

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

Re: B220013 Lot 141 CB

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: I50049365 thru I50049393

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

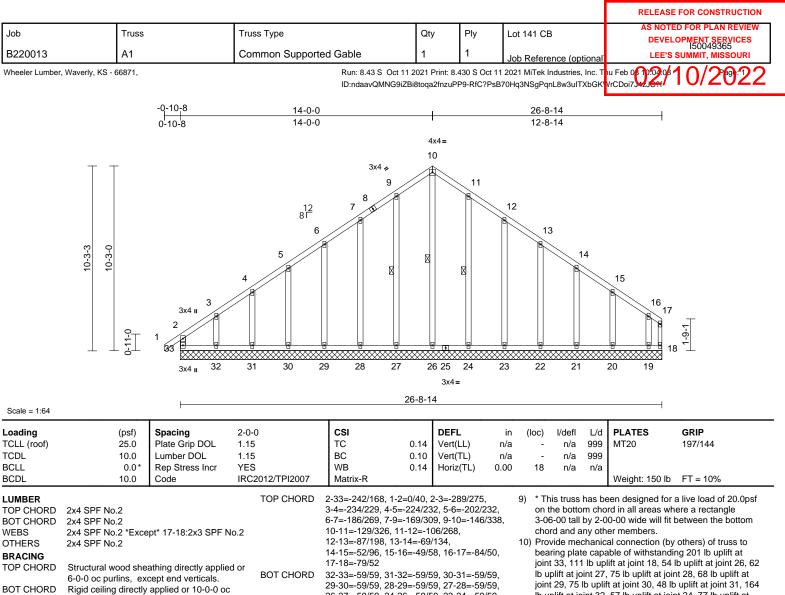
Missouri COA: Engineering 001193



February 4,2022

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



	araonig.		
WEBS	1 Row at	midpt 10-26, 9-27, 11-24	
REACTIONS	(Ib/size)	20=187/26-8-14, 21=178/26-8-14, 22=181/26-8-14, 23=179/26-8-14, 24=187/26-8-14, 26=164/26-8-14, 27=187/26-8-14, 28=179/26-8-14, 29=180/26-8-14, 30=179/26-8-14, 31=184/26-8-14, 32=163/26-8-14,	N
	Max Horiz	33=291 (LC 5)	1)
	Max Uplift	18=-111 (LC 7), 19=-153 (LC 9), 20=-70 (LC 9), 21=-70 (LC 9), 22=-68 (LC 9), 23=-77 (LC 9), 24=-57 (LC 9), 26=-54 (LC 7), 27=-62 (LC 8), 28=-75 (LC 8), 29=-68 (LC 8), 30=-75 (LC 8), 31=-48 (LC 8), 32=-164 (LC 8),	2)
	Max Grav	18=127 (LC 9), 19=223 (LC 16), 20=191 (LC 16), 21=186 (LC 16), 22=187 (LC 16), 23=188 (LC 16), 24=191 (LC 16), 26=332 (LC 9), 27=199 (LC 15), 28=184 (LC 15),	3) 4) 5) 6)

33=294 (LC 16)

(Ib) - Maximum Compression/Maximum

bracing.

Tension

FORCES

	3-4=-234/229, 4-5=-224/232, 5-6=-202/232, 6-7=-186/269, 7-9=-169/309, 9-10=-146/338,
	10-11=-129/326, 11-12=-106/268,
	12-13=-87/198, 13-14=-69/134,
	14-15=-52/96, 15-16=-49/58, 16-17=-84/50,
	17-18=-79/52
OT CHORD	32-33=-59/59, 31-32=-59/59, 30-31=-59/59,
	29-30=-59/59, 28-29=-59/59, 27-28=-59/59,
	26-27=-59/59, 24-26=-59/59, 23-24=-59/59,
	22-23=-59/59, 21-22=-59/59, 20-21=-59/59,
	19-20=-59/59, 18-19=-59/59
VEBS	10-26=-308/94, 9-27=-159/86, 7-28=-144/99,
	6-29=-147/92, 5-30=-149/97, 4-31=-144/83,
	3-32=-185/144, 11-24=-151/81,
	12-23=-147/101, 13-22=-147/93,
	14-21=-146/93, 15-20=-152/97,
	16-19=-147/122

OTES

Unbalanced roof live loads have been considered for this desian.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=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 DOI = 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 2-0-0 oc. 7)
- This truss has been designed for a 10.0 psf bottom 8) chord live load nonconcurrent with any other live loads.

