	.50 16-	-17 >7	81 240				
BCLL BCDL		0.0*	Rep Stress Code	s Incr	YES IRC2018	/TPI2014	WB Matrix-S	0.86	Horz(CT Wind(LL	').16).14 14-		n/a n/a 99 240	Weight: 16	1 lb FT = 10%	6	
LUMBER					2)	Wind: ASCE	7-16; Vult=115m	nph (3-sec	ond aust)					. <u> </u>			-
TOP CHORD	2x4 SPF No.2 1.8E	*Excep	ot* 1-4:2x4 S	SPF 2100	F	Vasd=91mph	h; TCDL=6.0psf; l closed; MWFRS	BCDL=6.0	psf; h=25	5ft; Cat.							
BOT CHORD	2x4 SPF No.2					cantilever lef	t and right expos	ed ; end v	ertical lef	t							
WEBS	2x3 SPF No.2 No.2, 18-2:2x6			2x4 SPF	3)		mber DOL=1.60 p as been designed										
BRACING					4)		ad nonconcurrent has been designe										
TOP CHORD	Structural woo except end ve		thing directl	y applied	, יי	on the bottor	m chord in all area	as where a	rectang	le .							
BOT CHORD	Rigid ceiling d bracing.	lirectly a	applied or 8-	-1-8 oc			by 2-00-00 wide v by other members										
WEBS	1 Row at midp		15-17, 3-15,	5-14, 6-1	13, 5) 6)		er(s) for truss to t hanical connectio			ss to							
REACTIONS	(lb/size) 9=1		3-9 echanical,		-,	bearing plate	e capable of withs	standing 23									
	18= Max Horiz 18=	1556/0			7)	This truss is	218 lb uplift at join designed in acco	ordance wit									
	Max Uplift 9=-2	218 (LC	8), 18=-23				Residential Code nd referenced sta										
FORCES	Max Grav 9=1 (lb) - Maximun				LO	AD CASE(S)	Standard										
	Tension																
TOP CHORD	1-2=0/30, 2-3= 5-6=-1993/335		,	605/402,													
	7-8=-1094/214 9-11=-1578/25			5										55	Jam		
BOT CHORD	17-18=-484/79	97, 16-1	17=0/201, 1	5-16=0/15	56,								-	ETE?	F MISSO	D.	
	5-15=-85/678, 13-14=-379/17				33,								Ē	1221	COTT M.	N.S.	
WEBS	9-10=0/0 10-12=0/120,	3-17=-3	302/211.										a.B	*/	SEVIER	1-18	
	15-17=-664/24	498, 3-1	15=-392/130),									248		· 0	*	
	5-14=-964/273 6-13=-1265/33	34, 7-13	3=-5/448,										K	HCott	UMBER	Yes	
NOTES	2-17=-171/188	83, 8-13	3=-206/1266	6									N.		001018807	EB	
1) Unbalance	ed roof live loads	s have b	peen consid	ered for									Ŷ	23th	10	S A	
this desigr	1.													018810	NAL EN	4	
														-	uary 27.202	2	

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January 27,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

									RELEASE FOR CONSTRUCTION
Job		Truss		Truss Type		Qty	Ply	Lot 122 MN	
B220018		A3		Roof Special		2	1	Job Reference (optional	DEVELOPMENT SERVICES 149888468 LEE'S SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS - 6	6871,		•	Run: 8.43 S Oct 11 2	2021 Print: 8	.430 S Oct 11	2021 MiTek Industries, Inc. T	
		2-1-12			ID:Hr0UloyIgMOrZQ4	1rpild7Xzssy	/G-RfC?PsB7	0Hq3NSgPqnL8w3ulTXbGKW	
		-0-10-8	6-6-11	13-7-15	15-3-4 18-1	1-7	<u>25-9-</u> 6-10-	10 33-	
		0-10-8 2-1-12	4-4-15	7-1-4	'1-7-5' 3-8	-3	6-10-	2 7-4 5x7=	-14
								8	
-	ТТ								
					12 5Г 3x4≠	3x6 ∉ 7			5x7 =
					6x8 =	, T			9 T
	ဝုဝု				5				
11-9-4	<u>11-5-0</u> 10-7-0								
÷				4x5 =) (the second s		8-3-15
				T A A A A A A A A A A A A A A A A A A A					à
		3							
	0-10-0- 			22		17	24	16 1 6 2	$12 \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
-		4x8= 23			19 7x12	4x5=		4x8= 14 2	611 3x4=
		3x6 _{II} 8x8=						07.7.4	
		2-3-8	6-6-11	13-3-0	15-5-0 15-1-8 ₁ 18-1		25-10-		
Scale = 1:74.4		2-3-8	4-3-3	6-8-4	'1-10-8'' 3-6 0-3-8	6-7	6-11-	6 '1-7-2" 2-8-8 0-1-4	2-7-40-3-8
Plate Offsets (2	X, Y): [3:0-0-1	1,Edge], [5:0-4-0,Ed	ge], [9:0-3	3-0,0-1-12], [10:Edge,0	-1-8]				
Loading TCLL (roof)		(psf) Spacing 25.0 Plate Grip D		2-0-0 1.15	CSI TC C	0.86 Vert		in (loc) l/defl L/d .31 21-22 >999 360	PLATES GRIP MT20 197/144
TCDL		10.0 Lumber DO	L	1.15	BC 0	.81 Vert	(CT) -0	.56 21-22 >712 240	137/144
BCLL BCDL		0.0* Rep Stress 10.0 Code		YES IRC2018/TPI2014	WB 0 Matrix-S		()	.32 10 n/a n/a .24 21-22 >999 240	Weight: 204 lb FT = 10%
LUMBER				2) Wind: ASCE	7-16; Vult=115mph (3	B-second g	just)		•
TOP CHORD	2x6 SPF No. 1-5:2x8 SP [2 *Except* 8-9:2x4 S SS	PF No.2,		n; TCDL=6.0psf; BCD closed; MWFRS (env				
BOT CHORD		2 *Except* 3-18:2x6 2x3 SPF No.2	SPF 1650		t and right exposed ; e mber DOL=1.60 plate				
WEBS	2x3 SPF No.		No 2	All plates are	e 2x4 MT20 unless oth is been designed for a	erwise inc	licated.		
BRACING				chord live loa	ad nonconcurrent with has been designed for	any other	live loads.		
TOP CHORD		ood sheathing directly lins, except end verti		on the botton	n chord in all areas wl	nere a rect	angle		
BOT CHORD	Rigid ceiling bracing.	directly applied or 8-3	3-0 oc	chord and an	by 2-00-00 wide will fit by other members, wit	h BCDL =	10.0psf.		
WEBS JOINTS	1 Row at mid 1 Brace at J	· · · · · · · · · · · · · · · · · · ·	10	Provide mecl	er(s) for truss to truss hanical connection (by	y others) o	f truss to		
REACTIONS	(lb/size) 2=	=1554/0-3-8, 10=1480	/		e capable of withstand 18 lb uplift at joint 10.	ing 230 lb	uplift at		
	Max Horiz 2=	. ,			designed in accordan Residential Code sec				
		=-230 (LC 8), 10=-218 =1628 (LC 2), 10=173	. ,	R802.10.2 ar	nd referenced standar				
FORCES	(lb) - Maximu Tension	um Compression/Max	imum	LOAD CASE(S)	Standard				
TOP CHORD	1-2=0/12, 2-3	3=-777/0, 3-4=-4381/	700,						
	7-8=-1101/1	74, 6-7=-2041/335, 90, 8-9=-1100/211,							OF MIS
BOT CHORD		7/243, 9-12=-1494/25 22=-1008/4216,	1					4	STE OF MISSO
		6/4216, 18-21=-998/4 19-20=-8/25, 17-18=		4.				A	SCOTT M.
	16-17=-385/	1850, 15-16=-8/33, 13 , 11-14=0/0, 10-11=0	3-15=-8/3					la de	SEVIER
WEBS	3-23=0/67, 1	8-19=0/36, 6-18=-42	608,					R i	
	6-17=-863/2	, 4-22=0/278, 4-18=- 28, 7-17=-136/995,						R.	O. PE-2001018807
	7-16=-1318/ 9-16=-204/1	341, 8-16=-6/460, 11 [.] 288	13=0/61,					SA .	The Ist B
NOTES		de heve heen eenside	nod for						SIONAL ENGL
1) Unbalance this design		ds have been conside	ieu ior						Aller .
									January 27,2022



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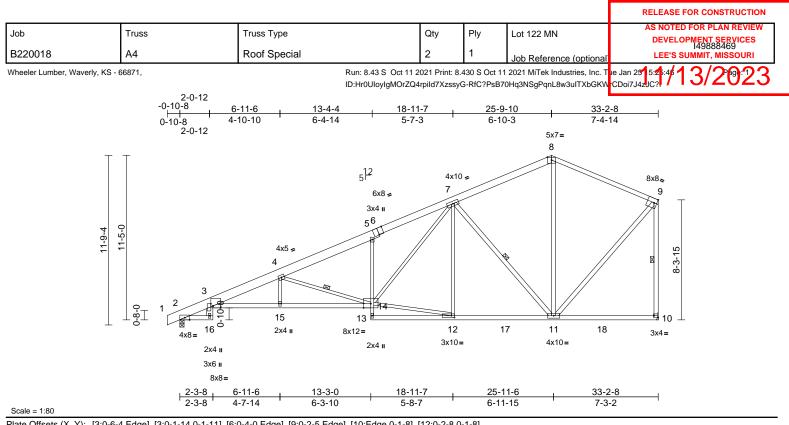


Plate Offsets ()	X, Y): [3:0-6-4,Edge],	, [3:0-1-14,0-1-11], [6	:0-4-0,Ed	ge], [9:0-2-5,Eo	dge], [10:Edge,0-	1-8], [12:0)-2-8,0-1-8]			-		1	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.86 0.73 0.65	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.53 0.27	(loc) 14-15 14-15 10 14-15	l/defl >999 >744 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 195 lb	GRIP 197/144 FT = 10%
LUMBER FOP CHORD BOT CHORD WEBS BRACING FOP CHORD BOT CHORD	11-7,11-8,10-9,11-9 Structural wood she 2-2-0 oc purlins, ex	ppt* 3-14:2x4 SPF 21 No.2 ppt* 16-3:2x6 SPF No :2x4 SPF No.2 athing directly applie	4) 00F 0.2, 5) 6) d or	chord live loa * This truss I on the bottor 3-06-00 tall I chord and a Refer to gird Provide mec bearing plate 2 and 42 lb to	as been designed ad nonconcurren nas been designe n chord in all are by 2-00-00 wide v ny other member er(s) for truss to hanical connection e capable of withs a capable of withs uplift at joint 10. designed in acco	t with any ed for a liv as where will fit betv s, with BC truss conr on (by oth standing 3	other live loa e load of 20. a rectangle veen the bott DL = 10.0ps nections. ers) of truss 8 lb uplift at	0psf om f. to					
WEBS REACTIONS	bracing. 1 Row at midpt	4-14, 7-11, 9-10 -3-8, 10=1480/ cal C 8) C 8), 10=-42 (LC 8)	LC		Residential Cod nd referenced sta Standard			and					
FORCES	(lb) - Maximum Com Tension 1-2=0/12, 2-3=-758/ 4-5=-2796/94, 5-7=- 8-9=-975/78, 9-10=-	'0, 3-4=-4038/147, 2735/165, 7-8=-978/	67,									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
BOT CHORD	2-16=0/0, 3-15=-355	5/3895, 14-15=-353/3 339/112, 12-13=-15/9	,									THE OF M	AISSO
WEBS	3-16=0/65, 4-15=-3/ 12-14=-103/1522, 7-	173, 4-14=-1479/156									Ho.	S SCOT	
this design 2) Wind: ASC	ed roof live loads have n. CE 7-16; Vult=115mph	(3-second gust)								4		PE-2001	

Wind: ASCE 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 exposed; Lumber DOL=1.60 plate grip DOL=1.60

January 27,2022

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									RELEAS	E FOR CONSTRUCTION
Job	Tr	uss	Truss Type		Qty	Ply	Lot 122 MM	1		ED FOR PLAN REVIEW
B220018	As	5	Common		1	1	lob Refere	nce (optional		OPMENT SERVICES 149888470 SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS - 6687	1,	•	Run: 8.43 S Oct 11 2			2021 MiTek li	ndustries, Inc. T	ue Jan 25 1 5: 25 :46	13/2023
				ID:Hr0UloyIgMOrZQ4	Irpild7Xzssy	G-RfC?PsB7	0Hq3NSgPqnL	.8w3ulTXbGKW	rCDoi7J4zJC?	10/2020
		-0-10-8 4-6-9	11-9-1	18-11-8	+		-9-10 10-1		<u>33-2-8</u> 7-4-14	1
		0-10-8 4-6-9	1-2-1	1-2-1		0-	10-1	4x8=	7-4-14	
								7		
	11-5-3 	3 1 2 15 10	3x4 =	5^{12} $3x4 = 5$ 4 13	40	x4 =	16	10		8
		6x8 ≠	∣4 ≺8=	13 3x4=	12 1 ⁻ 3x6=	1	16	10 4x8=	1/ 3:	×4=
					4x	4=				
		<u>4-6-9</u> 4-6-9	<u>+ 11-9-1</u> 7-2-7	<u> </u>			<u>-9-10</u> 10-1		<u>33-2-8</u> 7-4-14	4
Scale = $1:74.4$ Plate Offsets (X Y)· [8·0-3-0 0-	1-12], [9:Edge,0-1-8], [14	1·0-2-8 0-2-0] [15·0-3-0	0-2-41						
Loading			2-0-0	CSI	DEF		in (loc)	l/defl L/d	PLATES	GRIP
TCLL (roof)	(ps 25.	0 Plate Grip DOL	1.15	TC 0	.91 Vert	(LL) -0	.19 13-14	>999 360	MT20	197/144
TCDL BCLL	10. 0.		1.15 YES		.90 Vert .74 Horz	. ,	.35 13-14 .08 9	>999 240 n/a n/a		
BCDL	10.	0 Code	IRC2018/TPI2014	Matrix-S	Wind		.09 13-14	>999 240	Weight: 154 lb	FT = 10%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m	2x4 SPF No.2 2x3 SPF No.2 *I 10-6,10-7,9-8,10 SPF No.2 Structural wood except end verti Rigid ceiling dire bracing. 1 Row at midpt (lb/size) 9=147 15=14 Max Horiz 15=24 Max Uplift 9=-42 Max Grav 9=160 (lb) - Maximum 1-2=0/30, 2-3=-7 4-6=-1789/67, 6 2-15=-1524/56, 14-15=-233/498 11-13=-195/228 9-10=-3/21 3-14=-131/81, 3 4-11=-880/98, 6 7-10=0/381, 2-1 ed roof live loads h b.	 b)-8:2x4 SPF No.2, 15-2:3 sheathing directly applied cals. b) extra paplied or 10-0-0 or 4-11, 6-10, 8-9 76/ Mechanical, 556/0-3-8 55 (LC 8) b) (LC 8), 15=-38 (LC 8) b) (LC 8), 15=-38 (LC 8) c) (LC 2), 15=1607 (LC Compression/Maximum 2911/57, 3-4=-2551/59, -7=-985/69, 7-8=-982/80 	chord live ld 4) * This truss on the botto 2x6 3-06-00 tall chord and a 5) Refer to gir 6) Provide me bearing pla 15 and 42 l 7) This truss is Internationa R802.10.2 ; LOAD CASE(S 2) 9, 2, 132, 219 7 Cat.	as been designed for a bad nonconcurrent with has been designed for more chord in all areas with by 2-00-00 wide will fit any other members, with der(s) for truss to truss to truss to chanical connection (by the capable of withstand by uplift at joint 9. Is designed in accordan all Residential Code sect and referenced standard is standard in the standard in the standard in the standard is standard in the sta	any other a live load here a rect between th h BCDL = connectior / others) of ing 38 lb u ce with the tions R502	live loads. I of 20.0psf angle he bottom 10.0psf. ns. f truss to plift at joint 2018 2.11.1 and			STATE OF J SCOT SEV OF PE-2001	ler *
	exposed ; end vert plate grip DOL=1	ical left exposed; Lumbe .60	r					Ň	SSIONA	IL ENGLASS

ponent 16023 Swingley Ridge Rd Chesterfield, MO 63017

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									RELEASE	FOR CONSTRUCTION
Job	Trus	s	Truss Type		Qty	Ply	Lot 122 MN	1		D FOR PLAN REVIEW
B220018	B1		Roof Special		1	1	loh Refere	nce (optional)		PMENT SERVICES 149888471 UMMIT, MISSOURI
Wheeler Lumber	, Waverly, KS - 66871,			Run: 8.43 S Oct 11 2			2021 MiTek Ir	ndustries, Inc. T		3/2023
				ID:Hr0UloyIgMOrZQ4	rpild7XzssyG-	-RfC?PsB7	0Hq3NSgPqnL	8w3ulTXbGKW	CDoi7J4zJC?	0,2020
		-0-10-8 4-6-12 0-10-8 4-6-12	10-0-5 5-5-9	<u>18-11-7</u> 8-11-1			9-10 10-3		3-2-8 -4-14	
		0-10-8 1 0 12	000	0.11.1				5x7=		
	— —							7		
		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 13 15 3x4=	0 4 0 4 0 5 1 1 1 1 1 1	3x4 6 12 3x6=	1	3x4=		5x7= 8 9 18 3x4 II	7-3-15
			2x4 II	5x7=			3	8x10=		
		4-6-12	9-11-8 10-3-	^{3x4} " -8 18-11-7		25-	9-10	. 33	3-2-8	
Scale = 1:76.2		4-6-12	5-4-12 0-4-	0 8-7-15			10-3		-4-14	
	X, Y): [4:0-1-8,0-2-7	12], [9:Edge,0-2-8], [12	0-2-8,0-1-8]							
		Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code Code	chord live lo .2 4) * This truss .2 on the botto	BC 0	any other liv a live load o here a rectar	L) -0. T) -0. CT) -0. LL) -0. ttom ve loads. of 20.0psf ngle	in (loc) 18 12-13 36 12-13 02 9 04 9-10	I/defl L/d >999 360 >779 240 n/a n/a >999 240	MT20	GRIP 197/144 FT = 10%
TOP CHORD BOT CHORD WEBS REACTIONS	except end vertica Rigid ceiling direct bracing. 1 Row at midpt (lb/size) 9=1036, 13=126 15=355, Max Horiz 16=336 Max Uplift 9=-109 14=-52 Max Grav 9=1134 14=120 16=294	ly applied or 10-0-0 oc 6-10, 7-10, 8-9 / Mechanical, 7/9-11-8, 14=84/9-11-8 (LC 5), 13=-274 (LC 8) (LC 5), 16=-52 (LC 4) (LC 2), 13=1294 (LC 2 (LC 2), 15=422 (LC 16 (LC 1)	 chord and a 7) Refer to gird 6) Bearing at jousing ANSI/ designer shot 7) Provide mean 7) Provide mean 74 Ibulic 16, 274 Ibulic 16, 274 Ibulic 10 uplift at journame 8) This truss is Internationa 7802.10.2 a 7) CAD CASE(S) 	ny other members, with ler(s) for truss to truss opint(s) 13 considers para TPI 1 angle to grain for ould verify capacity of th chanical connection (by e capable of withstandi plift at joint 13, 52 lb up int 9. designed in accordand I Residential Code sect and referenced standard	n BCDL = 10 connections rallel to grain mula. Build pearing surfar or others) of ti ng 52 lb upli lift at joint 1- ce with the 2 cions R502.1	0.0psf. n value ling ace. russ to ift at joint 4 and 109 2018 1.1 and				
FORCES	Tension 1-2=0/30, 2-3=-20	9/23, 3-4=-250/77, 7=-714/169, 7-8=-688/ [,]	186,							
BOT CHORD	2-16=-264/76, 8-9 15-16=-227/99, 14 4-13=-1182/325, 1 10-12=-120/912, 9	-15=-227/99, 13-14=0/ 2-13=-63/115,	0,					E	TATE OF M	N S S
WEBS	3-14=-105/198, 4- 6-12=-119/163, 6-	12=-61/871,	56						SCOTT SEVIE	
NOTES									cott s	Server
this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever	n. CE 7-16; Vult=115mp nph; TCDL=6.0psf; B Enclosed; MWFRS (left and right expose	ve been considered for bh (3-second gust) ICDL=6.0psf; h=25ft; C envelope) exterior zone d; end vertical left and .60 plate grip DOL=1.6	2;						NUMB PE-20010 SIONAL January	18807