OF MISS SCOTT M. SEVIER NUMBER ROFF PE-2001018807 SSIONAL February 4,2022

Ib uplift at joint 32, 57 lb uplift at joint 24, 77 lb uplift at

joint 23, 68 lb uplift at joint 22, 70 lb uplift at joint 21, 70

Ib uplift at joint 20 and 153 lb uplift at joint 19.

LOAD CASE(S) Standard



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 141 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 150049366
B220013	A2	Common	2	1	Job Reference (optional	I50049366 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,				I1 2021 MiTek Industries, Inc. T PsB70Hq3NSgPqnL8w3uITXbG	
	-0-10-8 - - - 0-10-8		-0-0 -3-0	<u>21-3</u> 7-3		8-14 5-14
т	Ŧ		5x5= 5			
		8 ¹² 3x6 ≠			<	
r r		3x4 ≠ 3 4 3 1			3x5 、 6	
10-3-3	-					24
	⊥ 5⊥ fi2 3x10=	田 11 3x4=	13	10 14 3x6=	9 3x4=	∰ 8 ⊥3x5=
	 	9-4-0	<u>18-8-0</u> 9-4-0		<u>26-8-14</u> 8-0-14	
Scale = 1:65.1						

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	0.71	Vert(LL)	-0.30	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	-0.47	9-11	>676	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horiz(TL)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.04	9-11	>999	240	Weight: 117 lb	FT = 10%

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2 *Except* 11-5,9-5,8-7:2x4 SPF
	No.2, 12-2:2x6 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 3-12, 6-8
REACTIONS	(lb/size) 8=1185/ Mechanical,
	12=1265/0-3-8
	Max Horiz 12=292 (LC 5)
	Max Uplift 8=-128 (LC 9), 12=-161 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/43, 2-3=-593/218, 3-5=-1394/291,
	5-6=-1306/272, 6-7=-178/73, 2-12=-556/215,
	7-8=-198/81
BOT CHORD	11-12=-227/1338, 9-11=-17/868,
	8-9=-103/1041
WEBS	3-11=-378/302, 5-11=-165/691,
	5-9=-143/526, 6-9=-242/271, 3-12=-1085/52,
	6-8=-1329/124
NOTES	

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

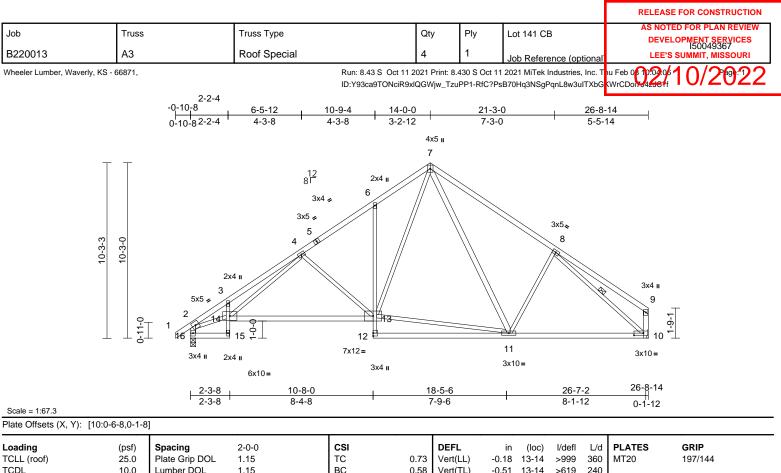
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at

joint 12 and 128 lb uplift at joint 8.