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT_SERVICES
B220018	B2	Roof Special	3	1	Job Reference (optional	
Wheeler Lumber, Waver	ly, KS - 66871,				1 2021 MiTek Industries, Inc. T	le Jan 25 5:25:4/1 2 / Pag: D 2
		ID:Hr0	UloyIgMOrZQ4rpild7Xzss	yG-RfC?PsB7	0Hq3NSgPqnL8w3ulTXbGKW	
	-0-10-8 4-6-12 0-10-8 4-6-12	9-10-13 5-4-2	<u>18-11-8</u> 9-0-10	25- 6-		<u>3-2-8</u> -4-14
	0-10-8 4012	542	3 0 10	0	4x8=	
-	гт				7	
			3	8x4 =		5x7 .
		1 51	² 6			8
			3x10 =			
ကို	0	5x12 =	5		×	
11-5-3	11-5-0	4			*	7-3-15
		3x4 =				2
		3				
	ο ₋ 1 ²			-		y
-		<u>— da</u> 14 Ļ⊥		2 1 0=	17 11 10 3x4=	18 3x4 II
	6x8 ≉	3x4= M18SHS 12	<18 =		3x10=	
		3x4 =				
	<u>4-6-12</u> 4-6-12	9-11-8 10-0-0 5-4-12 0-0-8	<u>18-11-8</u> 8-11-8			<u>3-2-8</u> -4-14
Scale = $1:75.6$	[8:0-3-0,0-1-12], [12:0-2-8,0-1-{	000	0110	0		
	- · · · · ·					
Loading TCLL (roof)	(psf) Spacing 25.0 Plate Grip DO	2-0-0 CSI _ 1.15 TC	0.91 Ver		in (loc) l/defl L/d .18 12-13 >999 360	PLATES GRIP MT20 197/144
TCDL BCLL	10.0 Lumber DOL 0.0* Rep Stress Inc	1.15 BC rr YES WB		. ,	.35 12-13 >806 240 .01 9 n/a n/a	M18SHS 197/144
BCDL	10.0 Code	IRC2018/TPI2014 Matrix-			.18 12-13 >999 240	Weight: 147 lb FT = 10%
LUMBER TOP CHORD 2x4 S	PF No.2	 This truss has been d chord live load nonco 				
BOT CHORD 2x4 S	SPF No.2 *Except* 14-4:2x6 SP	DSS 5) * This truss has been	designed for a live loa	d of 20.0psf		
	SPF No.2 *Except* 16-2:2x6 SP x4 SPF No.2	3-06-00 tall by 2-00-0	0 wide will fit between	the bottom		
BRACING TOP CHORD Struc	tural wood sheathing directly a	chord and any other r oplied or 6) WARNING: Required	bearing size at joint(s)			
2-2-0	oc purlins, except end vertical ceiling directly applied or 4-6-6	s. Than input bearing siz		ins.		
braci		 Provide mechanical c bearing plate capable 				
REACTIONS (lb/size	e) 9=843/ Mechanical, 13=2	joint 13 and 217 lb up 190/0-3-8 9) This truss is designed		e 2018		
	oriz 13=255 (LC 8) plift 9=-217 (LC 5), 13=-388 (L	C 4) International Residen		2.11.1 and		
	rav 9=943 (LC 2), 13=2258 (L Maximum Compression/Maxim	C 2) LOAD CASE(S) Standa				
Tensi	ion					
4-6=-)/30, 2-3=-114/554, 3-4=-218/1: 690/215, 6-7=-562/173, 7-8=-5					
BOT CHORD 15-16	10/64, 8-9=-792/193 6=-11/42, 14-15=-453/124,					
	4=-72/338, 4-13=-1794/279, 3=-1130/130, 10-12=-215/541,					ALLER
	5/25 59/264, 3-14=-676/147,					SE OF MISSO
4-12=	=-268/1788, 6-12=-460/88, =-180/153, 7-10=-140/126,				L.	AN CAN
2-15=	-487/114, 8-10=-148/580				.H	SCOTT M. SEVIER
,	live loads have been considere	d for			407	t 1 . 0. 12
this design. 2) Wind: ASCE 7-16	; Vult=115mph (3-second gust)					bet numerical
	DL=6.0psf; BCDL=6.0psf; h=25 ed; MWFRS (envelope); cantile				Ø.	PE-2001018807
exposed ; end ve	rtical left exposed; porch left an DOL=1.60 plate grip DOL=1.60	d right			X X	A PSSI ENGINE
	20 plates unless otherwise indic					STONAL ENCE
						January 27,2022

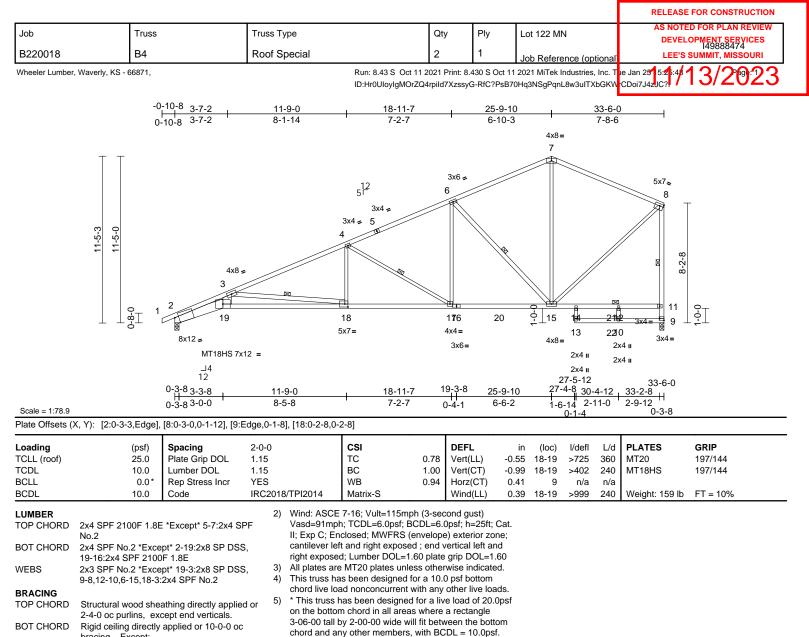


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							RELEASE FOR CONSTRUCTION
Job	Trus	s	Truss Type	Qty	Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
B220018	B3		Roof Special	4	1	Job Reference (option	DEVELOPMENT SERVICES 149888473 LEE'S SUMMIT, MISSOURI
Wheeler Lumber,	, Waverly, KS - 66871,					1 2021 MiTek Industries, Inc	. Tue Jan 25 5:25:4 1 ス/アญ: つく
			ID:Hr0	UloyIgMOrZQ4rpiId7Xz	ssyG-RfC?PsB	70Hq3NSgPqnL8w3ulTXbGi	KWrCDoi7J4zUC?
		-0-10-8 <u>4-6-12</u> 0-10-8 4-6-12	9-10-13	<u>18-11-8</u> 9-0-10		-9-10 10-2	<u>33-6-0</u> 7-8-6
		0100				4x8=	
	тт					7	
					3x4 =		×
			12 5F	6			5x7= 8
				3x10 =			
	5-0		5x12 =	5		x	
	11-5-3		4			*	⊠ 2-2-8
		3	3x4 =	~			⊢ ⊢
		3					
	0 ₇	1 2			<u> </u>		
		6x8 = 1	5 3x6=		12 ´ 10=	17 11 10 3x4=	18 ⊠ 3x4 ∎
		0.00	x4= M18SHS 12x	18 =		3x10=	
			3x4=				
		<u>4-6-12</u> 4-6-12	9-11-8 10-0-0 5-4-13 0-0-8	<u>18-11-8</u> 8-11-8		- <u>9-10</u> 10-2	<u>33-6-0</u> 7-8-6
$\frac{\text{Scale} = 1:75.6}{\text{Plate Offsets ()}}$	X. Y): [9:Edge.0-2-	8], [12:0-2-8,0-1-8], [16					
· · · · · ·		1				in (loc) (defi l	/d PLATES GRIP
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 CSI 1.15 TC	0.99 V	. ,).16 9-10 >999 36	60 MT20 197/144
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.15 BC YES WB		. ,).28 12-13 >999 24).01 9 n/a n	40 M18SHS 197/144 /a
BCDL	10.0	Code	IRC2018/TPI2014 Matrix-S				40 Weight: 146 lb FT = 10%
LUMBER	2x4 SPF No.2		 This truss has been de chord live load noncor 				
	2x4 SPF No.2 *Ex	cept* 14-4:2x6 SP DS		designed for a live lo	ad of 20.0ps	f	
WEBS	13-11:2x4 SPF 21 2x3 SPF No.2 *Ex	cept* 16-2:2x6 SPF No	0.2 3-06-00 tall by 2-00-00) wide will fit betwee	n the bottom		
BRACING TOP CHORD	Structural wood sl	neathing directly applie	chord and any other n d, 6) Provide mechanical co	onnection (by others)	of truss to		
BOT CHORD	except end vertica		bearing plate capable joint 13 and 295 lb up		lb uplift at		
WEBS	bracing.		 This truss is designed International Resident 				
REACTIONS	1 Row at midpt (lb/size) 9=861/0	7-10, 8-9, 6-10)-3-8, 13=2202/0-3-8	R802.10.2 and referer	nced standard ANSI/			
	Max Horiz 13=371 Max Uplift 9=-295	(LC 8) (LC 5), 13=-591 (LC 4)	LOAD CASE(S) Standa	u			
I	Max Grav 9=962 (LC 2), 13=2271 (LC 2)					
FORCES	Tension	ompression/Maximum					
TOP CHORD		4/554, 3-4=-322/1222, =-587/235, 7-8=-565/2	24,				
BOT CHORD	8-9=-809/270, 2-1 15-16=-17/41, 14-						
	13-14=-99/338, 4- 12-13=-1127/189,	13=-1805/452,					
WEBS	9-10=-5/17 7-10=-145/134, 3-						SE OF MISSO
WEDS	6-12=-468/153, 6-	10=-169/166,					THE SOL
	2-15=-487/174, 8- 4-12=-401/1799, 3					F	SCOTT M.
NOTES	d roof live loads hav	ve been considered for					
this design	l.						fotto Server
Vasd=91m		BCDL=6.0psf; h=25ft; C				X X	NUMBER PE-2001018807
cantilever l	left exposed ; end v	envelope) exterior zon ertical left exposed; po					ATA ATA
		DOL=1.60 plate grip					SIONAL ENGL
DOL=1.60							
		ess otherwise indicated	l.				January 27,2022

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Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 253 lb uplift at

This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

joint 2 and 196 lb uplift at joint 9.

LOAD CASE(S) Standard

	bracing, Except:
	8-1-3 oc bracing: 2-19
	1-4-12 oc bracing: 18-19.
WEBS	1 Row at midpt 8-9, 6-15, 3-18, 4-17
JOINTS	1 Brace at Jt(s): 12
REACTIONS	(lb/size) 2=1567/0-3-8, 9=1493/0-3-8
	Max Horiz 2=341 (LC 7)
	Max Uplift 2=-253 (LC 8), 9=-196 (LC 8)
	Max Grav 2=1627 (LC 2), 9=1743 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/9, 2-3=-7667/1393, 3-4=-3256/500,
	4-6=-2094/353, 6-7=-1140/238,
	7-8=-1143/257, 9-11=-1608/223,
	8-11=-1489/244
BOT CHORD	2-19=-1489/7107, 18-19=-1295/5917,
	17-18=-526/2958, 15-17=-254/1851,
	14-15=-130/100, 12-14=-130/100,

14-15=-130/100, 12-14=-130/100, 11-12=-130/100, 10-13=0/0, 9-10=0/0 WEBS 13-14=0/116, 3-19=-367/2419, 7-15=-46/483, 8-15=-164/1283, 10-12=0/65, 6-15=-1279/330, 3-18=-2974/773, 4-18=0/595, 4-17=-1286/316, 6-17=-77/899

NOTES

 Unbalanced roof live loads have been considered for this design.

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6)

7)

8)





									RELEASE	FOR CONSTRUCTION	
Job	Truss		Truss Type		Qty	Ply	Lot 122 M	N		D FOR PLAN REVIEW]
B220018	B5		Roof Special		2	1	Job Refere	ence (optional)		OPMENT SERVICES 149888475 SUMMIT, MISSOURI	
Wheeler Lumber	r, Waverly, KS - 66871,			Run: 8.43 S Oct 1 ID:Hr0UloyIgMOrZ			1 2021 MiTek I	ndustries, Inc. T		13/2023	-
		-0-10-8 3-6-4 	<u>11-9-1</u> 8-2-13	<u>18-11-8</u> 7-2-7		<u>25-9-1</u> 6-10-1		<u>33-6-0</u> 7-8-6	1		
		4x10 4x8 = 3 1 1 1 16 8x12 = MT18HS 7x		5^{12} 3x4 = 5 4 4 15 5x7 =	3x6 6 143 4x5=	17	7 7 110 2x4 II 8x12=		5x7 × 8 9 9 3x6=		
Scale = 1:80.8 Plate Offsets (2	X, Y): [2:0-1-7,0-4-1	4 12 0- <u>3-8 3-3-8</u> 0-3-8 3-0-0 4], [8:0-3-0,0-1-12], [12	<u>11-9-1</u> 8-5-9 ::0-4-12,0-2-8], [13:0-2:	18-11-8 7-2-7	19-3- 0-4- 0-2-8]		3x6 II 25-9-10 25-7-14 	<u>33-6-0</u> 7-8-6			-
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 IRC2018/TPI2014		0.78 Ve 0.87 Ve 0.83 Ho	ert(CT) -0 orz(CT) 0	in (loc) 0.53 15-16 0.96 15-16 0.35 9 0.41 15-16	l/defl L/d >747 360 >413 240 n/a n/a >983 240	PLATES MT20 MT18HS Weight: 161 lb	GRIP 197/144 197/144 FT = 10%	
	No.2 2x4 SPF No.2 *Exc 16-13:2x4 SPF 240 2x3 SPF No.2 *Exc 15-3,12-6,9-8,10-7: Structural wood sh 2-4-4 oc purlins, e. Rigid ceiling directl bracing. 1 Row at midpt 2 Rows at 1/3 pts (lb/size) 2=1568/ Max Horiz 2=380 (L Max Uplift 2=-233 (Max Grav 2=1617 ((lb) - Maximum Con Tension 1-2=0/9, 2-3=-7522 4-6=-2073/317, 6-7	ept* 16-3:2x6 SPF No. 2x4 SPF No.2 eathing directly applied xcept end verticals. y applied or 6-7-5 oc 4-14, 6-12, 8-9 3-15 0-3-8, 9=1498/0-3-8 .C 8) LC 8), 9=-211 (LC 8) (LC 2), 9=1573 (LC 2) mpression/Maximum 2/1515, 3-4=-3223/481, '=-1103/208,	 F Vasd=91mp II; Exp C; Ei cantilever le exposed; Lu 2, 3) All plates ar 4) This truss h chord live lo or 5) * This truss on the botto 3-06-00 tall chord and a 6) Bearing at ju using ANSI/ designer sh 7) Provide men bearing plat joint 2 and 2 8) This truss is Internationa R802.10.2 at 	E 7-16; Vult=115mph th; TCDL=6.0psf; BC nclosed; MWFRS (en ff and right exposed umber DOL=1.60 plat e MT20 plates unless as been designed for bad nonconcurrent wi has been designed for m chord in all areas by 2-00-00 wide will iny other members, w oint(s) 2 considers part TPI 1 angle to grain 1 ould verify capacity o chanical connection (the capable of withstar 211 lb uplift at joint 9. s designed in accorda Il Residential Code se and referenced standa) Standard	DL=6.0psf velope) e: ; end vertii e grip DO s otherwis: a 10.0 ps th any otho or a live lo where a re fit between ith BCDL rrallel to gi ormula. E f bearing : by others) ding 233 nce with t ections R5	; h=25ft; Cat. tterior zone; cal left L=1.60 e indicated. f bottom er live loads. ad of 20.0psf ctangle h the bottom = 10.0psf. rain value Suilding suiface. of truss to b uplift at he 2018 02.11.1 and					
BOT CHORD	7-8=-1099/225, 8-9 2-16=-1766/6967, 14-15=-667/2927, 10-11=0/146, 9-10=	=-1433/258 15-16=-1566/5984, 12-14=-379/1831,							TE OF M	AISSO	

 $\begin{array}{c} 10-11=0/146, 9-10=0/243\\ \mbox{WEBS} & 11-12=-510/0, 3-16=-438/2307,\\ 3-15=-3071/903, 4-15=0/582,\\ 4-14=-1274/335, 6-14=-76/943,\\ 6-12=-1316/326, 10-12=0/686, 7-12=-18/450,\\ 9-12=-233/0, 8-12=-212/1242 \end{array}$

NOTES

 Unbalanced roof live loads have been considered for this design. SCOTT M. SEVIER PE-2001018807

January 27,2022

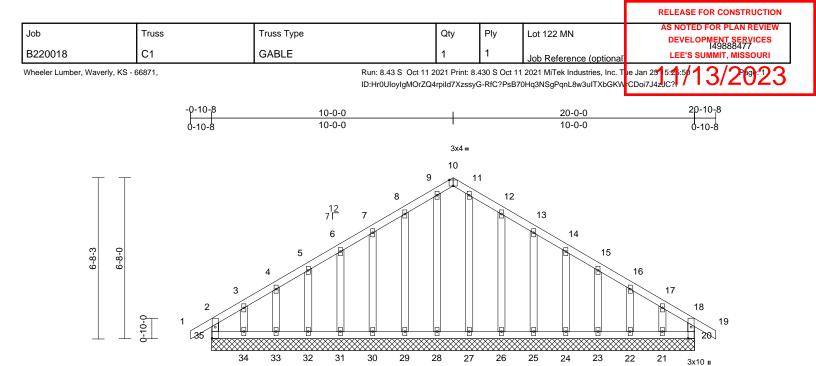


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									RELEASE FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Lot 122 MN		AS NOTED FOR PLAN REVIEW
B220018	B6		Roof Special		1	1	Job Reference	ontional	DEVELOPMENT SERVICES 149888476 LEE'S SUMMIT, MISSOURI
Wheeler Lumber	, Waverly, KS - 66871,			Run: 8.43 S Oct 11			11 2021 MiTek Indus	stries, Inc. T	
				ID:Hr0UloyIgMOrZQ	4rpild7Xzs	ssyG-RfC?PsI	B70Hq3NSgPqnL8w3 27-10-4	BulTXbGKW	
		-0-10-8 3-6-4	11-9-0	18-11-8		25-0-4	25-9-10	33-6-0	
		0-10-8 3-6-4	8-2-12	7-2-7		6-0-12	0-9-6 2-0-10 _{4x8 u}	5-7-12	
							2x4 II		
	тт						7 ⁸ ^{2x4}	I	
				10	3x4 🚅				5x7 _≈
				5 ¹²	6				
				3x4 = 3x4 = 5				/	
	<u>11-5-3</u> 11-5-0			4		- A			
		4x10							8-7-8 8-7
		3						3	
	Q	1 2	X			-0-0-8	15		
		19		18 17 5x7= 4x			⊥ 2x4 ⊫ 12 🖳		
		5x12 ≠ MT18HS 7	′x12 =		5x12=		5x12= 5x12=		4x4=
		4 12					2x4	ı	
		0-3-83-3-8	11-9-0	18-11-8		25-1-8	27-8-8	33-6-0	
Scale = 1:84.5		0-3-83-0-0	8-5-8	7-2-7	•	6-2-0	2-7-0	5-9-8	·
Plate Offsets (2	X, Y): [2:0-3-15,0-1-6	6], [18:0-2-8,0-2-8]							
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC		E FL ert(LL) ·	()	defl L/d 369 360	PLATES GRIP MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	.91 Ve	ert(CT) ·	-0.91 18-19 >4	438 240	MT18HS 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB (Matrix-S		orz(CT) ind(LL)		n/a n/a 938 240	Weight: 177 lb FT = 10%
LUMBER			· · · · · · ·	CE 7-16; Vult=115mph (
TOP CHORD	2x4 SPF No.2 *Exce 1.8E	ept* 1-5:2x4 SPF 210	0.	nph; TCDL=6.0psf; BCD Enclosed; MWFRS (env					
BOT CHORD		ept* 2-19:2x8 SP DSS 0F 1.8E, 15-7:2x3 SP	·,	left and right exposed ; _umber DOL=1.60 plate					
WEBS	No.2	ept* 19-3:2x6 SPF No	 All plates a 	are MT20 plates unless has been designed for a					
	18-3,11-10:2x4 SPF		chord live	load nonconcurrent with s has been designed for	any oth	er live loads			
BRACING TOP CHORD	Structural wood she	athing directly applie	d or on the bot	tom chord in all areas w	nere a re	ctangle			
BOT CHORD	2-2-0 oc purlins, ex Rigid ceiling directly	cept end verticals. applied or 6-2-13 oc	chord and	II by 2-00-00 wide will fit any other members.			1		
1 Row at midp	bracing. Except:		6) Bearing at	joint(s) 2 considers par I/TPI 1 angle to grain fo					
WEBS	1 Row at midpt	3-18, 4-16, 6-14, 8-1		hould verify capacity of echanical connection (b					
REACTIONS	(lb/size) 2=1567/0	10-11 -3-8, 11=1493/0-3-8	bearing pla	ate capable of withstand 214 lb uplift at joint 11.					
	Max Horiz 2=380 (LC Max Uplift 2=-234 (L	,	8) This truss	is designed in accordan			4		
FORCES	(lb) - Maximum Com		R802.10.2	and referenced standa			1		
TOP CHORD		1520, 3-4=-3094/483	, LOAD CASE(S) Standard					
	4-6=-1969/320, 6-7= 7-8=-1326/337, 8-9=								A MILE
BOT CHORD	9-10=-1115/214, 10- 2-19=-1770/6670, 14							4	TE OF MISSO
		5-16=-1/35, 14-15=0/	107,					B	SCOTT M.
WERS	12-13=0/113, 9-13=	-352/185, 11-12=0/16	3					8.	SEVIER
WEBS		1252/338, 6-16=0/320),					W	tts . La lit
	14-16=-399/1771, 6 8-14=-368/1317, 8-1							87	NUMBER AND
NOTES	11-13=-11/5, 10-13=	=-218/1293						Ø	PE-2001018807
1) Unbalance	ed roof live loads have	been considered for							SSIONAL ENGLA
this design	1.								Varia
									January 27,2022

USE. tot trall pracing ding Component 16023 Swingley Ridge Rd Chesterfield, MO 63017

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Scale = 1:47.7

20-0-0

Plate Offsets (X, Y): [10:0-2-0,Edge], [20:0-5-10,0-1-8], [35:0-5-10,0-1-8]

3x10 "

						_	-							
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	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.00	20	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-R							Weight: 107 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SPF I 2x4 SPF I 2x4 SPF I 2x4 SPF I	No.2 No.2 No.2			OP CHORD	-3=-134/122, 6=-78/94, 8-9=-47/164, 28, /116, 74, 15-16=-48 76, 18-19=0/3	/53,	 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. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 35, 42 lb uplift at joint 20, 110 lb uplift at joint 34, 26 lb 						
TOP CHORD			athing directly applie cept end verticals.			18-20=-133/34				upl	ift at join	t 33, 4	4 lb uplift at joint	32, 40 lb uplift at joint
BOT CHORD			applied or 6-0-0 oc	E	BOT CHORD	34-35=-81/97, 33 31-32=-81/97, 30 28-29=-81/97, 27)-31=-81/9	97, 29-30=-81	/97,	upl	ift at join	t 26, 4	1 lb uplift at joint :	ft at joint 29, 58 lb 25, 40 lb uplift at joint ft at joint 22 and 97 lb
REACTIONS	Max Horiz	22=127/20 24=120/20 26=119/20 28=123/20 30=120/20 30=120/20 35=-189 (20=-42 (L 24=-40 (L 24=-40 (L 26=-58 (L 30=-41 (L	0-0-0, 21=84/20-0-0, 0-0-0, 23=119/20-0-0, 0-0-0, 25=120/20-0-0, 0-0-0, 27=123/20-0-0, 0-0-0, 31=120/20-0-0, 0-0-0, 33=127/20-0-0, 0-0-0, 35=146/20-0-0, C 6), 21=-97 (LC 9), C 9), 23=-44 (LC 9), C 9), 25=-41 (LC 9), C 9), 25=-41 (LC 9), C 8), 31=-40 (LC 8), C 8), 33=-26 (LC 8), C 8), 34=-26 (LC	0, V 0, V 0, 0, 0, 1	this design. Wind: ASCI Vasd=91mp II; Exp C; E cantilever le	25-26=-81/97, 24 22-23=-81/97, 21 3-34=-100/89, 4- 6-31=-96/57, 7-3 9-28=-110/5, 11- 13-25=-96/57, 14 16-22=-99/52, 17 d roof live loads ha E 7-16; Vult=115m ph; TCDL=6.0psf; nclosed; MWFRS eft and right expose	I-25=-81/9 -22=-81/9 33=-99/51 0=-96/57, 27=-101/0 I-24=-96/5 -21=-89/8 ave been for the second seco	97, 23-24=-81 97, 20-21=-81 97, 20-21=-81 97, 20-21=-81 98-29=-96/72, 98-29=-96/72, 99, 12-26=-99/ 97, 15-23=-96 92 considered for cond gust) 0psf; h=25ft; 9) exterior zon vertical left an	/97, /97 3, 74, /58, /r Cat. ne; id	upl 11) Thi Inte R8	ift at join s truss is ernationa	t 21. s desig al Resid and ref) Sta	ned in accordanc dential Code sect erenced standard ndard	e with the 2018 ions R502.11.1 and d ANSI/TPI 1.
FORCES		34=-110 (20=152 (L 22=127 (L 24=123 (L 26=126 (L 28=136 (L 30=123 (L 32=125 (L 34=150 (L	LC 8), 35=-81 (LC 4 LC 15), 21=130 (LC C 22), 23=124 (LC C 16), 25=123 (LC C 16), 27=127 (LC C 18), 29=123 (LC C 15), 31=123 (LC C 15), 33=127 (LC C 15), 35=184 (LC pression/Maximum) 3 16), 3 16), 16), 16), 17), 4 15), 5 21), 6	 Truss desig only. For si see Standa or consult q All plates ai Gable requi Truss to be braced aga Gable studs 	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. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads								Server

chord live load nonconcurrent with any other live loads.

SIONAL January 27,2022

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										- [RELEASE	FOR CONSTRUCTION	
Job		Truss		Truss Type		Qty	Ply	Lot 122 M	N			D FOR PLAN REVIEW	
B220018		C2		Common		1	1					OPMENT SERVICES 149888478	
Wheeler Lumber, V	Naverly KS - f			Common	Run: 8.43 S Oct 11 2				ence (optional la contra l				
Wildeler Lumber, +	Vaveny, NO 0	0071,			ID:Hr0UloyIgMOrZQ4							13/2023	
			-0-10-8	400	10-0-0		15-2-	40		20)-0-0 2p	-10-8	
			0-10-8	4-9-0 4-9-0	5-2-15		<u>15-2-</u> 5-3-					10-8	
						4x8:	=						
						4	-						
	\top \top				,								
				1 <u>2</u> 71	. //	\square	\searrow						
				2x4,	. //			\sim	2x4 🍃				
				3	`//				5				
	6-8-3 6-8-0				<								
			I			18-9-8	2			\geq	`		
			2	//	\longrightarrow		,/	//			6		
		<u>9</u>	1									7	
	$\perp \perp$	0-10-0	10									8	
			10x12 ≠			9					10x12		
			10/12 2			3x10)=				10/12	\$	
				10-0-					-0-0				
Scale = 1:48.4				10-0-	-0				-0-0				_
Plate Offsets (X,	Y): [8:0-3-1	1,0-8-1]	, [10:0-2-9,0-4-7]										-
Loading		(psf)	Spacing	2-0-0			EFL	in (loc)		L/d	PLATES	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15			. ,	.17 8-9 .35 8-9		360 240	MT20	197/144	
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB 0 Matrix-S	.24 H	orz(CT) 0	.03 8 .06 9		n/a 240	Weight: 70 lb	FT = 10%	
		10.0	Code		is designed in accordance			.00 0	/000	240 I	Weight. 70 io	FT = 1070	-
TOP CHORD 2	2x4 SPF No.			Internation	al Residential Code sec	tions R8	502.11.1 and						
	2x4 SPF No.: 2x3 SPF No.:		pt* 10-2,8-6:2x8 SP [and referenced standard	a Angi	(IPI).						
BRACING TOP CHORD	Ctructural wo	ood shes	athing directly applied	lor									
;	3-1-0 oc purl	lins, exc	cept end verticals.	- OI									
	Rigid ceiling bracing.	directly	applied or 10-0-0 oc										
REACTIONS (III	b/size) 8= 1ax Horiz 10		-8, 10=955/0-3-8										
М	1ax Uplift 8=	=-130 (LC	C 9), 10=-130 (LC 8)										
	(lb) - Maximu Tension	ım Comp	pression/Maximum										
			/182, 3-4=-875/141, 1148/183, 6-7=0/42,										
2	2-10=-852/17	78, 6-8=-	-852/178										
	9-10=-167/90 4-9=-6/460, 5		-79/881 5/206, 3-9=-254/206										
NOTES 1) Unbalanced	roof live loar	de have '	been considered for										
this design.													
Vasd=91mpl	h; TCDL=6.0)psf; BCI	(3-second gust) DL=6.0psf; h=25ft; Ca								OF M	AISSO	
			velope) exterior zone ; end vertical left and							A	THEOFN	J. Jose	
right expose	d; Lumber D	OL=1.60) plate grip DOL=1.60 a 10.0 psf bottom							A	SCOTI		
chord live loa	ad nonconcu	urrent wit	th any other live loads							la	J SEVI		
on the bottor	m chord in al	ll areas v	or a live load of 20.0p where a rectangle							1	stt.	Serves	
	by 2-00-00 w ny other men		fit between the botton	ı					-	NF.	NUME PE-20010		
5) Provide mec	chanical conn	nection (b	by others) of truss to iding 130 lb uplift at							S	112-20010		
	130 lb uplift a										SIONA	LENG	
											laa		
											January	27,2022	



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										RELEAS	SE FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Lot	122 MN			
B220018	C3		GABLE		1	1	Joh	Reference	ce (optiona		ELOPMENT SERVICES 149888479 S SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS - 66871,		•	Run: 8.43 S Oct ID:Hr0UloyIgMOr			ct 11 2021	MiTek Ind	ustries, Inc.	Tue Jan 25 5:25:5	13/2023
		-0-1 	2-4-12	<u>6-6-0</u> 4-1-4		<u>10-7-4</u> 4-1-4			5-0-0	-10-8	
					4x8 = 4						
	4-7-8	0-10-0	3 2 10 5x12= 8x8 =	7 ¹² 3x6 II			3x6	5 9 5x12= 6L		7 -0-0	-
			0-3-8 2-3-8 0-3-8 2-0-0		<u>10-8-8</u> 8-5-0			12	- <u>8-8</u> 13-0-1	0	
Scale = 1:42.3			0-3-8 200		000			2	0-3-8	5	
Plate Offsets (X, Y): [8:0-1-0,0-4-0], [11:0-1-0,0-4-0]		-				-			
Loading TCLL (roof) TCDL BCLL	10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.85 \ 0.68 \	DEFL /ert(LL) /ert(CT) lorz(CT)	in -0.21 -0.48 0.19	9-10 >	l/defl L/d >716 360 >312 240 n/a n/a	MT20	GRIP 197/144
BCDL		Code	IRC2018/TPI2014	Matrix-S		Vind(LL)	0.10		>999 240		FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 *Excep 1.8E 2x3 SPF No.2 *Excep 2x4 SPF No.2 Structural wood sheat	t* 11-2,8-6:2x6 SP ∣	chord live lo 00F 8) * This truss on the botto DSS 3-06-00 tall chord and a 9) Bearing at using ANS	has been designed for bad nonconcurrent v has been designed for chord in all areas by 2-00-00 wide will any other members. joint(s) 11, 8 conside (TPI 1 angle to grain	vith any ot for a live l where a I fit betweet ers paralle	her live load oad of 20.0 rectangle en the botto I to grain va)psf om				

	, , , , , , , , , , , , , , , , , , , ,							_					
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	0.85 0.68 0.18	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.21 -0.48 0.19 0.10	(loc) 9-10 9-10 8 9-10	l/defl >716 >312 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 59 lb	GRIP 197/144 FT = 10%
FORCES TOP CHORD BOT CHORD	Max Horiz 11=-138 (Max Uplift 8=-91 (LC (lb) - Maximum Com Tension 1-2=0/39, 2-3=-1244 4-5=-1075/203, 5-6= 2-11=-962/130, 6-8= 10-11=-135/1066, 9-	apt* 11-2,8-6:2x6 SP athing directly applie xcept end verticals. applied or 10-0-0 oc 3-8, 11=642/0-3-8 (LC 6) 2 9), 11=-91 (LC 8) apression/Maximum 4/144, 3-4=-1083/252 -1244/83, 6-7=0/39, -962/88 -10=-21/507, 8-9=-20	DSS 9 ed or 1 c 1 L 2, 6/989	 chord live loa; * This truss I on the bottoo 3-06-00 tall I chord and at Bearing at jc using ANSI/ designer sho Provide mec bearing plate 11 and 91 lb This truss is International 	as been designed ad nonconcurrent has been designe m chord in all area by 2-00-00 wide y other members int(s) 11, 8 consic TPI 1 angle to gra Juld verify capacit hanical connectio o capable of withs uplift at joint 8. designed in accoo Residential Code nd referenced sta Standard	with any d for a liv as where will fit betw s. ders para in formula y of beari on (by oth standing 9 rdance w e sections	other live loa e load of 20. a rectangle veen the bott lilel to grain v a. Building ng surface. ers) of truss i 11 lb uplift at j ith the 2018 i R502.11.1 a	0psf om alue to joint					
WEBS NOTES 1) Unbalance this design	4-9=-124/539, 5-9=0 3-10=0/226 ed roof live loads have n.		,									TE OF I	MISSO

- 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
- 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. All plates are 2x4 MT20 unless otherwise indicated.
- 4) Truss to be fully sheathed from one face or securely
- 5) braced against lateral movement (i.e. diagonal web). 6) Gable studs spaced at 1-4-0 oc.



January 27,2022



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										RELEASE	FOR CONSTRUCTION
Job		Truss		Truss Type		Qty	Ply	Lot 122 M	N		D FOR PLAN REVIEW
B220018		C4		Piggyback Base	e Structural Gable	1	1	Job Refer	ence (optional	LEE'S	OPMENT SERVICES 149888480 SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS - (66871,			Run: 8.43 S Oct 11			1 2021 MiTek	Industries, Inc. T		13/2023
		2-4-	-12		ID:Hr0UloyIgMOrZQ	4rpild7Xzssy	G-RfC?PsB7	70Hq3NSgPqn	L8w3ulTXbGKW	CDoi7J4zJC?	10/2020
		-0-10-8	<u></u>		6-6-14 23-5 -11-10 6-10		<u>28-5-8</u> 5-0-6		<u>35-3-11</u> 5-6-4	<u>39-8-14</u> 4-5-3	
		2-4			3x6=		4 11	1010			
					MT18HS 7x12 ⋟ 7	5x 8					
	0-10-0	1 2 20 8 8x8	3x4 4 3 19 6x12=	18 5x12= 12			5 x6=	9 9 14 4x8=		3x4 s 10 4x5 1 13 3x4=	°
		2-3 0-3-8 H 0-3-8	<u> </u>	6∟ 12 -8 12-8-8		-	<u>8-5-8</u> 8-2-0		<u>35-3-11</u> 6-10-3	<u>39-8-14</u> 4-5-3	
Scale = 1:86.2	[6:0-3-8			-3-0,0-2-7], [8:0-4-8	,0-2-0], [8:0-1-1,0-2-0], [1	7:0-5-0,0-2	-8], [17:0-1	-6,0-1-8], [20	0:0-3-0,0-6-4],	[21:0-1-12,0-0-4],	[23:0-1-12,0-0-4],
Plate Offsets ((X, Y): [24:0-1	-8,0-1-0]									
Loading TCLL (roof)		,	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.76 Vert		in (loc)).18 18-19	l/defl L/d >835 360	PLATES MT18HS	GRIP 197/144
TCDL		10.0 L	Lumber DOL	1.15	BC	0.54 Vert	(CT) -C).37 18-19	>409 240	MT20	197/144
BCLL BCDL			Rep Stress Incr Code	YES IRC2018/TPI2014		0.77 Horz Wind	. ,).03 17).03 13-14	n/a n/a >999 240	Weight: 321 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No 2x4 SPF No 19-3,18-5,17 10,13-11:2x3 2x4 SPF No Structural w 5-7-6 oc pur 2-0-0 oc pur Rigid ceiling bracing. 1 Row at mi (lb/size) 12 11 (lb/size) 12 11 Max Horiz 20 Max Uplift 12	.2 .2 *Except 7-5,18-4,19 3 SPF No.: .2 ood sheatt lins, exce rlins (10-0- ı directly ap dpt 8- 2=628/ Me 6=1567/0-3- 0=317/0-3- 0=287 (LC 2=-138 (LC 7=-327 (LC	9-4,19-2,14-9,13-10 2 hing directly applied pt end verticals, and 0 max.): 7-8. oplied or 6-0-0 oc 16, 7-16, 7-17 ichanical, 3-8, 17=1109/0-3-8, 8	NOTES I or 1) Unbalar d this desi 2) Wind: A Vasd=9 II; Exp C cantileve right exp 3) Truss de only. Fo see Star or const), 4) Provide 2) 5) All plate	3-19=-211/152, 5-18= 5-17=-593/194, 4-18= 4-19=-242/1015, 8-16 7-16=-382/70, 2-19=- 9-14=-466/279, 8-14= 10-13=-10/167, 10-14 11-13=-114/676 ced roof live loads have to gn. SCE 7-16; Vult=115mph (Imph; TCDL=6.0psf; BCE C; Enclosed; MWFRS (env er left and right exposed ; posed; Lumber DOL=1.60 esigned for wind loads in to ro studs exposed to wind (adequate drainage to pre s are MT20 plates unless s are 2x4 MT20 unless ot	431/188, =-1096/192; 20/523, 7-1; 294/1080, 4=-549/182, been consid (3-second g DL=6.0psf; f velope) exte end vertica plate grip [the plane of (normal to ti Details as ner as per <i>A</i> vent water otherwise i	- r=-550/16i ered for ust) =25ft; Cat. rior zone; I left and DOL=1.60 the truss ne face), applicable, NSI/TPI 1 DSI/TPI 1 DSI/TPI 1 DSI/TPI 1 DSI/TPI 1	bea 20, 14) Thi 14) Thi Inte R8(15) Gra or t bot LOAD	aring plate cap 327 lb uplift a 4 lb uplift at joi s truss is design ernational Res 02.10.2 and re aphical purlin r	able of withstandi t joint 17, 138 lb u nt 16. gned in accordanc idential Code sect ferenced standard epresentation doe of the purlin along	ions R502.11.1 and d ANSI/TPI 1. s not depict the size
FORCES TOP CHORD BOT CHORD	(lb) - Maxim Tension 1-2=0/36, 2-	um Compr 3=-661/65 10, 5-7=-79 18, 9-10=-5 (202, 2-20= (155 (321, 18-19) (196, 16-17 (159, 13-14	=-374/73, 9=-239/132, 7=-462/197,	 7) Truss to braced a 8) Gable si 9) This trus chord liv 10) * This tru 11) Refer to 12) Bearing using Al 	be fully sheathed from or against lateral movement uds spaced at 1-4-0 oc. is has been designed for e load nonconcurrent with uss has been designed for ottom chord in all areas w tall by 2-00-00 wide will fi ad any other members, wi girder(s) for truss to truss at joint(s) 20 considers pa SU/TPI 1 angle to grain for r should verify capacity of	he face or s (i.e. diagona a 10.0 psf b h any other r a live load there a rect t between th th BCDL = s connection arallel to gra pormula. Bui	ecurely al web). oottom live loads. of 20.0psf angle ne bottom 10.0psf. is. ain value Iding			PE-2001	ER 18807 Sold L ENGINE

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											RELE/	ASE FOR CONSTRUCTION	
Job	Truss	3	Truss T	уре		Qty	F	ly	Lot 122 MI	N			٦
B220018	C5		Piggyb	ack Base		3	1		Job Refere	ence (option		ELOPMENT SERVICES 149888481 E'S SUMMIT, MISSOURI	
Wheeler Lumbe	r, Waverly, KS - 66871,								2021 MiTek I	ndustries, Inc	. Tue Jan 25 5:25:	13/2023	₹่
					ID:Hr0UloyIgMOrZ	Q4rpild7	KzssyG-R	fC?PsB7(0Hq3NSgPqnl	_8w3ulTXbGł	(WrCDoi7J4zJC?	/ 10/2020	
	2-4-12 6-6	<u>-9 10-7-4</u> -13 4-0-11		<u>16-6-14</u> 5-11-10	+ 23-5-2 6-10-5			28-5-8 5-0-6	3	35-3-1 6-10-		<u>39-8-14</u> 4-5-3	
	2-4-12 4-11	4-0-11			8HS 7x12 🖌	,	5x7=	5-0-0		0-10-	0	4-0-0	
_					5	×	6						
T					A								
			3x4 ≠			/	$// \mathbb{N}$		2x4 II				
		12 71	4	_			/ \						
q		3x4 =											
10-6-0		3		\$	A A	\$					3x4		
	2x4 II										8		
	6x8= 2				$\langle \rangle$							4x5.	
٩_	1			\mathbf{N}	$\langle \rangle / $	/						9 87 97	-
	8 17 6x12=		16 5x12=				- CP		<u> </u>				-
	6X12=		61	15 19	20 14	21	13 3x6=	22	2 12 4x8=		11 3x4=	2x4 II	
	2-3-8		12	5x7=	3x4=								
	0-3-8 	<u>10-8-8</u> 8-5-0	12-8-8		<u>1-12</u> 20-3- 5-40-1-1		28-5 8-2-			<u>35-3-1</u> 6-10-		39-8-14 4-5-3	
Scale = 1:71	2-0-0	000	200		0-1-1	2	02	0		0.10		100	
Plate Offsets	(X, Y): [1:Edge,0-1-8	i], [5:0-8-4,0-1-12], [6:0)-4-8,0-2-0)], [9:Edge,0-1-8	3], [15:0-5-0,0-2-8]								_
Loading	(psf)	Spacing	2-0-0		CSI TC	0.76			in (loc)	l/defl L		GRIP 197/144	
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		BC	0.60	Vert(LL) Vert(CT) -0.	18 16-17 37 16-17	>840 36 >410 24		197/144	
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018	3/TPI2014	WB Matrix-S		Horz(C] Wind(LL		03 15 03 11-12	n/a n >999 24		lb FT = 10%	
LUMBER			1)	Unbalanced r	oof live loads have	been co	onsidere	d for					—
TOP CHORD BOT CHORD			2)	this design. Wind: ASCE 7	7-16; Vult=115mph) (3-seco	and aust)					
WEBS	2x3 SPF No.2 *Exc 14-5,14-6,5-15,6-12		_,	Vasd=91mph;	TCDL=6.0psf; BC losed; MWFRS (er	DL=6.0	osf; h=2	5ft; Cat.					
BRACING	14-5, 14-6, 5-15, 6-12	2.2x4 SFF N0.2		cantilever left	and right exposed	; end ve	ertical lef	t and					
TOP CHORD		eathing directly applie xcept end verticals, ar		Provide adequ	; Lumber DOL=1.6 Jate drainage to pr	revent w	ater pon	ding.					
BOT CHORD	2-0-0 oc purlins (10		4)		MT20 plates unles been designed fo								
	bracing.		6)		d nonconcurrent wi as been designed f								
WEBS REACTIONS	1 Row at midpt (lb/size) 10=624/	5-14, 6-14, 5-15 Mechanical,	- /	on the bottom	chord in all areas 2-00-00 wide will	where a	rectang	le .					
	14=1575 18=235/	5/0-3-8, 15=1124/0-3-8 0-3-8	3, 7)	chord and any	other members, v r(s) for truss to trus	with BCD	DL = 10.0						
	Max Horiz 18=277 Max Uplift 10=-138	(LC 5) (LC 9), 14=-146 (LC 9	8)	Bearing at joir	nt(s) 18 considers	parallel t	o grain v						
	15=-330	(LC 8), 18=-45 (LC 9)	2)	designer shou	PI 1 angle to grain Ild verify capacity o	of bearin	g surfac	e.					
	15=1398	(LC 16), 14=1750 (LC 3 (LC 15), 18=285 (LC			anical connection capable of withsta								
FORCES	(lb) - Maximum Co Tension	mpression/Maximum			ft at joint 15, 146 l								
TOP CHORD		722/185, 3-4=-135/710)/580, 6-7=-514/358,	6, 10) This truss is d	esigned in accorda						655	ADDE	
		-946/204, 1-18=-299/4		R802.10.2 an	d referenced stand	ard ANS	SI/TPI 1.				ANTE OF	MISSOL	
BOT CHORD	17-18=-299/325, 10		11	or the orientat	in representation of the purlin alo						SS SCO	DTT M.	
	15-16=-522/196, 14 12-14=-235/160, 1		LC	bottom chord. DAD CASE(S)						E.		EVIER	
WEBS	10-11=-22/78 2-17=-227/157, 3-1	7=-250/1055,								8	the		\
	3-16=-436/189, 4-1 4-15=-591/193, 5-1									V		MBER	-
	6-14=-1109/194, 1- 5-15=-565/171, 6-1	-17=-26/522,								X	PE-20	01018807	
	7-12=-465/279, 8-1	2=-294/1125, 2=-544/184, 8-11=-5/	167,								NOISSION	IAL ENGL	
NOTES	9-11=-116/685										all all		
											Janua	ary 27,2022	