LOAD CASE(S) Standard







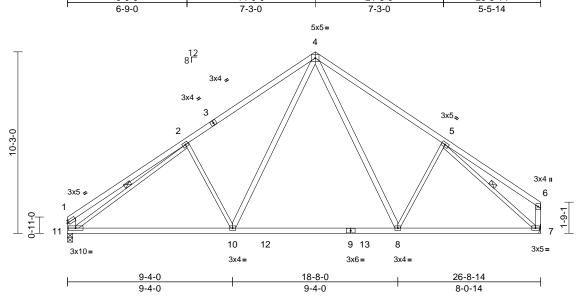
TCDL	10.0	Lumber DOL	1.15		BC	0.58	Vert(TL)	-0.51	13-14	>619	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.67	Horiz(TL)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2012	2/TPI2007	Matrix-S		Wind(LL)	0.09	13-14	>999	240	Weight: 125 lb	FT = 10%
FORCES TOP CHORD BOT CHORD WEBS NOTES	SPF No.2 Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 11 1 Row at midpt (lb/size) 10=1189/ 16=1263/ Max Horiz 16=291 (I Max Uplift 10=-128 ((lb) - Maximum Com Tension 1-2=0/40, 2-3=-2454 4-6=-1454/233, 6-7= 7-8=-1303/270, 8-9= 2-16=-1242/197, 9-1 15-16=-97/130, 14-1 3-14=-242/158, 13-1 12-13=0/132, 6-13== 10-11=-103/1047	É 2100F 1.8E spt* 11-7,16-2,10-9:2: athing directly applie cept end verticals. applied or 10-0-0 oc -12. 8-10 Mechanical, 0-3-8 _C 5) [LC 9), 16=-160 (LC 8 pression/Maximum 4/393, 3-4=-2554/512 =-1392/347, =-193/71, 10=-206/80 15=-33/68, 14=-269/1493, -240/167, 11-12=-20/ 4=-255/998, 11-13=0/ I=-154/353, 4=-377/1990,	(4 3) d or 4) 5) 6) 8) LO 18,	(IRC2012)=9 Cat. II; Exp C zone; cantile and right exp DOL=1.60 This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to girdt Provide mec bearing plate	7-10; Vult=115 11mph; TCDL=6 2; Enclosed; Mi ver left and righ oosed; Lumber l is been designe ad nonconcurre has been design in chord in all ar by 2-00-00 wide of the membe er(s) for truss to hanical connec capable of witi 128 lb uplift at ju Standard	6.0psf; BCE WFRS (env at exposed DOL=1.60 ad for a 10.1 at with any hed for a liv eas where will fit betw ers. o truss conr tion (by oth histanding 1	DL=6.0psf; h=: elope) exteric ; end vertical plate grip 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto nections. ers) of truss t	or left ds. Dpsf om				STATE OF M STATE OF M SEVI SEVI PE-2001	I M. BER Serutt
this design	n.										YY.	-2001	1000/ 180

this design.

SSIONAL ET February 4,2022



								RELEASE FOR CONSTRUCTION
Job	Truss	Trus	ss Type		Qty	Ply	Lot 141 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 150049368
B220013	A4	Cor	mmon		1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS - 66871, Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu ID:0Ld_oVT18wqIm4KcqDE9XgzuPP0-RfC?PsB70Hq3NSgPqnL8w3uITXbG KV							uu Feb 060:00610/20922	
		6-9-0	14	1-0-0	1	21-3-0	26-8-14	



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	0.70	Vert(LL)	-0.30	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	-0.47	8-10	>674	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horiz(TL)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.04	8-10	>999	240	Weight: 115 lb	FT = 10%

LUMBER	
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Scale = 1:65.1

LOWIDEN	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x3 SPF No.2 *Except* 10-4,8-4,7-6:2x4 SPF
	No.2, 11-1:2x6 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 2-11, 5-7
REACTIONS	(lb/size) 7=1186/ Mechanical,
	11=1186/0-3-8
	Max Horiz 11=279 (LC 5)
	Max Uplift 7=-128 (LC 9), 11=-136 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-493/147, 2-4=-1402/293,
	4-5=-1308/272, 5-6=-178/73, 1-11=-409/144,
	6-7=-197/81
BOT CHORD	10-11=-230/1348, 8-10=-17/869,
	7-8=-103/1043
WEBS	2-10=-389/306, 4-10=-168/701,
	4-8=-144/526, 5-8=-243/271, 2-11=-1171/96,
	5-7=-1332/125
NOTES	

- NOTES
 Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 11 and 128 lb uplift at joint 7.