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													Г	RELEAS	E FOR CONSTRUCTION
Job		Truss		Truss	Туре		Qty		Ply	Lot 1	22 MN			AS NOT	ED FOR PLAN REVIEW
B220018		C6		Piggy	/back Base		2		1	Joh	Referer	ice (optior	nali		OPMENT SERVICES 149888482 SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS -	66871,		-		Run: 8.43 S Oct 1				1 2021 N	MiTek In	dustries, Inc	c. T <mark>i</mark> e		13/2023
						ID:Hr0UloyIgMOrZ	Q4rpild7	XzssyC	G-RfC?PsB	70Hq3NS	SgPqnL8	3w3ulTXbG	KWrC	Doi7J4zJC?	10/2020
	2-	4-12	8-1-6 5-8-10		<u>16-6-14</u> 8-5-8	20-1-4	+ 23-5		28- 5-0			<u>35-3-</u> 6-10-			<u>8-14</u> 5-3
	-		0010		000		2x4 II					0.10	0		
						MT18HS 8x12 ॥ 4	5		x6= 6						
ТТ							ž R	A							
			1	2		\leq			\mathbb{N}		2x4 II				
			71								7				
)-6-0 10-6-0 9-6-0	•		3× 3	4 #											
10-6-0 10-6- 9-6-(/	//	$\langle \rangle$				3x4	
		3x4 .			R		//							8	
	6x8	2													4x5 🔪
<u></u>							14			//	\mathbb{N}				
\uparrow		17 5x7=	16 3x4		2x4 II	15 13 ^{3x4} = 4x8=	22			23	12			11	프프 10뉴 그 - 그
		니6 12			2x4 I		 18HS 4x	14 =		20	4x8=			4x4=	3x4 и
		2-3-8			^{2x4} ⊮ 12-10-8										
	0-3-8 0-3-8		8-1-6 5-9-14	<u>10-8-8</u> 2-7-2	<u>12-8-8</u> 16- 2-0-0 3-9		l		<u>28-5-8</u> 8-5-8			<u>35-3-</u> 6-10			<u>8-14</u> 5-3
Scale = 1:75.4	2	2-0-0	[4:0 4 40 0 5 0] [0:	0 0 0 0 0	0-2-0	1 0] [10:Edge 0.2 (01 [40:0	2.0.0	0.451						
	Χ, Υ): [Τ:Εάξ		[4:0-1-12,0-5-0], [6:		-12], [9:Edge,0-		s], [19:0-						-		
Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		TC	0.85	DEFL Vert(I		in).27 1:	` '			PLATES MT18HS	GRIP 197/144
TCDL BCLL		10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES		BC WB	0.78 0.92	Vert(Horz(,).42 1:).03	2-13 10		40 1/a	MT20	197/144
BCDL		10.0	Code		18/TPI2014	Matrix-S	0.52	Wind	. ,					Weight: 184 lb	FT = 10%
LUMBER		_			NOTES										
TOP CHORD BOT CHORD	2x4 SPF No 2x4 SPF No		pt* 5-13:2x3 SPF No	o.2	this design.	roof live loads have									
WEBS	2x3 SPF No No.2	o.2 *Exce	pt* 13-6,12-6:2x4 SI	PF 2		7-16; Vult=115mph n; TCDL=6.0psf; BC									
BRACING TOP CHORD	Structural v	wood she	athing directly applie	nd or		closed; MWFRS (er oosed ; end vertical									
TOF CHORD	3-8-12 oc p	ourlins, ex	xcept end verticals,	and	Lumber DOL	=1.60 plate grip DC quate drainage to pr	DL=1.60	•	•						
BOT CHORD	Rigid ceilin	g directly	0-0 max.): 4-6. applied or 10-0-0 oc	;	 All plates are 	MT20 plates unles to been designed fo	s other	vise in	dicated.						
	bracing, E 3-7-9 oc bra		-14		chord live loa	ad nonconcurrent w	ith any o	ther l	ive loads.						
1 Row at midp	6-0-0 oc bra t 5-14	acing: 12	-13.	(on the bottor	nas been designed f n chord in all areas	where a	a recta	ingle	ſ					
WEBS REACTIONS	1 Row at m	•	4-14, 6-13, 3-15 /lechanical,			by 2-00-00 wide will by other members, w									
	<u> </u>	3=1977/0	0-3-8, 18=802/0-3-8			er(s) for truss to trus int(s) 18 considers									
		10=-76 (Ľ	C 9), 18=-28 (LC 8)		using ANSI/	FPI 1 angle to grain out of the second	formula	. Buil	ding						
		10=961 (L 18=880 (L	.C 14), 13=2061 (LC .C 13)	; 13), ₍	 Provide med 	hanical connection	(by othe	ers) of	truss to						
FORCES			pression/Maximum		18 and 76 lb	e capable of withsta uplift at joint 10.									
TOP CHORD	1-2=-2450/		-1279/95, 3-4=-432/	164,	International	designed in accorda Residential Code s	ections	R502.	11.1 and					OF OF	A SIN
	7-8=-898/1	67, 8-9=- ⁻	1/209, 6-7=-933/284 1280/134, 1-18=-944	1/02		nd referenced stand rlin representation of							A	ATE	MISSOL
BOT CHORD	9-10=-886/ 17-18=-236		·17=-232/2156,			ation of the purlin al						4	H'S	SCOT	TM. YZY
	15-16=-84/ 13-14=-116	1207, 14-	15=-2/230,	I	_OAD CASE(S)							a d	*	SEV	
		181, 11-1	2=-82/1045,									8		att	Service
WEBS	2-17=-57/5	77, 3-16=	0/454, 4-15=0/689,									~	17	NUM PE-2001	
	7-12=-463/	171, 8-11	′=-141/1974, =-43/119, 9-11=-73/	958,									S.	C.D.	IN B
	8-12=-454/ 6-12=-119/		-837/18, 6=-961/150,										Y	SIONA	LEN
	3-15=-1100		,											alle	
														Januar	y 27,2022



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					RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
B220018	C7	Piggyback Base	1 1	Job Reference (optional	DEVELOPMENT SERVICES 149888483 LEE'S SUMMIT, MISSOURI
Wheeler Lumber,	Waverly, KS - 66871,			ct 11 2021 MiTek Industries, Inc. T PsB70Hq3NSqPqnL8w3uITXbGKW	
		ID:HIOOIOYIGN	IOrzQ4rpild7XzssyG-RIC?F	SB70Hq3NSgPqnL8w3u11XbGKW	
	<u>4-8-4</u> <u>8-2-2</u> 4-8-4 3-5-14	<u>13-3-2</u> <u>16-6-14</u> <u>20-1-4</u> <u>5-1-0</u> <u>3-3-12</u> <u>3-6-6</u>	23-5-2 3-3-14	28-5-8 35-3 5-0-6 6-10	
		6x6=	2x4 u 6x6=		
0-9-01 0-1-0 20	4-1-8 3x4 ≠ 6x8 ⊪ 1 1 1 2 1 4-1-8 3 3x4 ≠ 1 1 1 1 1 1 1 1 3 3x4 ≠ 1 1 1 1 3 3x4 ≠ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 x5 = 18 5x12= x5 = 16 21 22 6x8= 4x10	X	2x4 II 8 1 24 13 4x8=	3x4x 9 4x5x 10 12 3x4u 4x4=
		¹² 12 2 2 20 0 0		25.2	11 20.8.14
Sools 4:00 f	<u>4-8-4</u> <u>8-3-6</u> <u>4-8-4</u> <u>3-7-2</u>	<u>13-3-2</u> <u>20-0-0</u> 4-11-12 <u>6-8-14</u>	<u> </u>		
Scale = 1:69.1 Plate Offsets (X	(, Y): [5:0-3-0,0-1-12], [7:0-3-0,0-1- ⁻	2], [10:Edge,0-1-8], [11:Edge,0-2-8]			
Loading TCLL (roof) TCDL BCLL	(psf) Spacing 25.0 Plate Grip DO 10.0 Lumber DOL 0.0* Rep Stress In	1.15 BC cr YES WB	0.48 Vert(LL) 0.83 Vert(CT) 0.85 Horz(CT)	in (loc) l/defl L/d -0.27 13-14 >874 360 -0.43 13-14 >550 240 -0.08 14 n/a n/a	MT20 197/144 MT18HS 197/144
BCDL	10.0 Code	IRC2018/TPI2014 Matrix-S	Wind(LL)	0.05 18-19 >999 240	Weight: 187 lb FT = 10%
LUMBER TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 *Except* 18-3,6-14:2 No.2	17-19=-107/967 x3 SPF 5-16=-111/1078 8-13=-464/172, 5	, 5-15=-960/46, 9-12=-42/125,		
WEBS	2x3 SPF No.2 *Except* 20-1:2x6 S 14-7,13-7:2x4 SPF No.2	PF No.2, 10-12=-84/908, 97-13=-119/1148	9-13=-462/84, 7-14=-87	0/7,	
BRACING TOP CHORD BOT CHORD	Structural wood sheathing directly a 4-11-7 oc purlins, except end verti 2-0-0 oc purlins (10-0-0 max.): 5-7. Rigid ceiling directly applied or 10-0	Als, and this design. 2) Wind: ASCE 7-16; Vult=115r 0-0 oc Vasd=91mph; TCDL=6.0psf;	mph (3-second gust) ; BCDL=6.0psf; h=25ft; (Cat.	
1. Dour of midnt	bracing, Except: 2-10-9 oc bracing: 14-15 6-0-0 oc bracing: 13-14.	II; Exp C; Enclosed; MWFRS and right exposed; end verti Lumber DOL=1.60 plate grip 3) Provide adequate drainage t	cal left and right expose DOL=1.60	d;	
1 Row at midpt WEBS	1 Row at midpt 5-15, 7-14	All plates are MT20 plates un	nless otherwise indicate		
	14=1989/0-3-8, 20=788/ Max Horiz 20=220 (LC 5)	 This truss has been design 	nt with any other live load ed for a live load of 20.0		
	Max Uplift 11=-85 (LC 9), 20=-45 (L Max Grav 11=923 (LC 14), 14=214 20=861 (LC 13)	8 (LC 13), 3-06-00 tall by 2-00-00 wide chord and any other member	will fit between the botto rs, with BCDL = 10.0psf		
FORCES	(lb) - Maximum Compression/Maxim Tension	8) Provide mechanical connect	ion (by others) of truss to		Married
TOP CHORD	1-2=-1080/81, 2-3=-1079/138, 3-4= 4-5=-586/215, 5-6=-34/266, 6-7=-3 7-8=-866/300, 8-9=-830/183, 9-10=-1221/147, 1-20=-708/69, 10-11=-848/104	7/261, 9) This truss is designed in acc International Residential Coc R802.10.2 and referenced st	ordance with the 2018 de sections R502.11.1 a tandard ANSI/TPI 1.	nd	STATE OF MISSOL
BOT CHORD	19-20=-112/989, 18-19=-9/59, 17-1 3-17=-3/384, 16-17=-99/1039, 15-16=-43/158, 14-15=-1241/68, 6-15=-293/65, 13-14=-34/133, 12-13=-93/994, 11-12=-10/98	 10) Graphical purlin representati or the orientation of the purlin bottom chord. LOAD CASE(S) Standard 			PE-2001018807 January 27,2022



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

TCLL (roof) 25.0 Piare Grip DOL 1.15 TC 0.57 Vert(L1) -0.20 14-15 >999 360 MT20 197/144 BCLL 0.0 Rep Stress Incr YES WB 0.87 Vert(C1) -0.33 14-15 >773 240 Vert(C1) -0.33 14-15 >773 240 BCDL 10.0 Code IRC2018/TPI2014 WB 0.87 Wind(L1) 0.05 16-17 >999 240 Veight: 194 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 TS:0-2/SX SPF No.2 10 Ubalaced roof live loads have been considered for tis loads 10 Ubalaced roof live loads have been considered for tis loads 11 Usight: 194 lb FT = 10% 1.0 TA:12:0 SYSF No.2 TExcept 16-3:2x3 SPF No.2 19 Visi design. 11 Ubalaced roof live loads have been considered for tis loads 12:5:25:25:25:25:25:25:25:25:25:25:25:25:											RELEASE	FOR CONSTRUCTION	
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Mater Lunder Namey Sci - Restriction Constraints of the Constraints	B220018	C8		Piggyba	ack Base		3	1	Job Refere	nce (ontional		I49888484 SUMMIT, MISSOURI	
4.6.4 4.7.0 4.8.4 4.1.1 4.8.4 4.1.1 4.8.4 4.1.	Wheeler Lumber	, Waverly, KS - 66871,		1					1 2021 MiTek Ir	ndustries, Inc. T	Lue Jan 2 5 5:25 :52	13/2923	
4.84 4.110 6.11-10 3.84-14 3.84 5.80.4 6.10.3 4.53 99 10 20 10						ID:Hr0UloyIgMOrZ0	Q4rpild7Xzs	syG-RfC?PsB	70Hq3NSgPqnL	8w3ulTXbGKV	CDoi7J4zJC?	10/2020	
SVP SVP <td></td>													
Under the state way is a state and and a state a st		4-8-4	4-11-0		6-11-10				-0-6	6-10	0-3	4-5-3	
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Auf# DB# 310* 4.8* 3.4* But 4.8-4 9.8-8 20-0 22-5-8 35-3+11 39-8-14 Scale = 1.60.1 File 5.9.4 6-10.3 4.5-3 6-10.3 4.5-3 Scale = 1.60.1 File Spacing 2-0-0 CS1 0.57 VertLi 0.03 4.15 5.99 300 MIC2 10/2 10/2 File Spacing 2-0-0 CS1 0.57 VertLi 0.03 14.15 5.99 300 MIC2 10/2 <td>Ó</td> <td>A O</td> <td></td> <td>- •</td> <td></td> <td></td> <td>21</td> <td></td> <td>22 12</td> <td></td> <td>11</td> <td>2x4 II</td> <td></td>	Ó	A O		- •			21		22 12		11	2x4 II	
Solar = 1891 10-3-8 8-5-8 6-10-3 4-5-3 Delet Offsets (X, Y): [10-2-15.0-1-12], [4:04-80-20], [6:0-3-0.0-1-12], [9:Edge.0-1-8], [15:0-3-12,0-4-12] DEFL in (no.) Udel II Idel Segments Dading (pst) Plate Grip DOL 1.15 DE 0.00 Vert(C1) 0.20 1.45 S98 360 BCDL 10.0 Pais Grip DOL 1.15 DC 0.07 Vert(C1) 0.20 1.45 S98 360 Vert(C1) 0.20 1.45 Vert(C1) 0.20 Vert(C1) Ve			4x4=			3	x10=		4x8	=	3x4=		
State - 1611 Control (No. 1) State - 161 Plate Officers (X, Y): [15.2-15.2-11.2]. [15.2-15.2-11.2]. [1													
Loading TCLL (roof) (pst) 25.0 Lumber DL BCLL Spacing Plate Grip DCL 2-0-0 1.15 CSI DEFL in (to:) I/dett L/d PLATES GRIP BCLL 0.0 ⁺ 10.0 Lumber DL 1.15 BC 0.07 Veri(CI) -0.20 14-15 >399 360 MT20 197/144 BCLL 0.0 ⁺ Kep Stress Incr YES WES 0.37 Veri(CI) -0.05 14-15 >399 360 MT20 197/144 DFD CHORD Code IRC2018/TP12014 Matrix-S Wind(LL) 0.05 16-17 >999 240 Weight: 194 lb FT = 10% LUMBER 100 Code IRC2018/TP12014 Matrix-S Wind(LL) 0.05 16-17 >999 240 Weight: 194 lb FT = 10% LUMBER 100 Verial ASE ST = 16/2/20 ST =		-						8-5-8		6-10	0-3	4-5-3	-
TCLL (root) 25.0 Piate Gip DOL 1.15 TC 0.07 Vert(T) -0.20 14.15 -999 360 MT20 197/144 BCLL 0.00 Rep Brress Inor YES WE 0.87 Vert(C1) -0.20 14.15 -999 360 MT20 197/144 BCLL 0.00 Rep Brress Inor YES VES 0.06 16.17 -999 360 MT20 197/144 BCLL 0.00 Rep Brress Inor YES WES 0.06 16.17 -999 240 Weight: 194 ib FT = 10% UNDES 233 SPF No.2 Except 16.12x6 SPF No.2 100.184 Mick ASCE 7-16: Vull=115mph (3-second gust) Vasid-91mph; TCDL=6.0ps1-second gust)	Plate Offsets (2	X, Y): [1:0-2-15,0-1-1	2], [4:0-4-8,0-2-0], [6	:0-3-0,0-1-	12], [9:Edge,0	-1-8], [15:0-3-12,0-4	-12]						-
TCDL 10.0 Lumber DOL 1.15 BC 0.00 Very 10 -0.33 14-15 -7.33 240 BCDL 10.0 Code Very 11 No No No No No No BCDL 10.0 Code Very 11 No No No No No No BCDL 10.0 Code Very 11 No No </td <td>Loading</td> <td></td> <td>1 · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>. ,</td> <td></td> <td></td> <td></td> <td></td>	Loading		1 · ·						. ,				
BCDL 10.0 Code IRC2018/TPI2014 Marks Wind(LL) 0.05 16.17 >989 240 Weight: 194 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2	TCDL	10.0	Lumber DOL	1.15		BC	0.90 Ve	rt(CT) -0	0.33 14-15			197/144	
 LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BERACING TOP CHORD 5 Structural wood sheathing directly applied or 4-11-11 oc putilis, except end verticals, and 2-0-0 oc putilis (10-0-0 max)-k-14 BOT CHORD 8 Structural wood sheathing directly applied or 4-11-11 oc putilis, except end verticals, and 2-0-0 oc putilis (10-0-0 max)-k-14 BOT CHORD 8 REACING BOT CHORD Rigid celling directly applied or 2-2-0 oc thrising. Except: 1 Rew at midpt 6-13, 4-14 1 Row at midpt 6-13, 4-16 1 Row at midpt 6-13, 4-14 1 Row at midpt 6-13, 4-14 1 Row at midpt 6-13, 4-16 1 R	BCLL BCDL				3/TPI2014			. ,				FT = 10%	
BOT CHOR 2x4 SPF No.2 2:x4 SPF No.2 2:x5 SPF No.2	LUMBER	· · · ·		1)	Unbalanced I	oof live loads have	been cons	idered for					•
 15-14/2X8 SPF No.2, 13-10/2X4 SPF 2100² 13E 15-14/2X6 SPF No.2, 13-10/2X4 SPF 2100² 13E 13E 13E 2X3 SPF No.2 Except 13-1/2x6 SPF No.2, 13-6,12-6,15-4/2X4 SPF No.2, 13-6,12-4,12-1,201 13-6,12-6,15-4/2X4 SPF No.2, 13-6,12-4,12-4,12-4,12-4,12-4,12-4,12-4,12-4	TOP CHORD		ant* 16-3:2v3 SPF No	2 2)	•	7-16: Vult=115mph	(3-second	aust)					
WEBS 2,3 S PF No.2 + Except 116.1:2x6 SPF No.2, 13-6,12-6,15-4:2x4 SPF No.2 and right exposed; end verticial train dirght exposed; Lumber DOL-160 pitter spipeloc BRACING Structural wood sheathing directly applied or 2-0:0 oc purifies, except end verticials, and 2-0:0 oc purifies, Except: Provide adequate drainage to prevent water ponding. 1 Now at midpt 6-13, 4-14 Fiss tas base de adsigned for a 100.p5 to bottom or hord live load nonconcurrent with any other live loads. ************************************	Bor onone	15-14:2x6 SPF No.2		, ,	Vasd=91mph	; TCDL=6.0psf; BCI	DL=6.0psf;	h=25ft; Cat					
 BRACING TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max): 4-6. BOT CHORD STRUCTURE, Except: 1 Row at midpt 5-14 REACTIONS (Ib/Size) 1 Row at midpt 5-14 2 Row at REACTIONS (Ib/Size) 1 Row at REACTION	WEBS	2x3 SPF No.2 *Exce		.2,	and right exp	osed ; end vertical le	eft and righ						
 chore Circle Of Model and Wood statisting differently applied of the statistical connection with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any other live loads. chord live load nonconcurrent with any others. chord live load nonconcurrent with any others. chord live load nonconcurrent with any others. chord live load nonconcur	BRACING	13-6,12-6,15-4:2x4	SPF NO.2	1	Provide adeq	uate drainage to pre	event wate						
2-0-0 cc putins (10-0-0 max.): 4-6. 5 BOT CHORD Rigid ceiling directly applied or 2-2-0 cc bracing. Except: 5 1 Row at midpt 5-14 WEBS 1 Row at midpt 6-13, 4-14 REACTIONS (lb/size) 10–688/ Mechanical, 13=2147/03-8, 18=7/12/03-8 Max Horiz 13=224 (IC 9), 18=52 (IC 8) Max Horiz 13=2210 (IC 9), 18=52 (IC 8) Max Grav 10=683 (IC 14), 13=2391 (IC 13), 18=763 (IC 13) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-949/89, 2-3=-788/144, 3-4=-911/275, 4-5=-01/468, 5-6=0/462, 6-7=-651/311, 7-8=-639/144, 5-14=-727/368, 12-13=-171/44, 11-12=-101/836, 10-11=-12/92 9 BOT CHORD 1-2=-949/89, 2-3=-738/144, 3-4=-911/275, 4-5=-01/476, 5-14=-727/368, 12-13=-171/44, 11-12=-101/836, 10-11=-12/92 9 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-49/3428, 2-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-102/269 Standard NOTES Not	TOP CHORD			u 01 /	chord live loa	d nonconcurrent wit	h any othe	r live loads.					
bracing. Except: 3-06-00 Valle by 2-00-000 Wed will it between the bottom 1 Row at midpt 5-14 WEBS 1 Row at midpt 6-13, 4-14 1 Reactions (Ib/size) 10-688 / Mechanical, 13-2147/0-38, 18=712/0-3-8 Refer to gird(er(s) for truss to truss to russ to bearing plate capable of withstanding 52 Ib uplift at joint Max Horiz 18=220 (LC 5) Max Grav 0-803 (LC 14), 13=2291 (LC 13), FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 12=-949/89, 2-3=-788/144, 3-4=-911/275, 4-56-0402, c-76-651/311, 7, -8=-639/194, 8-9=-1038/156, 1-18=-630/72, 9-10=-729/109 BOT CHORD 1.7=8119/883, 16-17=-97/37, 15-16=0/97, 3-15=-501/176, 14-15=-150/67, 12-439/32, 6-12=-120/1156, 1-12-92 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-93/2, 6-12=-120/1156, -71=-29/145, 9-11=-		2-0-0 oc purlins (10-	-0-0 max.): 4-6.	5)					f				
 FOR val minupt 5-14 Reactions (ib/size) 18.00 at midpt 6-13, 4-14 REACTIONS (ib/size) 10=688/ Mechanical, 13=2147/0-3-8, 18=712/0-3-8 Max Horiz 18=220 (LC 5) Max Uplift 10=-91 (LC 9), 18=52 (LC 8) Max Grav 10=803 (LC 14), 13=2391 (LC 13), 18=763 (LC 13) FORCES (ib) - Maximum Compression/Maximum Tension TOP CHORD 12-2-93/9(89, 2-3=-788/144, 3-4=-911/275, 4-5=01/482, 6-7=-651/311, 7-8=-639/194, 8-9=-1038/156, 1-18=-630/72, 9-10=-7291/109 BOT CHORD 17-18=-119/883, 16-17=-97/37, 15-16=0/97, 3-15=-501/71, 14-1367/45, 5-14=-273/68, 12-120/1156, 1-12=-100/83, 12-13=-171/44, 11-12=-101/836, 10-11=-12/92 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-9932, 6-12=-120/1156, 1-12=-20/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES 		bracing. Except:											
REACTIONS (Ib/size) 10-688/ Mechanical, 13-2147/0-3-8, 18=712/0-3-8 bearing plate capable of withstanding 52 lb uplift at joint 13 and 91 lb uplift at joint 10. Max Horiz 18=220 (LC 5) bearing plate capable of withstanding 52 lb uplift at joint 10-8403 (LC 13) bearing plate capable of withstanding 52 lb uplift at joint 13 and 91 lb uplift at joint 10. FORCES (lb) - Maximum Compression/Maximum Tension To FORCES (lb) - Maximum Compression/Maximum Tension To Fore Complexity (LC 13) To Fore Complexity (LC 13) BOT CHORD 1-2=-949/89, 2-3=-788/144, 3-4=-911/275, 4-5=0/468, 5-6=0/462, 6-7=-651/311, 7-8=-630/72, 9-10=-729/109 Cap CasE(S) Standard BOT CHORD 17-18=-119/833, 16-17=-97/37, 15-16=0/97, 3-14=-102/92 1-16=-0/97, 3-14=-102/92, 6-12=-120/1156, 7-12=-463/172, 8-12=-23/485, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 Load CasE(S) Standard NOTES Notes Notes Sector Sector Sector	1 Row at midpl WEBS		6-13, 4-14	,	Refer to girde	er(s) for truss to trus	s connectio	ons.					
Max Horiz 18=220 (LC 5) Max Uplift 10=91 (LC 9), 18=-52 (LC 8) Max Grav 10=803 (LC 14), 13=-2391 (LC 13), 18=763 (LC 13) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-949/89, 2-3=-788/144, 3-4=-911/275, 4-5=0/468, 5-6=0/462, 6-7=-651/311, 7-8=-639/194, 8-9=-1038/156, 1-18=-630/72, 9-10=-729/109 BOT CHORD 17-18=-119/883, 16-17=-97/37, 15-16=0/97, 3-15=-501/176, 14-15=-150/67, 12=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-493/82, 8-11=-29/145, 9-11==-00/756, 4-15=-147/1320, 4-14=-1022/69 NOTES	REACTIONS	· /		')	bearing plate	capable of withstan			t				
Max Grav 10=803 (LC 14), 13=2391 (LC 13), 18=763 (LC 13) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-949/89, 2-3=-788/144, 3-4=-911/275, 4-5=0/468, 5-6=0/462, 6-7=-651/311, 7-8=-639/194, 8-9=-1038/156, 1-18=-630/72, 9-10=-729/109 BOT CHORD 17-18=-119/883, 16-17==97/37, 15-16=0/97, 3-15=-501/176, 14-15=-150/67, 12-13=-171/44, 11-12=-101/836, 10-11=-12/92 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-130/82, 8-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES		Max Horiz 18=220 (I	LC 5)	8)	This truss is o	designed in accorda							
FORCES (lb) - Maximum Compression/Maximum Tension 5) Organization of the purifination of the purification		Max Grav 10=803 (I	LC 14), 13=2391 (LC	13),									
Tension bottom chord. TOP CHORD 1-2=-949/89, 2-3=-788/144, 3-4=-911/275, 4-5=0/468, 5-6=0/462, 6-7=-651/311, 7-8=-639/194, 8-9=-1038/156, 1-18=-630/72, 9-10=-729/109 LOAD CASE(S) Standard BOT CHORD 17-18=-119/883, 16-17=-97/37, 15-16=0/97, 3-15=-501/176, 14-15=-150/67, 13-14=-1367/45, 5-14=-273/68, 12-13=-171/44, 11-12=-101/836, 10-111=-12/92 LOAD CASE(S) Standard WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-493/82, 8-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NUMBER PE-2001018807 NOTES NOTES	FORCES			9)	Graphical put	lin representation de	oes not de	pict the size					
9-10=-729/109 BOT CHORD 17-18=-119/883, 16-17=-97/37, 15-16=0/97, 3-15=-501/176, 14-15=-150/67, 13-14=-1367/45, 5-14=-273/68, 12-13=-171/44, 11-12=-101/836, 10-11=-12/92 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-493/82, 8-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES		Tension		5	bottom chord		9e top				Sam	ADD	
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10-11=-12/92 WEBS 2-15=-142/30, 2-17=-135/85, 15-17=-88/934, 6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-493/82, 8-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES		13-14=-1367/45, 5-1	14=-273/68,							- H	the tot	The state	
6-13=-993/2, 6-12=-120/1156, 7-12=-463/172, 8-12=-493/82, 8-11=-29/145, 9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES	WERS	10-11=-12/92		124									
9-11=-90/756, 4-15=-147/1320, 4-14=-1022/69 NOTES	WEBS	6-13=-993/2, 6-12=-	-120/1156,							8	PE-2001	018807 / 运月	
NOTES				145,						N N	Orssi-	ENGL	
	NOTES										WANNA	L D.	
	NOTES										January	/ 27,2022	

16023 Swingley Ridge Rd Chesterfield, MO 63017

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

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 122 MN	AS NOTED FOR PLAN REVIEW
000	11033		Giy	i iy		DEVELOPMENT SERVICES 149888485
B220018	C9	Piggyback Base Girder	1	4	Job Reference (optional	

Wheeler Lumber, Waverly, KS - 66871,

Scale = 1:72.2

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. The Jan 23 5 25:55 1 3/2 20:23 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4zJC?

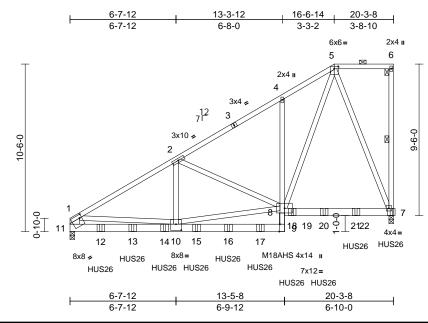


Plate Offsets (X, Y): [5:0-3-0,0-1-12], [9:0-5-8,Edge], [10:0-4-0,0-4-8], [11:0-1-8,0-2-8]

center of the member w/washers at 4-0-0 oc.

0.2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018 2)	3/TPI2014	CSI TC BC WB Matrix-S	0.64 0.76 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.21 0.03	(loc) 9-10 9-10	l/defl >999 >999	L/d 360 240	PLATES MT20 M18AHS	GRIP 197/144 142/136
0.0* 10.0 x4 SPF No.2 x6 SP 2400F 2.0E 0.2	Rep Stress Incr Code	NO IRC2018		WB		()			>999	240	M18AHS	142/136
10.0 x4 SPF No.2 x6 SP 2400F 2.0E o.2	Code	IRC2018			0.60	Horz(CT)					WITCALIS	112,100
x4 SPF No.2 x6 SP 2400F 2.0E o.2				Matrix-S		. ,		7	n/a	n/a		FT 400/
x6 SP 2400F 2.0E o.2	*Except* 9-4:2x4 SPF	2)	All loads are			Wind(LL)	0.07	7-8	>999	240	Weight: 567 lb	FT = 10%
	pt* 11-1:2x8 SP DSS		except if note CASE(S) sec provided to di unless otherw Wind: ASCE	considered equall d as front (F) or b tion. Ply to ply con istribute only load vise indicated. 7-16; Vult=115mp ; TCDL=6.0psf; B	ack (B) f nnection s noted a h (3-sec	face in the LC s have been as (F) or (B), cond gust)	DAD	LOAD C 1) De Pla Un	ASE(S) ad + Ro ate Incre iform Lo Vert: 1-5	Star of Live ase=1 oads (II 5=-70,	ndard e (balanced): Lun .15 b/ft) 5-6=-70, 9-11=-2	contact with lumber. nber Increase=1.15, 20, 7-8=-20
-0-0 oc purlins, exe -0-0 oc purlins (6-0	,		II; Exp C; End and right exp	closed; MWFRS (osed ; end vertica	envelope I left and	e); cantilever l I right expose	eft		14=-146	-831 (I 0 (B),	B), 12=-1456 (B), 15=-1460 (B), 16	б=-1460 (В),
igid ceiling directly racing.	applied or 10-0-0 oc	4)	Provide adeq	uate drainage to p	prevent v	water ponding				6 (B),	18=-1016 (B), 20)=-823 (B), 21=-823
Row at midpt	6-7	,					d.					
ux Horiz 11=314 (L ux Uplift 7=-967 (L ux Grav 7=7842 (L	C 20) C 5), 11=-765 (LC 8) C 13), 11=8648 (LC	7) 13)	* This truss had not the bottom 3-06-00 tall by	as been designed 1 chord in all areas y 2-00-00 wide wi	l for a liv s where Il fit betv	e load of 20.0 a rectangle veen the botto	ipsf om					
b) - Maximum Com ension	pression/Maximum	8)										
		·	joint 7 and 76	5 lb uplift at joint	11.							
0-11=-691/3856, 9-		- /	International	Residential Code	sections	R502.11.1 a	nd					
-8=-5191/458, 5-8=	-865/8938,	10)	or the orienta	tion of the purlin a			ize			Å	ATE OF M	MISSOL
ails as follows: onnected as follows ws staggered at 0-9 s connected as follo 0-4-0 oc, 2x4 - 1 ro	:: 2x4 - 1 row at 0-9-0 I-0 oc. ows: 2x6 - 3 rows w at 0-9-0 oc.	12)	Truss) or equ 1-11-4 from the back face of the Use Simpson Truss, Single oc max. startic connect truss	ivalent spaced at ne left end to 5-11 bottom chord. Strong-Tie HUS2 Ply Girder) or equ ng at 7-11-4 from (es) to back face	2-0-0 oc -4 to co 26 (14-10 uivalent the left	max. starting nnect truss(es Dd Girder, 6-1 spaced at 2-0 end to 11-11-	g at s) to 0d -0		-	B		ER Service
	gid ceiling directly acing. Row at midpt size) 7=6728/0- < Horiz 11=314 (L < Uplift 7=-967 (LL) < Grav 7=7842 (L) - Maximum Com ension 2=-11359/883, 2-4 5=-6070/637, 5-6= 11=-6465/505 -11=-691/3856, 9- 9=-12/2264, 4-8=-4 10=-329/4603, 8-1 8=-5191/458, 5-8= 7=-5947/557, 1-10 be connected toget ils as follows: nnected as follows: nnected as follows: s staggered at 0-9 c connected as follows /s staggered at 0-9 c connected as follows	gid ceiling directly applied or 10-0-0 oc acing. Row at midpt 6-7 size) 7=6728/0-3-8, 11=7303/0-3-8 < Horiz 11=314 (LC 20) < Uplift 7=-967 (LC 5), 11=-765 (LC 8) < Grav 7=7842 (LC 13), 11=8648 (LC 	gid ceiling directly applied or 10-0-0 oc 4) acing. 4) Row at midpt 6-7 Size) 7=6728/0-3-8, 11=7303/0-3-8 < Horiz	Lumber DOLs gid ceiling directly applied or $10-0-0$ oc acing. Row at midpt $6-7$ size) $7=6728/0-3-8$, $11=7303/0-3-8$ < Horiz 11=314 (LC 20) < Uplift 7=-967 (LC 5), 11=-765 (LC 8) < Grav 7=7842 (LC 13), 11=8648 (LC 13)) - Maximum Compression/Maximum ension $2=-11359/883, 2-4=-6042/541,5=-6070/637, 5-6=-122/85, 6-7=-129/50,11=-6465/505+11=-691/3856, 9-10=0/1119,9=-12/2264, 4-8=-401/147, 7-8=-267/222610=-329/4603, 8-10=-948/8827,8=-5191/458, 5-8=-865/8938,7=-5947/557, 1-10=-254/6049the orientabet connected together with 10dis as follows: 2x4 - 1 row at 0-9-0vs staggered at 0-9-0 oc.connected as follows: 2x4 - 1 row at 0-9-0 oc.20-10-0x target for the orienta for the orient$	 Lumber DOL=1.60 plate grip D Provide adequate drainage to p All plates are MT20 plates unle Frovide adequate drainage to p All plates are MT20 plates unle This truss has been designed chord live load nonconcurrent All plates are MT20 plates unle This truss has been designed chord live load nonconcurrent * This truss has been designed on the bottom chord in all area: 3-06-00 tall by 2-00-00 wide wi chord any other members, Provide mechanical connection bearing plate capable of withst joint 7 and 765 lb uplift at joint 11=-6465/505 Provide mechanical connection bearing plate capable of withst joint 7 and 765 lb uplift at joint thermational Residential Code R802.10.2 and referenced star 10=-329/4603, 8-10=-948/8827, 8=-5191/458, 5-8=-865/8938, 7=-5947/557, 1-10=-254/6049 Distruss is designed in accord the orientation of the purlin a bottom chord. Use Simpson Strong-Tie HUS2 Truss) or equivalent spaced at 1-11-4 from the left end to 5-11 back face of bottom chord. Use Simpson Strong-Tie HUS2 Truss, Single Ply Girder) or equivalent spaced at 1-11-4 from the left end to 5-11 back face of bottom chord. Use Simpson Strong-Tie HUS2 Truss, Single Ply Girder) or equivalent spaced at 1-11-4 from the left end to 5-11 back face of bottom chord. 	Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent to All plates are MT20 plates unless other This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord live load nonconcurrent with any * This truss has been designed for a 10.0 chord and any other members, with BC Provide mechanical connection (by oth bearing plate capable of withstanding 9 joint 7 and 765 lo uplift at joint 11.1 This truss is designed in accordance w International Residential Code sections R802.10.2 and referenced standard AN 10) Graphical purlin representation does no or the orientation of the purlin along the bottom chord. 111-4 fro	 Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding All plates are MT20 plates unless otherwise indicates This truss has been designed for a live load of 20.0 on the bottom chord in all areas where a rectangle Coro 7 7=7842 (LC 13), 11=8648 (LC 13) Awimum Compression/Maximum Carav 7=7842 (LC 13), 11=8648 (LC 13) Awimum Compression/Maximum Carav 7=7842 (LC 13), 11=8648 (LC 13) Akimum Compression/Maximum Carav 7=7842, (LC 13), 11=8648 (LC 13) Akimum Compression/Maximum Carav 7=7842, (LC 13), 11=8648 (LC 13) Akimum Compression/Maximum Carav 7=7842, (LC 13), 11=8648 (LC 13) Akimum Compression/Maximum Carav 7=7842, (LC 13), 11=8648 (LC 13) Carav 7=7842, (LC 13), 11=8648 (LC 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 71.11. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 a R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the s or the orientation of the purlin along the top and/or bottom chord. Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-1 Truss, Single Ply Girder) or equivalent spaced at 2-0 oc max. starting at 7-11-4 from the left end to 11-11- 	 Lumber DOL=1.60 plate grip DOL=1.60 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 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 = 1.0.0psf. 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 71. This truss 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. 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 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 from the left end to 11-11-14 from the left end to 11-11-4 from the left end	 Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load on concourrent 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 = 1.00psf. * 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 = 1.00psf. * This truss is designed in all code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. * Grav 72-784/863, 2-4=-6042/541, 5=-607/637, 5-6=-122/85, 6-7=-129/50, 111=-6465/505 +11=-691/3856, 9-10=0/1119, 9=-12/2264, 4-8=-401/147, 7-8=-267/2226 * This truss 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. * 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 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 to oc max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce max. starting at 7-11-4 from the left end to 11-11-4 to oce	 Lumber DOL=1.60 plate grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 Tra-145 Grav 7=7842 (LC 13), 11=8648 (LC 13) Maximum Compression/Maximum Aminon Compression/Maximum Maximum Compression/Maximum <l< td=""><td>Lumber DOL=1.60 plates grip DOL=1.60 (H) Lumber DOL=1.60 plate grip DOL=1.60 (H) Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. So 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 10.0 psf bottom chord live load nonconcurrent with any other live loads. 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 10.0 psf bottom chord live load nonconcurrent with any other live loads. 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 10.0 psf bottom chord and any other members, with BCDL = 10.0 psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 11. 9: This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10: Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 11: 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 7-11-4 from the left end to 11-11-4 to we connected as follows: 2x4 - 1 row at 0-9-0 oc. 4-0 oc, 2x4 - 1 row at 0-9-0 oc.</td><td>Lumber DOL=1.60 plates grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 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. Crax 7=7842 (LC 13), 11=8648 (LC 13)) - Maximum Compression/Maximum nsion 2=-11359/883, 2-4=-6042/541, 5=-6070/637, 5-6=-122/85, 6-7=-129/50, 11=-6465/505 F1=-5947/557, 1-10=-254/6049 Provide adequate drainage to prevent water proding. (I) This truss has been designed for a 10.0 psf 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 7 and 765 lb uplift at jo</td></l<>	Lumber DOL=1.60 plates grip DOL=1.60 (H) Lumber DOL=1.60 plate grip DOL=1.60 (H) Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. So 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 10.0 psf bottom chord live load nonconcurrent with any other live loads. 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 10.0 psf bottom chord live load nonconcurrent with any other live loads. 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 10.0 psf bottom chord and any other members, with BCDL = 10.0 psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 11. 9: This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10: Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 11: 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 7-11-4 from the left end to 11-11-4 to we connected as follows: 2x4 - 1 row at 0-9-0 oc. 4-0 oc, 2x4 - 1 row at 0-9-0 oc.	Lumber DOL=1.60 plates grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 Lumber DOL=1.60 plate grip DOL=1.60 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. Crax 7=7842 (LC 13), 11=8648 (LC 13)) - Maximum Compression/Maximum nsion 2=-11359/883, 2-4=-6042/541, 5=-6070/637, 5-6=-122/85, 6-7=-129/50, 11=-6465/505 F1=-5947/557, 1-10=-254/6049 Provide adequate drainage to prevent water proding. (I) This truss has been designed for a 10.0 psf 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. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 967 lb uplift at joint 7 and 765 lb uplift at joint 7 and 765 lb uplift at jo

13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-2-8 oc max. starting at 13-11-4 from the left end to 20-1-12 to connect truss(es) to back face of bottom chord.