LOAD CASE(S) Standard





									RELEASE	FOR CONSTRUCTION	
Job	Truss		Truss Type		Qty	Ply	Lot 141 CB			OFOR PLAN REVIEW	7
B220013	A5		Roof Special Girder	r	1	1	Job Referen	nce (optional)		DPMENT SERVICES 150049369 SUMMIT, MISSOURI	
Wheeler Lumber	r, Waverly, KS - 66871,			Run: 8.43 S Oct 11			1 2021 MiTek Ind	dustries, Inc. T		0/2022	(
		1-10-8		ID:UYBM?rUfvDy9C	EvoOxmO3u	zuPP?-RfC?I	PsB70Hq3NSgP	qnL8w3ulTXb	SKWrCDoir J4zJC?f		
			<u>10-8</u> 5-6-12 8-9-0 -0-0 1-8-3 3-2-4	<u>16-0-0</u> 7-3-0		23-3- 7-3-7		<u>28-8-14</u> 5-5-7			
		0-10-8 2- 1-10-8	0-0 1-0-3 3-2-4	7-3-0	5x5=	7-3-1		5-5-7			
					7						
				/							
					´ // \\						
	- - -		3х	10 #	// ``		3x10	0.			
	10-3-3 10-3-0 8-1-0	12 8F	3x4 n 6		/			3			
	-01	6x6=	4x8 ø								
	5 0	5x6 ≠	5						3x4 II		
	⊤ 2-0-5 11-00-11-00-11-00-11-00-11-00-11-00-10-1	2 							9		
	1-0- -1-0-					N	¥				
		5 [⊥] ⁴ 7 8 13	8x8=	13 19		2012	11		110 ⊥ 占⊥ 3x5=		
			IS 5x14 =	4x8=		3x4=					
		5 12	2x4 II				3x4=				
		12 2-4-12 0-3-8	5-5-8 11-1-1	3	20-8-0			28-8-14			
		0-3-8	3-0-12 5-8-5		9-6-3			8-0-14			
Scale = 1:75 Plate Offsets (X, Y): [2:0-2-9,0-2-8],	2-1-4 . [3:0-3-6.Edge]. [15:0)-3-12.Edge]								-
							in (1.5.5)	1/-1-41 1/-1	DI ATEO		-
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	TC	0.95 Vert		. ,	l/defl L/d >999 360	PLATES MT20	GRIP 197/144	
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 NO		0.66 Vert 0.73 Hori:	. ,	.63 11-13 .17 10	>546 240 n/a n/a	MT18HS	197/144	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S	Wind	. ,		>999 240	Weight: 131 lb	FT = 10%	_
LUMBER				7-10; Vult=115mph (
TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF 2100F 1.8E	E *Except* 17-16:2x4	Cat. II; Exp (1mph; TCDL=6.0psf; C; Enclosed; MWFRS	(envelope)	exterior	;				
WEBS	SPF No.2, 5-14:2x3 2x3 SPF No.2 *Exce		,	ver left and right expo osed; Lumber DOL=	,						
	13-7,11-7,17-2,10-9	1	DOL=1.60	quate drainage to pre							
BRACING TOP CHORD	Structural wood she	athing directly applied	d. 4) All plates are	MT20 plates unless	otherwise i	ndicated.					