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



											RELEASE FOR CONSTRUCTION
Job		Truss		Truss Type		Qty	Ply	Lot 122 M	N		AS NOTED FOR PLAN REVIEW
B220018		D1		Common Sup	ported Gable	1	1			tional	DEVELOPMENT SERVICES 149888486 LEE'S SUMMIT, MISSOURI
Wheeler Lumbe	r, Waverly, KS -	- 66871,		ļ · ·		11 2021 Print:	: 8.430 S Oct 1	Job Refere 1 2021 MiTek			ue Jan 2515:25:5 1 2 / Pig: D 2
					ID:Hr0UloyIgMOr	ZQ4rpild7Xzs	ssyG-RfC?PsB	70Hq3NSgPqn	L8w3ulT>	(bGKW	CDoi7J4zJC?
		0.40									24.0.0
		-0-10 0-10		<u> </u>						9-8 4-12	21-8-0
		0-10	-0	10 1					10	1.12	0-10-8
						4x4	4 =				
						7					
				12	6		\sim	8			
				1 <u>2</u> 5 [5		P		9		
				4							10
5-0-2				4							10
5 5			3							Þ	11
			2								12
	0-8-0	1		•		G					
	_ 6	_25									
			3x6 u 24	23	22 21	20	19	181	7	16	5 15 _{3x6 µ}
								3x4	=		
						20-9-	.8				
Scale = 1:42						20 5	0				
		(0									
Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC		EFL ert(LL)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES GRIP MT20 197/144
TCDL		10.0	Lumber DOL	1.15	BC		()	n/a -	n/a	999	
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI201	4 Matrix-R	0.05 Ho	orz(CT) (0.00 14	n/a	n/a	Weight: 79 lb FT = 10%
LUMBER			•	WEBS	7-20=-122/0, 6-21=	-151/74, 5-2	22=-139/73,				
TOP CHORD BOT CHORD	2x4 SPF No 2x4 SPF No				4-23=-139/67, 3-24 9-17=-139/73, 10-1						
WEBS	2x4 SPF No	0.2		NOTES							
OTHERS BRACING	2x4 SPF No	0.2		 Unbala this de 	anced roof live loads have sign.	e been cons	sidered for				
TOP CHORD			athing directly applied cept end verticals.	dor 2) Wind:	ASCE 7-16; Vult=115mp 91mph; TCDL=6.0psf; B(
BOT CHORD	Rigid ceilin		applied or 10-0-0 oc	II; Exp	C; Enclosed; MWFRS (e	nvelope) ex	xterior zone;				
REACTIONS	bracing.	14=177/2	0-9-8, 15=192/20-9-8	nimbet av	ver left and right exposed xposed; Lumber DOL=1.						
REACTIONS	1	16=177/2	0-9-8, 17=179/20-9-8) Truss	designed for wind loads i For studs exposed to win						
			0-9-8, 20=162/20-9-8 0-9-8, 22=179/20-9-8	, see St	andard Industry Gable E	nd Details a	is applicable,				
		23=177/2 25=177/2	0-9-8, 24=192/20-9-8 0-9-8		sult qualified building des es are 2x4 MT20 unless						
	Max Horiz 2	25=-68 (L	.C 9)		requires continuous botto to be fully sheathed from						
			.C 5), 15=-66 (LC 9), .C 9), 17=-49 (LC 9),	braced	l against lateral moveme	nt (i.e. diago					
			.C 9), 21=-50 (LC 8), .C 8), 23=-41 (LC 8),		studs spaced at 2-0-0 oc uss has been designed fo		f bottom				
			.C 8), 25=-33 (LC 4) LC 1), 15=192 (LC 22		live load nonconcurrent v truss has been designed						
	1	16=177 (L	LC 22), 17=179 (LC 1), on the	bottom chord in all areas	where a re	ctangle				
			_C 22), 20=162 (LC 1 _C 21), 22=179 (LC 1), chord a	0 tall by 2-00-00 wide wil and any other members.						OF MIS
	2		LC 21), 24=192 (LC 2	1), 10) Provid	e mechanical connection g plate capable of withsta					1	ANTE OF MISSOL
FORCES	(lb) - Maxin		pression/Maximum	25, 33	lb uplift at joint 14, 50 lb t joint 22, 41 lb uplift at jo	uplift at join	t 21, 49 lb			8	ST SCOTT M. YAY
TOP CHORD	Tension 2-25=-157/	47, 1-2=0	0/27, 2-3=-72/50,	24, 50	lb uplift at joint 19, 49 lb	uplift at join		-		BG	SEVIER
	3-4=-45/68	, 4-5=-33	/89, 5-6=-33/110, 6/123, 8-9=-33/90,		t joint 16 and 66 lb uplift uss is designed in accord		he 2018			8 G	
	9-10=-33/6	9, 10-11=	-34/48, 11-12=-57/35	. Interna	tional Residential Code	sections R5	02.11.1 and			1	Cotto Server
BOT CHORD	12-13=0/27 24-25=-8/5		-157/47 =-8/57, 22-23=-8/57,		SE(S) Standard					N.	PE-2001018807
	21-22=-8/5	7, 20-21=	=-8/57, 19-20=-8/57, =-8/57, 15-16=-8/57,							Y	SS ENGLE
	14-15=-8/5										NONAL EN
											January 27,2022
•											
Design v	alid for use only v	with MiTek®	connectors. This design is	based only upon para	ITEK REFERENCE PAGE MII-7 meters shown, and is for an ind	vidual building	component, not				
building o	design. Bracing i	ndicated is t	to prevent buckling of indivi	dual truss web and/or of	parameters and properly incorp chord members only. Additiona	temporary and	d permanent bra	ll cing			
is always fabricatio	required for stab	builty and to p	prevent collapse with possil and bracing of trusses and	bie personal injury and	property damage. For general ANSI/TPI1 Quality Crite			a Component			16023 Swingley Ridge Rd

16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-7473 rev. 5/19/2/02/ BEFORE USE. Design valid for use only with MITER 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

TCLL (roof) 25.0 Plat TCDL 10.0 Lum BCLL 0.0* Rep BCDL 10.0 Coor LUMBER 10.0 Coor TOP CHORD 2x4 SPF No.2 BOT CHORD BBS 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applied	8x8 ≠ 6-3-12 6-3-12	Run: 8.43 S	gMOrZQ4rpild7XzssyG-RfC?	Job Reference (optional Oct 11 2021 MiTek Industries, Inc. T ?PsB70Hq3NSgPqnL8w3uITXbGKW 15-5-14 5-1-2 2x4 # 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 10 3x4 = 3x4 = 10 10 10 10 10 10 10 10 10 10 10 10 10 10 </th <th>e Jan 29 5 52 54 13/2 9 23</th>	e Jan 29 5 52 54 13/2 9 23
Wheeler Lumber, Waverly, KS - 66871, $-\frac{p-10-8}{0-10-8}$ Scale = 1:43.9Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12:Loading (psf)SpaTCLL (roof)25.0TCLL (roof)25.0TOP CHORD 2x4 SPF No.2BOT CHORD 2x4 SPF No.2BRACINGTOP CHORD 2x4 SPF No.2 *Except* 12BRACINGTOP CHORD Structural wood sheathing 2-2-0 oc purlins, except eBOT CHORD Rigid ceiling directly appli bracing.	5-3-10 5-3-10 8x8 ≠ 6-3-12 6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	ID:HrOUloylog 10-4-12 5-1-2 5-1-2 2x4, 3 11 3x4 = CSI TC BC	Oct 11 2021 Print: 8.430 S i gMOrZQ4rpild7XzssyG-RfC? 2 4x8 = 4 19-7-0 19-7-0 19-7-0 0.91 DEFL 0.91 Vert(LL)	Oct 11 2021 MiTek Industries, Inc. T ?PsB70Hq3NSgPqnL8w3uITXbGKW 15-5-14 5-1-2 2x4 # 5 3x4 = 3x4 = 3x4 = 	LEE'S SUMMIT, MISSOURI te Jan 23 5:25:5 13/2023 20-9-8 21-8-0 5-3-10 0.10-8 6 7 8x8 s 8x8 s 20-9-8 6-3-12 PLATES GRIP MT20 GRIP 197/144
$\frac{-0-10-8}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{0-10-8}$ $\frac{1}{1-12}$ 1	8x8 ≠ 6-3-12 6-3-12 (0-1-8,0-3-9) acing 2-0-0 te Grip DOL 1.15	ID:HrOUloylog 10-4-12 5-1-2 5-1-2 2x4, 3 11 3x4 = CSI TC BC	2 4x8 = 4 19-7-0 19-7-0 0.91 DEFL Vert(LL)	Oct 11 2021 MiTek Industries, Inc. T ?PsB70Hq3NSgPqnL8w3uITXbGKW 15-5-14 5-1-2 2x4 # 5 3x4 = 3x4 = 3x4 = 	e Jan 29 5 52 54 13/2 9 23
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: COLL (roof) 25.0 TCDL 10.0 BCDL 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BTOP CHORD	8x8 ≠ 6-3-12 6-3-12 (0-1-8,0-3-9) acing 2-0-0 te Grip DOL 1.15	10-4-12 5-1-2	2 4x8 = 4 19-7-0 19-7-0 19-7-0 19-7-0 0.91 DEFL Vert(LL)	15-5-14 5-1-2 2x4 // 5 	20-9-8 5-3-10 0-10-8 7 8x8 8x8 20-9-8 6-3-12 PLATES GRIP MT20 197/144
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Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spa TCLL (roof) 25.0 TCLL TCDL 10.0 BCDL BCDL 10.0 Cod LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD BBACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applie	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	2x4 % 3 11 3x4 = CSI TC BC	4 19-7-0 19-7-0 19-7-0 DEFL Vert(LL)	5 10 9 3x4= 3x4= in (loc) 1/defl L/d -0.17 9-11 >999 360	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 1 1 2 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: 1	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	2x4 % 3 11 3x4 = CSI TC BC	14-5-12 8-2-1 0.91 DEFL Vert(LL)	5 10 9 3x4= 3x4= in (loc) 1/defl L/d -0.17 9-11 >999 360	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 1 1 2 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: 1	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	2x4 % 3 11 3x4 = CSI TC BC	14-5-12 8-2-1 0.91 DEFL Vert(LL)	5 10 9 3x4= 3x4= in (loc) 1/defl L/d -0.17 9-11 >999 360	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 1 1 2 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: 1	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3 11 3x4 = CSI TC BC	14-5-12 8-2-1 0.91 DEFL Vert(LL)	5 10 9 3x4= 3x4= in (loc) 1/defl L/d -0.17 9-11 >999 360	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 1 1 2 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: 1	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	11 3x4 = CSI TC BC	14-5-12 8-2-1 0.91 DEFL Vert(LL)	in (loc) 1/defl L/d -0.17 9-11 >999 360	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spa TCLL (roof) 25.0 TCLL TCDL 10.0 BCDL BCDL 10.0 Cod LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD BBACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applie	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3x4 =	14-5-12 8-2-1 0.91 DEFL Vert(LL)	10 9 3x4 = 3x4 = 	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spa TCLL (roof) 25.0 TCLL TCDL 10.0 BCDL BCDL 10.0 Coor LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS BTOP CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applie bracing.	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3x4 =	8-2-1 0.91 DEFL Vert(LL)	10 9 3x4 = 3x4 = 	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spa TCLL (roof) 25.0 TCLL TCDL 10.0 Lum BCDL 0.0* BCDL TOP CHORD 2x4 SPF No.2 BOT CHORD BACING TOP CHORD Structural wood sheathing TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except and BOT CHORD Rigid ceiling directly applie bracing.	8x8 = <u>6-3-12</u> <u>6-3-12</u> :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3x4 =	8-2-1 0.91 DEFL Vert(LL)	10 9 3x4 = 3x4 = 	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spatial TCLL (roof) 25.0 Plate TCDL 10.0 Lum BCDL 10.0 Coc LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS BTOP CHORD Structural wood sheathing 2-2-0 oc purlins, except et BOT CHORD Rigid ceiling directly applie bracing.	8x8 ≠ 6-3-12 6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3x4 =	8-2-1 0.91 DEFL Vert(LL)	10 9 3x4 = 3x4 = 	8x8₅ 20-9-8 6-3-12 PLATES GRIP MT20 197/144
Scale = 1:43.9 Plate Offsets (X, Y): [8:0-2-13,0-6-6], [12: Loading (psf) Spa TCLL (roof) 25.0 Plat TCDL 10.0 Lur BCDL 0.0* Rep DOP CHORD 2x4 SPF No.2 Coor BOT CHORD 2x4 SPF No.2 BACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applic bracing.	8x8 ≠ 6-3-12 6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	3x4 =	8-2-1 0.91 DEFL Vert(LL)	3x4 = 3x4 = 	8x8₅ 20-9-8 6-3-12 PLATES GRIP MT20 197/144
Loading (psf) Spa TCLL (roof) 25.0 Plate TCDL 10.0 Lum BCLL 0.0* BCDL Cod LUMBER 10.0 Cod Cod TOP CHORD 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except for BOT CHORD Rigid ceiling directly applie bracing. Directly applie	6-3-12 6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	CSI TC BC	8-2-1 0.91 DEFL Vert(LL)	3x4=	20-9-8 6-3-12 PLATES GRIP MT20 197/144
Loading (psf) Spa TCLL (roof) 25.0 Plate TCDL 10.0 Lum BCLL 0.0* BCDL Cod LUMBER 10.0 Cod Cod TOP CHORD 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except for BOT CHORD Rigid ceiling directly applie bracing. Directly applie	6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	TC BC	8-2-1 0.91 DEFL Vert(LL)	in (loc) l/defl L/d -0.17 9-11 >999 360	6-3-12 PLATES GRIP MT20 197/144
Loading (psf) Spa TCLL (roof) 25.0 Plate TCDL 10.0 Lum BCLL 0.0* BCDL Cod LUMBER 10.0 Cod Cod TOP CHORD 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except for BOT CHORD Rigid ceiling directly applie bracing. Directly applie	6-3-12 :0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	TC BC	8-2-1 0.91 DEFL Vert(LL)	-0.17 9-11 >999 360	6-3-12 PLATES GRIP MT20 197/144
Loading (psf) Spa TCLL (roof) 25.0 Plate TCDL 10.0 Lum BCLL 0.0* BCDL Cod LUMBER 10.0 Cod Cod TOP CHORD 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except for BOT CHORD Rigid ceiling directly applic bracing. Directly applic	:0-1-8,0-3-9] acing 2-0-0 te Grip DOL 1.15	TC BC	0.91 DEFL 0.91 Vert(LL)	-0.17 9-11 >999 360	PLATES GRIP MT20 197/144
Loading(psf)SpaTCLL (roof)25.0PlatTCDL10.0LurBCDL0.0*RepBCDL10.0CodLUMBER10.0CodTOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2BRACINGTOP CHORDTOP CHORDStructural wood sheathing 2-2-0 oc purlins, except eBOT CHORDRigid ceiling directly applie bracing.	acing 2-0-0 te Grip DOL 1.15	TC BC	0.91 Vert(LL)	-0.17 9-11 >999 360	MT20 197/144
TCLL (roof) 25.0 Plat TCDL 10.0 Lum BCLL 0.0* Rep BCDL 10.0 Coor LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applie bracing. Description Description	te Grip DOL 1.15	TC BC	0.91 Vert(LL)	-0.17 9-11 >999 360	MT20 197/144
TCDL 10.0 Lurr BCLL 0.0* Rep BCDL 10.0 Cod LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD BOT CHORD Rigid ceiling directly applie bracing. Name		BC			
BCDL 10.0 Corr LUMBER TOP CHORD 2x4 SPF No.2 Description BOT CHORD 2x4 SPF No.2 Except * 12 BRACING TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applied bracing.		IWB	a (a) (a -	-0.39 9-11 >621 240	
TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 12 BRACING TOP CHORD TOP CHORD Structural wood sheathing 2-2-0 oc purlins, except e BOT CHORD Rigid ceiling directly applie bracing.	p Stress Incr YES de IRC2018/TF		0.16 Horz(CT) Wind(LL)	0.04 8 n/a n/a 0.10 9-11 >999 240	Weight: 68 lb FT = 10%
Max Horiz12=-66 (LC 9) Max UpliftMax Horiz12=-66 (LC 9) Max UpliftFORCES(lb) - Maximum Compress TensionTOP CHORD1-2=0/32, 2-3=-1541/197, $4-5=-1394/220, 5-6=-154'2-12=-907/170, 6-8=-907/BOT CHORD11-12=-185/1326, 9-11=-58-9=-119/1326WEBS4-9=-89/469, 5-9=-251/173-11=-251/176NOTES1)1)Unbalanced roof live loads have beenthis design.2)Wind: ASCE 7-16; Vult=115mph (3-seVasd=91mph; TCDL=6.0psf; BCDL=6II; Exp C; Enclosed; MWFRS (envelopcantilever left and right exposed ; endright exposed; Lumber DOL=1.60 plat3)This truss has been designed for a 10chord live load nonconcurrent with any4) * This truss has been designed for a 11on the bottom chord in all areas where3-06-00 tall by 2-00-00 wide will fit betchord and any other members.5)Provide mechanical connection (by othbearing plate capable of withstandingjoint 12 and 143 lb uplift at joint 8.$	Int R8 2-2,8-6:2x8 SP DSS LOAD g directly applied or end verticals. ied or 10-0-0 oc 2=991/0-3-8 12=-143 (LC 8) sion/Maximum , 3-4=-1394/220, 1/197, 6-7=0/32, 1/197, 6-7=0/32, 1/19	his truss is designed in ac iternational Residential Co 802.10.2 and referenced O CASE(S) Standard	ode sections R502.11.1		SCOTT M. SEVIER PE-2001018807 January 27,2022

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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW
D000010	D2		1	2		DEVELOPMENT SERVICES 149888488
B220018	D3	Roof Special Girder	1	Ζ	Job Reference (optional	LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Scale = 1:71.5

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. The Jan 23 5:25:51 3/2 3/2 3:51 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4zJC?

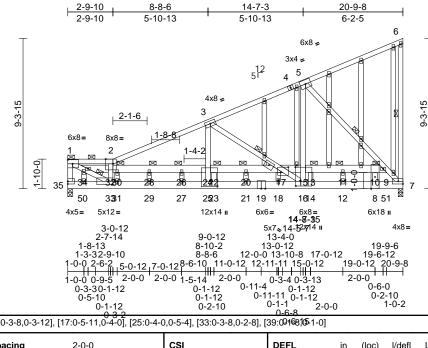


Plate Offsets (2	X, Y): [2:0-5-8,Edge]	, [16:0-3-8,0-3-12], [1	7:0-5-11,0	0-4-0], [25:0-4-	0,0-5-4], [33:0-3-	8,0-2-8], [39:00168,105-1-0	0]					
oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc		L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.60	Vert(LL)		27-29		360	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.46	Vert(CT)		26-28		240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.83	Horz(CT)	0.04			n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-S		Wind(LL)	0.10	27-29	9 >999	240	Weight: 365 lb	FT = 10%
UMBER OP CHORD OT CHORD VEBS OTHERS BRACING OP CHORD	1.8E 2x6 SP 2400F 2.0E 2x4 SPF No.2 *Exc 1.8E 2x4 SPF No.2 Structural wood she	ept* 33-1:2x4 SPF 21 eathing directly applie	00F 00F d or		33-35=-325/206, 29-31=-1341/892 25-27=-1341/892 21-23=-1184/845 16-18=-1158/827 12-14=-539/4363, 3 30-32=-1431/302 26-28=-1431/302 22-24=-987/154,	1, 27-29= 1, 23-25= 6, 18-21= 7, 14-16= 4, 8-12=-5 2-34=-15 2-34=-15 2-34=-15 2-34=-26=-	1341/8921, 1184/8456, 1184/8456, 539/4363, 39/4363, 46/197, 1431/302, 1431/302,		V II ca e: 4) T of se	asd=91m ; Exp C; E antilever I xposed; L russ desiq nly. For s ee Standa r consult o	ph; TC Enclose eft and umber gned fo tuds ex ard Indu qualifie	d; MWFRS (enve right exposed ; e DOL=1.60 plate o or wind loads in the posed to wind (n ustry Gable End D d building designe	=6.0psf; h=25ft; Ca lope) exterior zone; nd vertical left
OT CHORD	2-0-0 oc purlins (4-8	ccept end verticals, an 3-5 max.): 1-2. / applied or 10-0-0 oc			17-20=-987/154, 13-15=-513/57, 1	15-17=-5 1-13=-51	33/76, 3/57,		6) A 7) T	ll plates a russ to be	re 2x4 fully s	MT20 unless othe heathed from one	erwise indicated. face or securely
	bracing.				10-11=-513/57, 9							eral movement (i. ed at 2-0-0 oc.	e. diagonal web).
VEBS OINTS	1 Row at midpt 1 Brace at Jt(s): 1, 30, 28, 26, 22, 20, 13, 11, 10, 34	6-7, 3-16, 5-7	vv		32-33=-3676/403 24-25=-310/2180 3-17=-4277/643, 15-16=-337/3306	, 2-32=-3 , 3-24=-3 16-17=-4	240/390, 45/3483, 804/733,		9) T cl 10) *	his truss h hord live h This truss	nas bee oad no s has b	en designed for a nconcurrent with	any other live loads a live load of 20.0ps
		_C 8), 35=-730 (LC 8)			5-9=-5540/703, 7 30-31=-32/68, 28 26-27=-109/482, 20-21=-43/329, 1 11-12=-36/116, 8	-9=-6610, -29=-118, 22-23=-3- 3-14=-14	/807, /694, 4/188, 6/1106,		3. cl 11) W	-06-00 tal hord and a /ARNING	l by 2-0 any oth : Requ		between the bottom
ORCES	(lb) - Maximum Con	npression/Maximum			17-18=-146/989							0000	ADD
OP CHORD	Tension 1-35=-4813/587, 1- 2-3=-8207/858, 3-5 6-7=-179/91	2=-7099/815, =-4279/380, 5-6=-11′	1)	(0.131"x3") Top chords oc. Bottom chor staggered a Web connec All loads are except if not CASE(S) se provided to	b be connected to nails as follows: connected as follo ds connected as follows: t 0-9-0 oc. ted as follows: 2: e considered equa ed as front (F) or ction. Ply to ply c distribute only loa wise indicated.	follows: 2x4 - follows: 2 (4 - 1 row ally applie back (B) onnection	- 1 row at 0-6- x6 - 2 rows at 0-4-0 oc. d to all plies, face in the LC s have been			•		SCOTT SEVI SEVI SEVI PE-20010 PE-20010	ER SER 018807
		O. M	THER MEA	ITARY BEARIN NS TO ALLOW H AS COLUMN	G PLATES, SPECI/ FOR THE MINIMU CAPS, BEARING I OF THE TRUSS M	M REQUIR BLOCKS, E	ED SUPPORT					and a	27,2022
Continued on				DING DESIGN									



OR THE BUILDING DESIGNER.
Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	AS NOTED FOR PLAN REVIEW
B220018	D3	Roof Special Girder	1	2	Job Reference (optional	DEVELOPMENT SERVICES 149888488 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS - 6	56871,				2021 MiTek Industries, Inc. T 0Hq3NSgPqnL8w3ulTXbGKW	

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 730 lb uplift at joint 35 and 682 lb uplift at joint 7.
- 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 763 lb down and 149 lb up at 0-11-3, 769 lb down and 150 lb up at 3-0-12, 769 lb down and 150 lb up at 5-0-12, 769 lb down and 150 lb up at 7-0-12, 976 lb down and 88 lb up at 9-0-12, 976 lb down and 88 lb up at 11-0-12, 937 lb down and 97 lb up at 13-2-15, 837 lb down and 103 lb up at 15-0-12, 837 lb down and 103 lb up at 17-0-12, 837 lb down and 103 lb up at 19-0-12, and 291 lb down and 57 lb up at 5-0-12, and 291 lb down and 57 lb up at 7-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Studding applied to ply: 1(Front)
- LOAD CASE(S) Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-2=-70, 2-6=-70, 7-35=-20, 9-34=-20
 - Concentrated Loads (lb)
 - Vert: 31=-671 (B), 29=-920 (F=-249, B=-671), 27=-920 (F=-249, B=-671), 23=-806 (B), 21=-806 (B), 14=-741 (B), 12=-741 (B), 8=-741 (B), 18=-797 (B), 50=-674 (B)

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									R	ELEASE FOR C	CONSTRUCTION
Job	Trus	S	Truss Type		Qty	Ply	Lot 122 M	ΛN	,	AS NOTED FOR DEVELOPMEN 149	
B220018	P1		Piggyback		1	1	Job Refe	rence (opti	onal	LEE'S SUMMI	T, MISSOURI
Wheeler Lumbe	er, Waverly, KS - 66871,								inc. Tue Jan 25 GKW CDoi7J4z.		/2023
				-0-9-15 0-9-15	2-7-3 2-7-3		5-2-6 2-7-3		6-0-5)-9-15		
					12 7 ┌	3x4 =					
					2x	4 II 4	2x4 II				
		2-0-0 1-10-8	ý	2	3		5		6		
					9				7		
				2x4 =	2x	(4 II	2x4 II	2x4 =			
Scale = 1:26.8 Plate Offsets	(X, Y): [4:0-2-0,Edge	e], [5:0-0-0,Edge]				5-2-6					
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	0.05 V 0.02 V	DEFL /ert(LL) /ert(CT) lorz(CT)	in (loc) n/a - n/a - 0.00 6	n/a n/a	L/d PLATE 999 MT20 999 n/a	S GRIF 197/1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.02	1012(01)	0.00 0	- π/α	Weight:	17 lb FT =	10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 Structural wood st 6-0-0 oc purlins. Rigid ceiling direct bracing. (lb/size) 2=113/5	neathing directly applie tly applied or 6-0-0 oc 5-2-6, 6=113/5-2-6, 5-2-6, 9=159/5-2-6	on the both 3-06-00 tail chord and a 8) Provide me bearing pla 2, 8 lb uplif uplift at joir 9) This truss i Internation R802.10.2	s has been designe om chord in all are I by 2-00-00 wide v any other member echanical connection the capable of with it at joint 6, 52 lb up nt 8. is designed in acco al Residential Cod and referenced sta ard Industry Piggy	as where a r vill fit betwee s. on (by others standing 5 lb olift at joint 9 ordance with e sections R andard ANSI	rectangle en the bottor uplift at join and 49 lb the 2018 502.11.1 an /TPI 1.	n t				

- Max Grav 2=114 (LC 21), 6=114 (LC 22), 8=164 (LC 16), 9=166 (LC 15) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/17, 2-3=-51/54, 3-4=-20/6, 4-5=-20/7, 5-6=-47/50, 6-7=0/17 BOT CHORD 2-9=-26/68, 8-9=-26/68, 6-8=-26/68



MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

NOTES

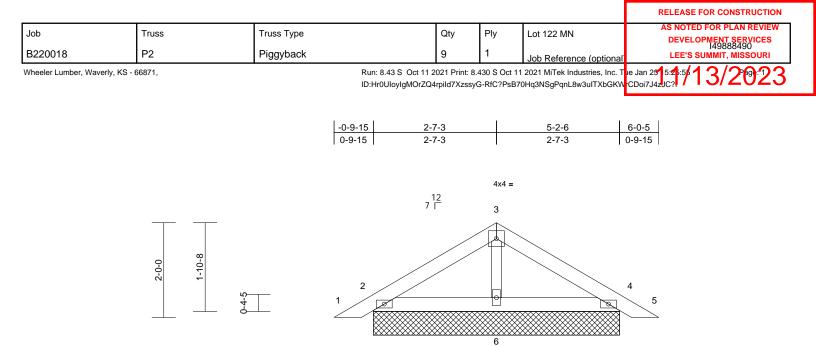
WEBS

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

3-9=-130/73, 5-8=-128/71

- 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
- 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 1-4-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



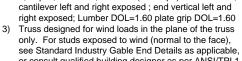
Scale =	1:24.3
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Scale = 1:24.3												-	
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.11 0.06 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code		/TPI2014	Matrix-P		()		-			Weight: 16 lb	FT = 10%
FORCES TOP CHORD BOT CHORD WEBS NOTES	6=207/5-2 Max Horiz 2=-48 (LC Max Uplift 2=-43 (LC (Ib) - Maximum Com Tension 1-2=0/17, 2-3=-74/4 2-6=-8/36, 4-6=-8/36 3-6=-142/35	applied or 10-0-0 oc 2-6, 4=168/5-2-6, 2-6 2-6 2-6 3-8), 4=-49 (LC 9) apression/Maximum 1, 3-4=-71/29, 4-5=0	10) LO	bearing plate 2 and 49 lb u This truss is International R802.10.2 ar See Standard Detail for Con	hanical connecti capable of with plift at joint 4. designed in accord Residential Cod nd referenced st d Industry Piggy nnection to base fied building des Standard	standing 4 ordance wi le sections andard AN back Truss e truss as a	3 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1. s Connection	and					
this design.2) Wind: ASCI Vasd=91mp	d roof live loads have E 7-16; Vult=115mph bh; TCDL=6.0psf; BC nclosed; MWFRS (er	(3-second gust) DL=6.0psf; h=25ft; C	at.									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

2x4 =

2x4 II

5-2-6



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.

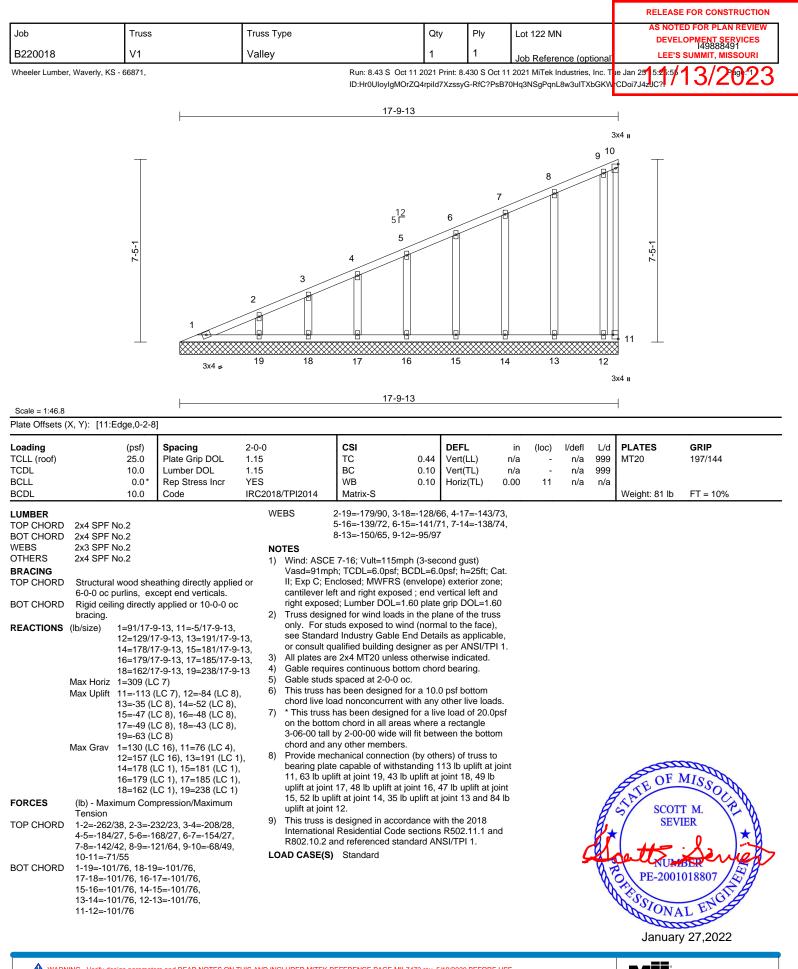
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other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

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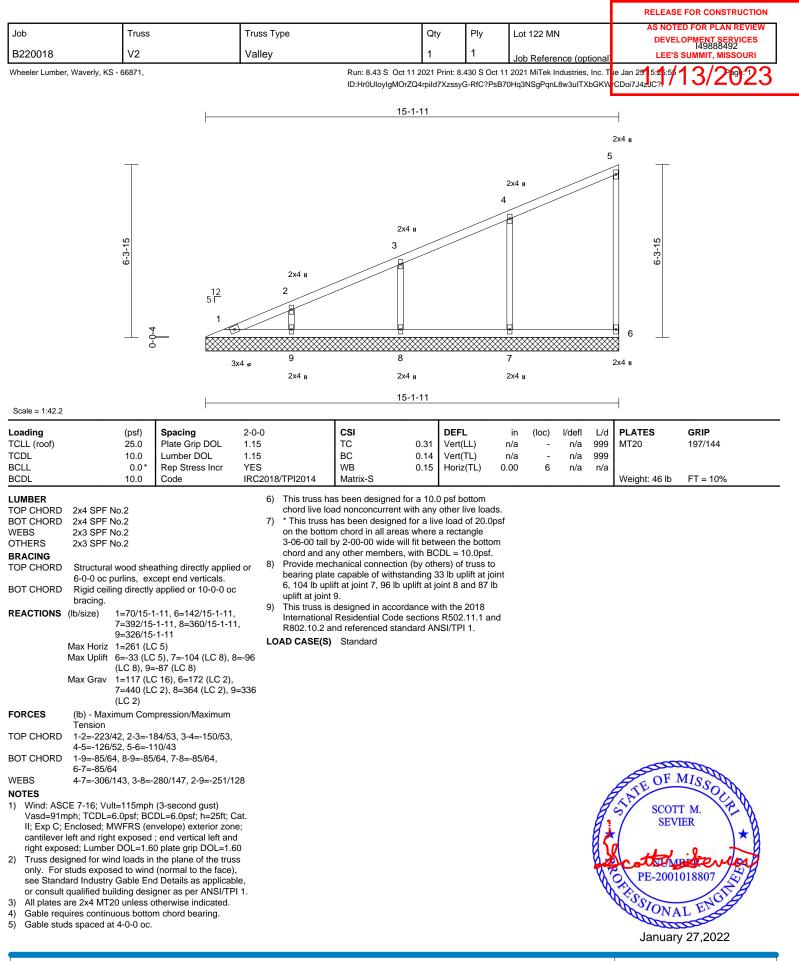
2x4 =





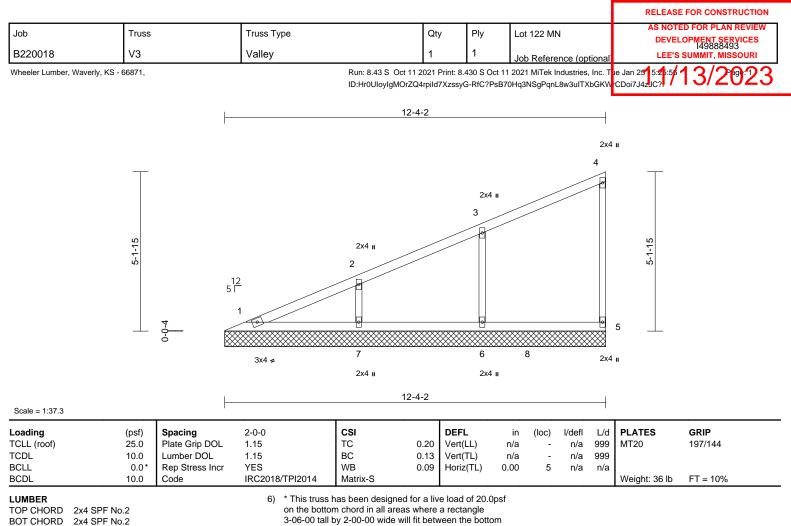
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16023 Swingley Ridge Rd Chesterfield, MO 63017



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3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint

5, 103 lb uplift at joint 6 and 101 lb uplift at joint 7.

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

LOAD CASE(S) Standard

WEBS NOTES

FORCES

TOP CHORD

BOT CHORD

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

- 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
- 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.

Gable requires continuous bottom chord bearing. 3)

2x3 SPF No.2

2x3 SPF No.2

bracing.

Max Horiz Max Uplift

Max Grav

Tension

4-5=-110/43

Structural wood sheathing directly applied or

1=130/12-4-2, 5=143/12-4-2, 6=388/12-4-2, 7=377/12-4-2

5=-29 (LC 5), 6=-103 (LC 8),

1=159 (LC 16), 5=170 (LC 2), 6=415 (LC 2), 7=384 (LC 2)

6-0-0 oc purlins, except end verticals.

1=210 (LC 5)

7=-101 (LC 8)

(Ib) - Maximum Compression/Maximum

1-2=-172/54, 2-3=-135/51, 3-4=-116/40,

1-7=-68/51, 6-7=-68/51, 5-6=-68/51 3-6=-304/148, 2-7=-287/147

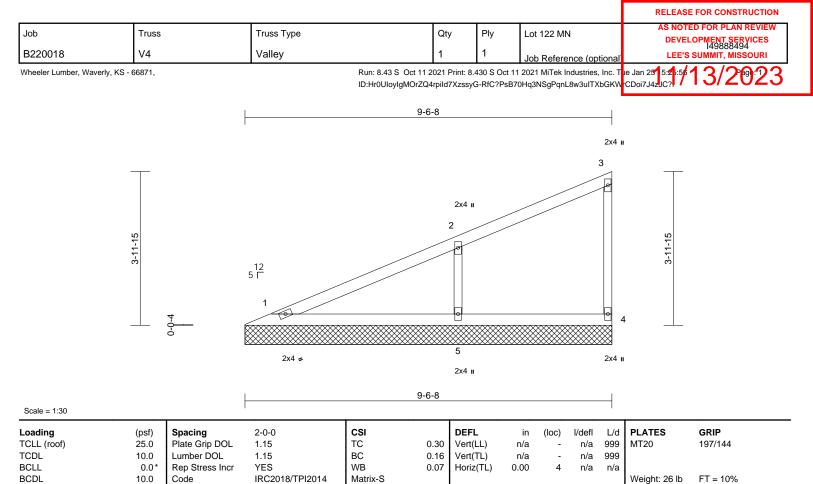
Rigid ceiling directly applied or 10-0-0 oc

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.

OF MISS SCOTT M. SEVIER PE-2001018807 0 SSIONAL E January 27,2022

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



DODL		10.0	Coue	
LUMBER				
TOP CHORD	2x4 SPF I	No.2		
BOT CHORD	2x4 SPF I	No.2		
WEBS	2x3 SPF I	No.2		
OTHERS	2x3 SPF I	No.2		
BRACING				
TOP CHORD	Structura	wood shea	athing directly	applied or
	6-0-0 oc p	ourlins, exc	cept end vertic	als.
BOT CHORD	Rigid ceil	ing directly	applied or 10-	0-0 oc
	bracing.			
REACTIONS	(lb/size)	1=174/9-6	-8, 4=121/9-6	-8,
		5=491/9-6	-8	
	Max Horiz	1=159 (LC	; 5)	
	Max Uplift	4=-23 (LC	5), 5=-130 (L	C 8)
FORCES	(lb) - Max	imum Com	pression/Maxi	mum
	Tension			
TOP CHORD	1-2=-123/	72, 2-3=-10	06/29, 3-4=-96	5/39
BOT CHORD	1-5=-51/3	9, 4-5=-51/	39	
WEBS	2-5=-372/	/183		

NOTES

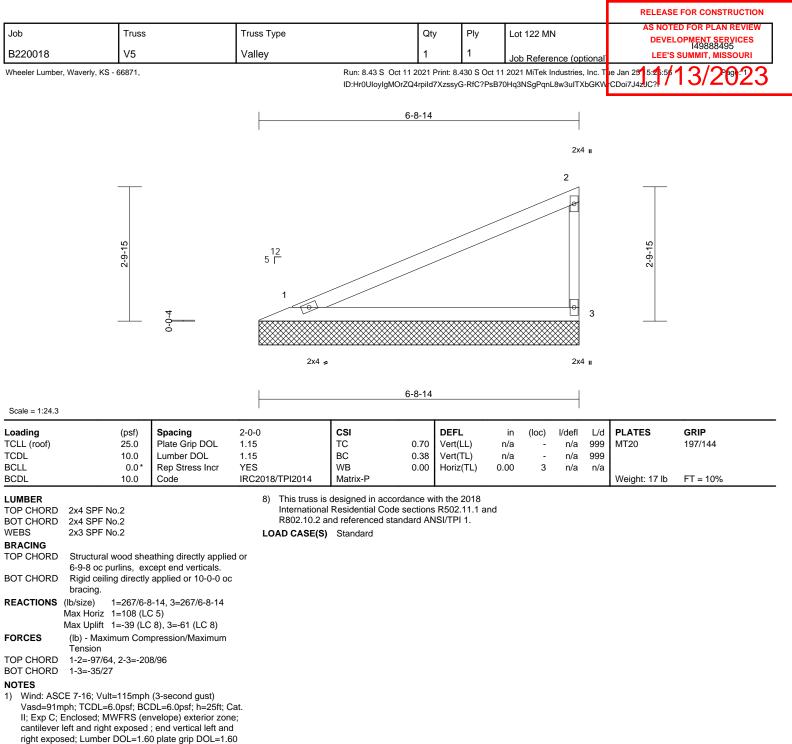
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane 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 23 lb uplift at joint 4 and 130 lb uplift at joint 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.
- LOAD CASE(S) Standard



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





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. Gable requires continuous bottom chord bearing.

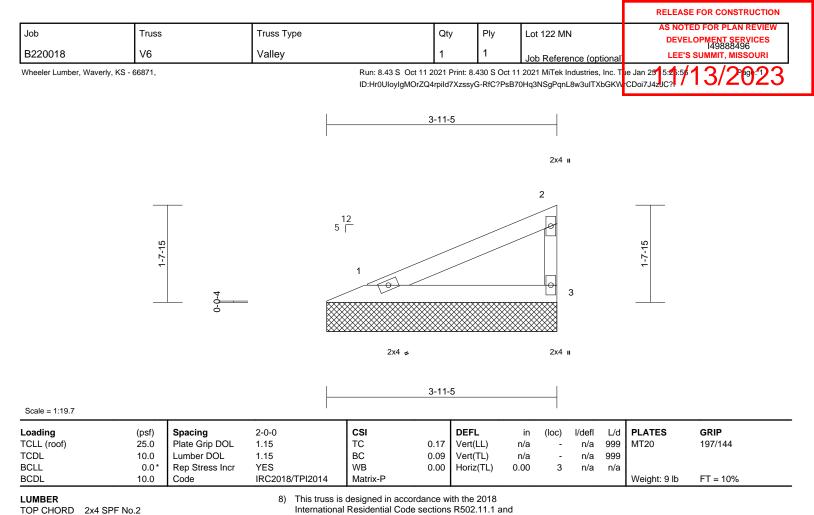
3) Gable studs spaced at 4-0-0 oc

- 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 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 7) bearing plate capable of withstanding 39 lb uplift at joint 1 and 61 lb uplift at joint 3.