		s, and 2-0-0 oc purlins	5) This truss ha	is been designed for ad nonconcurrent with							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	/	nas been designed fo n chord in all areas w							
	bracing, Except: 8-8-14 oc bracing: 1	15-16.	3-06-00 tall t	by 2-00-00 wide will fi	t between t	he bottom					
WEBS REACTIONS	1 Row at midpt	8-10 Mechanical,	Refer to gird	ny other members, wi er(s) for truss to truss	connectior	ns.					
	17=1353/	/0-3-8		int(s) 17 considers pa FPI 1 angle to grain fo							
	Max Horiz 17=292 (I Max Uplift 10=-135 (,		ould verify capacity of hanical connection (b							
FORCES	(lb) - Maximum Corr Tension	npression/Maximum	bearing plate	e capable of withstand	ding 200 lb						
TOP CHORD	1-2=0/40, 2-3=-2513	3/461, 3-4=-2761/514	, 10) Graphical pu	135 lb uplift at joint 10 rlin representation do	oes not depi						
	,	=-1432/280, 8-9=-180	/75, or the orienta	ation of the purlin alor 1.	ng the top a	nd/or				90	
BOT CHORD	2-17=-1346/275, 9-1 16-17=-294/355, 15-		11) Hanger(s) or	other connection device ficient to support cond					OF N	ISSO	
	14-15=0/81, 5-15=0 11-13=-34/975, 10-1	/68, 13-14=-41/242,	down and 18	blb up at 1-10-8 on to	op chord, a	nd 8 lb		E		1 CAN	
WEBS	3-16=-228/1424, 4-1	16=-1864/239,		' lb up at 1-10-8 on b tion of such connection				A	SCOTT SEVIE		
	4-15=-1989/419, 13 6-15=-254/1455, 6-1		responsibility 12) In the LOAD	of others. CASE(S) section, loa	ads applied	to the face		-011		· · · · \ × 1	
	7-13=-208/945, 7-11 2-16=-329/1937, 8-1	1=-137/508,	of the truss a	are noted as front (F)				K	ott.	Server	,
	8-11=-228/270	10- 100/101,	LOAD CASE(S) 1) Dead + Ro	Standard of Live (balanced): Lu	mber Incre	ase=1.15.		N	NUMB PE-20010		
NOTES 1) Unbalance	ed roof live loads have	been considered for	Plate Increa	ase=1.15				Ø	AT A	158	
this design				=-70, 2-3=-70, 3-4=-7		7-9=-70,			SIONAL	EN	
			16-17=-2	20, 15-16=-20, 10-14=	-20				and		
									Februar	y 4,2022	



														RELEASE	FOR CONSTRUCTI	ON
Job		Truss		Truss T	уре		Qty	,	Ply	Lo	t 141 CB	5			D FOR PLAN REVIE	
B220013		A6		Roof S	pecial		1		1		h Defere	nee (enti-			DPMENT SERVICES 150049370 SUMMIT, MISSOURI	,
	r, Waverly, KS - 66					Run: 8.43 S Oct 11 2	2021 F	Print: 8.4	130 S Oct 1			nce (option ndustries, l		u Feb 0 10.00		2
						ID:zklkDBVHgX4000	U_xe	Hdc5zuF	PPRfC?F	PsB70	Hq3NSgP	qnL8w3ulT	ТХbG	(WrCDol734238?f	10/202	2
		-0	-10-8 3-7-8	5-7-8	8-9-8	16-0-0		1	23	-3-0		1	28-8	-14		
		0-	-10-8 3-7-8	2-0-0	3-2-0	7-2-8		1	7-	-3-0		I	5-5-	-14		
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					3x4	. //				\sim						
	10-3-0 6-11-0			M18A	HS 4x14 🍃		/	/	$\langle \rangle$		\searrow	3x5💊				
	10-3-3		12 81		5	/						7				
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	3-4-0 0-1-12		+= 5 5 5	3 4 1 1 ⊠ √1		\parallel //				\			$\langle \rangle$	3x4 II		
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	3-2-5 3-2-5	Ŷ <u>⊤</u> 1	2	₽ ⊤ È	314									-9-1	- 9	
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			3x4 II 5x5	= 32	:4 u	12 17 6x10=			181	1 1 8x4=	0			3x5=		
			_⊔5 12	5x12=		0					x4=					
				5-5-8	11-1-9	1	20	-8-0			1	28-8-	-14	1		
Scale = 1:69.5			0-3-82-8-5 0-3-8 2-4-13	2-9-3	5-8-1	1		-6-7				8-0-				
Plate Offsets (2	X, Y): [3:0-3-0	,0-2-3], [12														
Loading		(psf) S	pacing	2-0-0		CSI		DEFL	-	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)			Plate Grip DOL	1.15			0.82	Vert(L	,		10-12		360	MT20	197/144	
TCDL BCLL			umber DOL Rep Stress Incr	1.15 YES).63).86	Vert(1 Horiz(,	0.62 0.15	10-12 9		240 n/a	M18AHS	142/136	
BCDL		10.0 C	Code	IRC201	2/TPI2007	Matrix-S		Wind((LL)	0.11	4	>999	240	Weight: 133 lb	FT = 10%	
LUMBER TOP CHORD	2x4 SPF No.2	2		2)		7-10; Vult=115mph (3 1mph; TCDL=6.0psf;				ŧ.						
BOT CHORD	2x4 SPF No.2	2 *Except*	4-13:2x3 SPF N	o.2,	Cat. II; Exp 0	; Enclosed; MWFRS	(enve	elope) (exterior	,						
WEBS	13-11,11-9:2x 2x3 SPF No.2		00F 1.8E 12-6,10-6,9-8:2x	4	and right exp	ver left and right expo osed; Lumber DOL=1				L						
BRACING	SPF No.2, 16	6-2:2x6 SP	F No.2	3)	DOL=1.60 Provide adeo	quate drainage to prev	/ent v	vater p	onding.							
TOP CHORD			ing directly applie	ed, 4)	All plates are	MT20 plates unless on some second sec	other	wise in	dicated.							
	except end ve (3-4-13 max.)		nd 2-0-0 oc purlin	5 /	chord live loa	ad nonconcurrent with	any	other li	ve loads.							
BOT CHORD	Rigid ceiling obracing.	directly ap	plied or 9-3-8 oc	6)		nas been designed for n chord in all areas wl				f						
WEBS	1 Row at mid	lpt 4-1	12, 7-9			by 2-00-00 wide will fit by other members, wit										
REACTIONS		1275/ Meo =1355/0-3		7)	Refer to gird	er(s) for truss to truss	conn	ections	S.							
	Max Horiz 16			8)	using ANSI/	int(s) 16 considers pa TPI 1 angle to grain fo	rmula	a. Build	ding							
FORCES			9), 16=-184 (LC 8 ession/Maximum) 9)		uld verify capacity of hanical connection (by										
TOP CHORD	Tension 1-2=0/43 2-3	8=-2531/43	20, 3-4=-2739/406	,	bearing plate	capable of withstand 133 lb uplift at joint 9.										
	4-5=-1743/24	3, 5-6=-16	680/332,) Graphical pu	rlin representation do				•						
	6-7=-1427/27 2-16=-1362/2	280, 8-9=-´	198/82		or the orienta bottom chore	ation of the purlin alon I.	g the	top an	nd/or						an .	
BOT CHORD	15-16=-313/3 13-14=0/77, 4		=-406/2029, /95, 12-13=-38/23	_{30,} LC	DAD CASE(S)									GR OF M	AISSOL	
WEBS	10-12=-32/96 3-15=-84/421	64, 9-10=-1	107/1137										6			
WED3	12-14=-422/2	2589, 4-12	=-1411/237,										B	SCOTT SEVI		
	5-12=-430/28 6-10=-135/51												8+			3
NOTES	7-9=-1459/12												84	latt:	Somer	
		ls have be	en considered for										87	PE-20010	18807	
this design	1.												S	NY ON	1×B	
														S'SIONA	LENG	
														and		
														Februar	y 4,2022	