OF MISS TF SCOTT M. SEVIER PE-200101880 SSIONAL E January 27,2022



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BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 1=141/3-11-5, 3=141/3-11-5 Max Horiz 1=57 (LC 5) Max Uplift 1=-21 (LC 8), 3=-32 (LC 8) FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-51/34, 2-3=-110/51 BOT CHORD 1-3=-19/14

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.

Gable requires continuous bottom chord bearing. 3)

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.
- 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 7) bearing plate capable of withstanding 21 lb uplift at joint 1 and 32 lb uplift at joint 3.

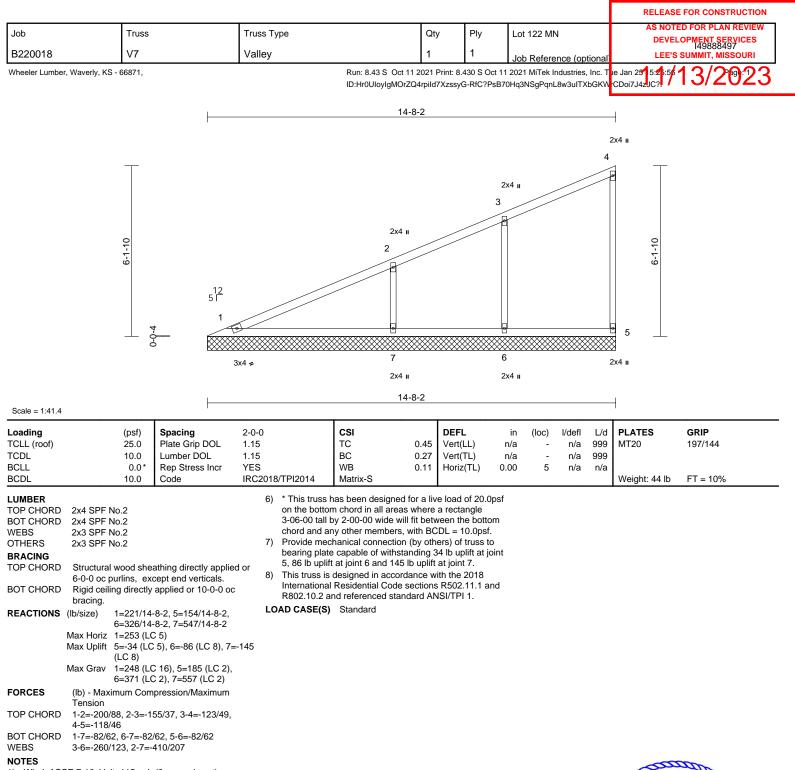
OF MISS SCOTT M. SEVIER NUMBER PE-200101880 0 SSIONAL

January 27,2022



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R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



- Wind: ASCE 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.

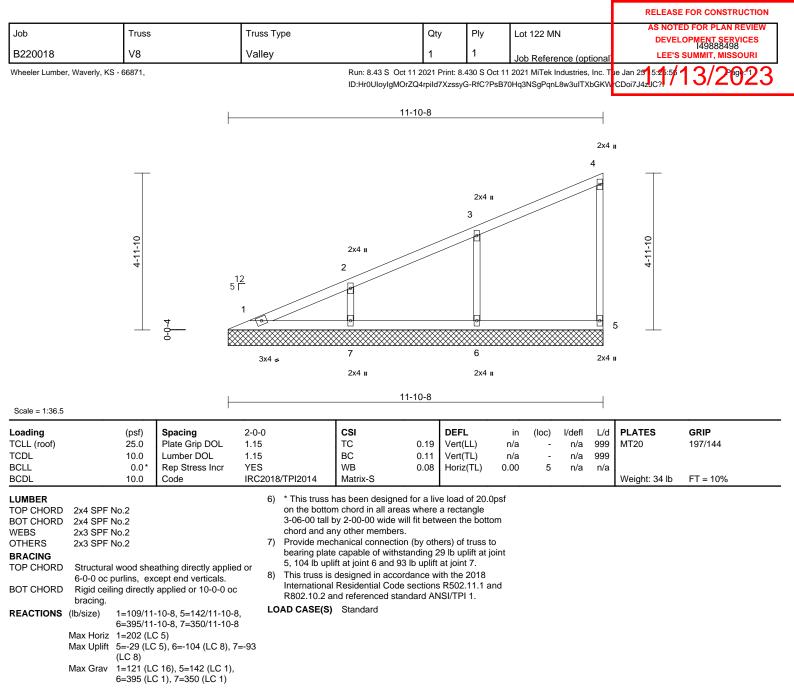
4) Gable studs spaced at 4-0-0 oc.

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



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FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-166/48, 2-3=-130/52, 3-4=-113/38, 4-5=-109/43

BOT CHORD 1-7=-65/49, 6-7=-65/49, 5-6=-65/49 WEBS 3-6=-309/151, 2-7=-267/138

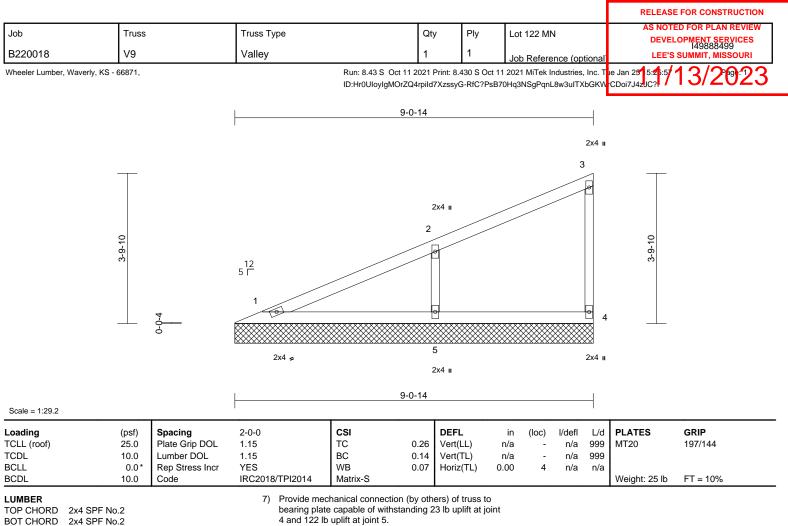
NOTES

- 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.



hitek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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VVEBS	2X3 SPF NO.2
OTHERS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 1=155/9-0-14, 4=129/9-0-14,

5=460/9-0-14 Max Horiz 1=151 (LC 5) Max Uplift 4=-23 (LC 5), 5=-122 (LC 8) FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-117/64, 2-3=-103/27, 3-4=-101/42 BOT CHORD 1-5=-48/37, 4-5=-48/37 WEBS 2-5=-350/173

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
- 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.
- Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

4 and 122 lb uplift at joint 5.

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

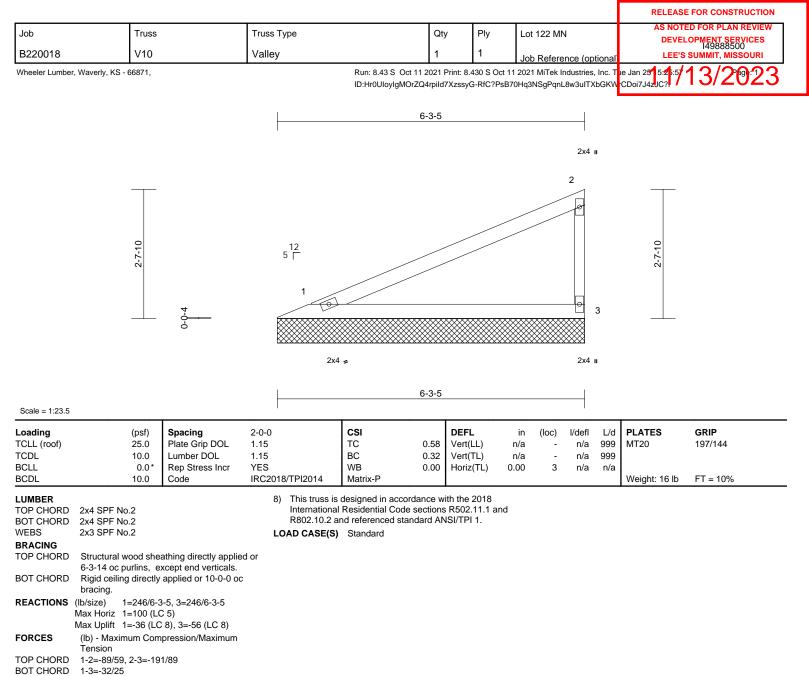
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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 preven tbuckling 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 sand 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



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 36 lb uplift at joint 1 and 56 lb uplift at joint 3.

ACTION OF MISSOL SCOTT M. SEVIER NUMBER PE-2001018807 SIONAL ENGINE January 27,2022

> 16023 Swingley Ridge Rd Chesterfield, MO 63017

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 property 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 sand truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

										FOR CONSTRUCTION	7
Job	Truss		Truss Type		Qty	Ply	Lot 122 M	N		OPMENT SERVICES 149888501	
B220018	V11		Valley		1	1	Job Refere	ence (optional	LEE'S	SUMMIT, MISSOURI	
Wheeler Lumber, Waverly	y, KS - 66871,			Run: 8.43 S Oct 1 ID:Hr0UloyIgMOr2					ue Jan 2515:25:57 CDoi7J4zJC?i	13/2023	
					3-5-11						
							2x4 u				
	-	0		5 T			2		10		
	-		=			<u> </u>	3		1-5-10		
				2x4 =			2x4 II				
Scale = 1:19					3-5-11						
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	0.12 Ve	EFL ert(LL) ert(TL)	in (loc) n/a - n/a -	l/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 197/144	-

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC 0.).12	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		International R802.10.2 a	designed in accordance Residential Code sect nd referenced standarce	tions	R502.11.1 and	ł					
BRACING	2X3 3FF N0.2		LOAD CASE(S)	Standard								
TOP CHORD	Structural wood shea 3-6-5 oc purlins, exc		d or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	;									
	(lb/size) 1=120/3-5 Max Horiz 1=49 (LC Max Uplift 1=-17 (LC	,										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD BOT CHORD	Tension 1-2=-44/29, 2-3=-93/ 1-3=-16/12	/43										
NOTES												
Vasd=91m II; Exp C; E cantilever I	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.60	DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and	e; J									
 Truss designed only. For s see Standa 	gned for wind loads in studs exposed to wind ard Industry Gable End	the plane of the trus (normal to the face) d Details as applicab	s , ile,								TATE OF I	and
	qualified building desig		11.								FE OF I	MISS
	uires continuous bottor Is spaced at 4-0-0 oc.	m chord bearing.								G	N	NS
	has been designed for	r a 10.0 psf bottom								A	S/ SUUI	$1 M. \qquad (\checkmark)$
	load nonconcurrent wi								- i	8.	SEV	
on the bott 3-06-00 tal	s has been designed fo om chord in all areas Il by 2-00-00 wide will	where a rectangle									atto	ener
	any other members. echanical connection ((by others) of truss to)							N	PE-2001	018807
bearing pla	ate capable of withstar o uplift at joint 3.									Ø	PE-2001	L ENGLAS
											January	27.2022

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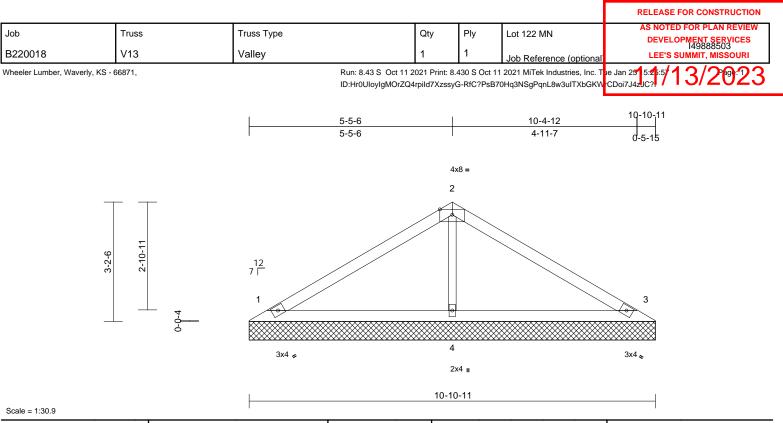


January 27,2022

								RELEASE	FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 122 MN	1		D FOR PLAN REVIEW
B220018	V12	Valley		1	1	Job Boforo	nce (optional)	1 5 5 10 4	DPMENT SERVICES 149888502 SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,		Run: 8.43 S Oct 11 2			2021 MiTek In	dustries, Inc. T	ue Jan 25 5:25:57	13/2023
			ID:Hr0UloyIgMOrZQ4	Irpild7XzssyG	G-RfC?PsB70)Hq3NSgPqnL	8w3ulTXbGKW	CDoi7J4zJC?	13/2023
	1	6	10-8	1		12	-3-1	13-9-	0
	F		10-8				4-9	0-5-1	5
				4x4 :	=				
—	—			3					
			/						
						\sim			
4-0-6	3-8-11	2x4					2x4 II		
4-0	ෆ් 1 7	2					4		
		P						$\langle \rangle$	
	4							5	
	0-0-0-								
		3x4 ≠ 8	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7	~~~~~	~~~~~~	6	3x4 👟	
		2x4	u	2x4			2x4 u		
	L			13-9-0	1				
Scale = 1:34.5								1	
Loading	(psf) Spacing 25.0 Plate Grip DOL	2-0-0	CSI TC 0	DEFL		in (loc)	I/defl L/d		GRIP 197/144
TCLL (roof) TCDL	10.0 Lumber DOL	1.15 1.15	BC 0	.17 Vert(L .10 Vert(1	ΓL) r	n/a - n/a -	n/a 999 n/a 999		197/144
BCLL BCDL	0.0* Rep Stress Incr 10.0 Code	YES IRC2018/TPI2014	WB 0 Matrix-S	.08 Horiz	(TL) 0.	00 5	n/a n/a	Weight: 37 lb	FT = 10%
BOT CHORD 6-0-0 oc pu Rigid ceilin bracing. REACTIONS (Ib/size) 1 Max Horiz 1 Max Uplift 8 Max Grav (b.2 b.2 b.2 b.2 b.3 b.4 b.5 b.6 b.6 b.7 b.7	chord live loa 7) * This truss h on the bottor 3-06-00 tall b chord and ar 8) Provide mec bearing plate 1, 126 lb upli 9) This truss is International R802.10.2 ar LOAD CASE(S)	s been designed for a ad nonconcurrent with has been designed for n chord in all areas wh y 2-00-00 wide will fit y other members. hanical connection (by e capable of withstand ft at joint 8 and 125 lb designed in accordanc Residential Code sec nd referenced standar Standard	any other li a live load between th y others) of ing 11 lb up uplift at joir ce with the 2 tions R502.	ve loads. of 20.0psf ngle e bottom truss to lift at joint nt 6. 2018 11.1 and				
FORCES (Ib) - Maxin	num Compression/Maximum								
	4, 2-3=-128/93, 3-4=-124/73								
	, 7-8=-22/63, 6-7=-22/63,								
5-6=-22/63 WEBS 3-7=-214/2	8, 2-8=-282/167, 4-6=-282/1	57						STATE	ADD
NOTES 1) Unbalanced roof live loa	ads have been considered fo	r						ATE OF M	AISSO
 this design. Wind: ASCE 7-16; Vult: Vasd=91mph; TCDL=6 II; Exp C; Enclosed; MV cantilever left and right right exposed; Lumber Truss designed for wind only. For studs expose see Standard Industry of or consult qualified build 	=115mph (3-second gust) .0psf; BCDL=6.0psf; h=25ft; VFRS (envelope) exterior zoi exposed ; end vertical left ar DOL=1.60 plate grip DOL=1. I loads in the plane of the tru d to wind (normal to the face Gable End Details as applica ding designer as per ANSI/Ti bus bottom chord bearing.	Cat. he; d 60 ss), ble,						ST SCOTT SEVE PE-20010	Server



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



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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		FT 400/
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 28 lb	FT = 10%
LUMBER			8) Provide mec	hanical connecti	ion (by oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2			bearing plate	capable of with	standing 4	3 lb uplift at j	joint					
BOT CHORD	2x4 SPF No.2			1, 53 lb uplif	at joint 3 and 21	1 lb uplift a	it joint 4.						
OTHERS	2x3 SPF No.2		9		designed in acco								
BRACING					Residential Cod			and					
TOP CHORD	Structural wood she	athing directly applie	ed or	R802.10.2 a	nd referenced sta	andard AN	ISI/TPI 1.						
	6-0-0 oc purlins.	0 7 11		OAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С										
	bracing.												
REACTIONS	(lb/size) 1=218/10- 4=452/10-	-10-11, 3=218/10-10 -10-11)-11,										
	Max Horiz 1=75 (LC												
	Max Uplift 1=-43 (LC	,	=-21										
	(LC 8)												
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=-151/73, 2-3=-1	50/54											
BOT CHORD	1-4=-14/68, 3-4=-14	/68											
WEBS	2-4=-302/78												
NOTES													
	ed roof live loads have	been considered fo	r										
this design	1.												
2) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)											
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.										The
II; Exp C; I	Enclosed; MWFRS (er	nvelope) exterior zor	ne;									OF	AL AL

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.

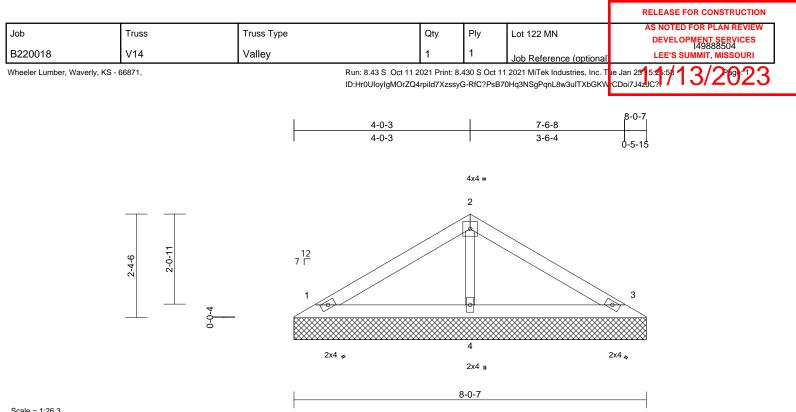
cantilever left and right exposed ; end vertical left and

- 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.

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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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	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	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
OTHERS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	1=171/8-0-7, 3=171/8-0-7,
		4=290/8-0-7
	Max Horiz	1=-54 (LC 4)
	Max Uplift	1=-39 (LC 8), 3=-45 (LC 9)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2=-97/5	0, 2-3=-93/37
BOT CHORD	1-4=-10/4	4, 3-4=-10/44
WEBS	2-4=-202/	52
NOTES		

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

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 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.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1 and 45 lb uplift at joint 3.

This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and

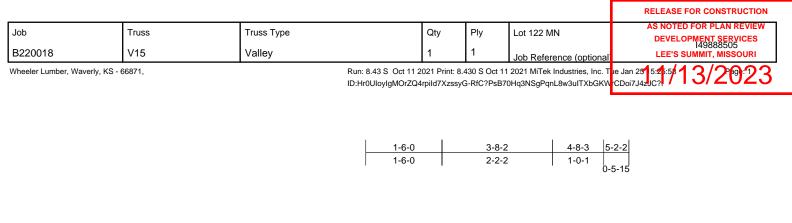
R802.10.2 and referenced standard ANSI/TPI 1.

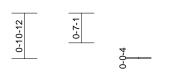
LOAD CASE(S) Standard

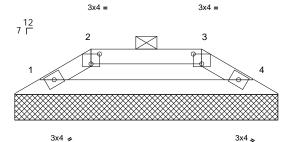




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5-2-2

Scale = 1:22.7	

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

Plate Offsets ((X, Y): [2:0-2-0,0-2-5],	[3:0-2-0,0-2-5]									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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		-					Weight: 11 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2			echanical conne ate capable of w								
BOT CHORD				b uplift at joint 4.	5							
BRACING			10) This truss	is designed in a	ccordance w	ith the 2018						
TOP CHORD	5-3-0 oc purlins, exc	ept	R802.10.2	hal Residential C and referenced	standard AN	ISI/TPI 1.						
BOT CHORD	2-0-0 oc purlins: 2-3 Rigid ceiling directly bracing.			purlin representa ntation of the pu ord.			size					
REACTIONS	(lb/size) 1=188/5-2 Max Horiz 1=-16 (LC Max Uplift 1=-13 (LC	,	LOAD CASE	S) Standard								
FORCES	(lb) - Maximum Com Tension											
TOP CHORD BOT CHORD	, -	21/43, 3-4=-261/54										
NOTES												
 Unbalance this design 	ed roof live loads have n.	been considered fo	or									
	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC		Cat.									
	Enclosed; MWFRS (er left and right exposed											an
	sed; Lumber DOL=1.6										OF	MIG
3) Truss desi	igned for wind loads in	the plane of the tru	SS								TEOF	JUSS SCI
	studs exposed to wind									6	18	1 CAN
	lard Industry Gable En									B	SCOT	ТМ. \72-У

or consult qualified building designer as per ANSI/TPI 1.4) Provide adequate drainage to prevent water ponding.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 4-0-0 oc.

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

SCOTT M. SEVIER NUMBER PE-2001018807 January 27,2022



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