												RELEAS	SE FOR CONSTRUCTIO	л
Job		Truss		Truss Ty	ре		Qty	Ply	/	Lot 141 CE	3		TED FOR PLAN REVIE	N
B220013		A7		Roof Sp	pecial		1	1		Job Roford	ence (optional	1.000	ELOPMENT SERVICES 150049371 S SUMMIT, MISSOURI	
Wheeler Lumbe	r, Waverly, KS -	66871,				Run: 8.43 S Oct 11	2021 Pi	rint: 8.430 S	S Oct 11				10/202	2
						ID:RwI6QXWvRrCs	dY3BVN	los9JzuPO	z-RfC?P	sB70Hq3NSg	JPqnL8w3uITXb	GKWrCDoii J42JC	?f IU/202	۲
			-0-10-8 5-4-8		-4-9 10-9)	1	22-3-3	I	28-8-			
			0-10-8 5-4-8	2	-0-0 3-4	-7 5-3-0		4x4=	6-3-3		6-5-1	11		
								6						
	ΤT													
						215			\sim					
	10-3-0	0-8-0				3x5 ≠ 5				3x5	*			
		.,	12 8F	4x8	= 5x6=	A Contraction of the second se					7			
	10-3-3	-12		<u>~</u> 3	4									
	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	-1-0		5					.//					
	4-4-5	o t	3x10 🕫				<u>\</u>		/			4x5 x		
	4		2		15						_		-	
	$\perp \perp$	0-11-0		14 ■								9	1-9-1 	
		0	⊠ 3x4∎ 5x5⊧	= 2x4	13 6x8=	18 19		12 x10=	2	20 11 10 3x4=		3x4 I		
			_15 12	7x12=	0x0=		3	x10=		3x4= 3x	5=			
			0 2 8	5-5-8 ₁ 7	-5-13	16-0-0		1	22-3-3		28-8-	14		
Scale = 1:69.5			0-3-8	2-9-3 2	2-0-5	8-6-3		I	6-3-3	1	6-5-	11		
Plate Offsets (X, Y): [4:0-3-	-0,0-2-3],	[8:Edge,0-1-12]											
Loading		(psf)	Spacing	2-0-0		CSI		DEFL		in (loc)	l/defl L/d		GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15				Vert(LL) Vert(TL)		19 12-13 17 12-13	>999 360 >730 240		197/144	
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	YES	/TPI2007	WB Matrix-S		Horiz(TL) Wind(LL)		12 9)9 12-13	n/a n/a >999 240		b FT = 10%	
		10.0	Code			7-10; Vult=115mph		()	-	12-13	2999 240	Weight. 120 li	5 FT = 1078	—
LUMBER TOP CHORD	2x4 SPF No			,	(IRC2012)=9	1mph; TCDL=6.0psf	; BCDL	.=6.0psf; I	h=25ft;					
BOT CHORD WEBS	2x3 SPF No	o.2 *Exce	pt* 3-14:2x3 SPF No pt* 17-2:2x6 SPF No		zone; cantile	C; Enclosed; MWFRS ver left and right exp	osed;	end vertic						
BRACING	9-8:2x4 SPI	F No.2			and right exp DOL=1.60	oosed; Lumber DOL=	⊧1.60 pl	ate grip						
TOP CHORD			athing directly applie			quate drainage to pre is been designed for								
	2-0-0 oc pu	ırlins (4-4	xcept end verticals, a -3 max.): 3-4.	E)	chord live loa	ad nonconcurrent wit	h any c	other live l	oads.					
BOT CHORD	Rigid ceiling bracing, E		applied or 10-0-0 oc	; 5)	on the botton	n chord in all areas w	vhere a	rectangle	; ;					
	9-9-9 oc bra 6-0-0 oc bra	0			chord and an	by 2-00-00 wide will fing other members, with the second sec	ith BCE	DL = 10.0p						
WEBS REACTIONS	1 Row at m (lb/size) 9		5-12, 7-12 ⁄lechanical,	6) 7)	Bearing at jo	er(s) for truss to truss int(s) 17 considers p	arallel t	to grain va						
REACTIONS	`໋໌1	17=1355/0	0-3-8			PI 1 angle to grain for ould verify capacity of								
	Max Horiz 1 Max Uplift 9		C 9), 17=-184 (LC 8)) 8)		hanical connection (b capable of withstan		,						
FORCES	(lb) - Maxim Tension	num Com	pression/Maximum	0)	joint 17 and '	133 lb uplift at joint 9. rlin representation do								
TOP CHORD			9/409, 3-4=-1787/319 - 1212/242		or the orienta	ation of the purlin alo								
	6-7=-1242/2	256, 7-8=	-1486/176,	LO	bottom chord AD CASE(S)							~~~~	ADD	
BOT CHORD)=-1212/166 ·16=-334/1912,									E OF	MISSO	
			=-61/1029, 13-14=-22 D-12=-71/1147,	2/47,							E	1221	N S	
WEBS	9-10=-43/10	04	5=-271/2051,								A	*	TT M.	
VILDO	4-15=-199/2	228, 4-13	8=-1532/362,								280		line line	K
	5-13=-127/7 6-12=-149/8	873, 7-12	2=-389/220,								- A	COL	ABER A	
NOTES	7-10=-136/9	91, 2-16=	-92/1683, 8-10=-61/	1073							Ø.		1018807	
1) Unbalance		ads have	been considered for								Y	A BE	OTA	
this desigr	1.											S'SION.	AL E	
												all all	arv 4.2022	

February 4,2022



									RELEASE F	OR CONSTRUCTION	
Job	Tru	SS	Truss Type		Qty	Ply	Lot 141 C	В		FOR PLAN REVIEW	
B220013	A8		Roof Special		1	1	Job Refer	ence (optional		MENT SERVICES 150049372 MMIT, MISSOURI	
Wheeler Lumber	, Waverly, KS - 66871	,		Run: 8.43 S Oct 11 2			1 2021 MiTek	Industries, Inc. T	nu Feb 06 10.09.07	0/2922	J
				ID:v7sUetWXC8KjFie	N33J5hWz	uPOy-RfC?P	sB70Hq3NSgF	PqnL8w3ulTXbG	(WrCDoi)94290? f	OILOLL	
		-0-10-8 2-9-9 	5-6-12 7-1-9 9-1-9 2-9-3 1-6-13 2-0-0	<u> </u>		<u>22-4</u> 6-4-		<u>28-8-</u> 6-4-			
		0-10-8 2 0 0	200 1-0-13 200	0 10 1	4x5=			01			
					7 ক						
				/		\backslash					
	<u>10-3-0</u> 4-7-0		5x6=		//		<u> </u>				
		8		6x8 🕫	/		3	×4 ≈ 8			
	10-3-3 5-8-0 0-1-12					//					
	0	3x5									
	5-6-5	3			_				3х6 ш		
	ਹੈ ਹੈ	5x6 -			\searrow				9 _T		
	-1-0-1-0-1-1-0-0-1-0-	- 1 16					/			o o	
	⊥ ⊥ ;́⊥	- 47	274	3 8 19		12 1	1 20	21	10 °⊥_ 5x5=	← ⊥	
		3x4 II 5x5:		3x10=		3x10=					
		5 12			_	3)	(10=				
		0-3-8 <u>2-8-5</u> 	5-5-8 9-2-13 2-9-3 3-9-5	18-7-				28-8-14 10-1-8			
$\frac{\text{Scale} = 1:69.5}{\text{Plate Offsets (2)}}$	X, Y): [2:0-2-9,0-2	<u>2-4-13</u> -8], [5:0-3-0,0-2-3], [6:0-	-4-0,0-2-1]								-
Loading	(psf)) Spacing	2-0-0	CSI	DE	FL	in (loc)	l/defl L/d	PLATES (GRIP	-
TCLL (roof) TCDL	25.0) Plate Grip DOL	1.15 1.15	тс о	.80 Ver	t(LL) -0	0.20 10-12	>999 360	MT20 1	197/144	
BCLL	10.0 0.0)* Rep Stress Incr	YES	WB 0	.86 Hoi	riz(TL) ().48 10-12).12 10	n/a n/a			
BCDL	10.0) Code	IRC2012/TPI2007	Matrix-S			0.07 12-13	>999 240	Weight: 135 lb	FT = 10%	-
LUMBER TOP CHORD	2x4 SPF No.2		(IRC2012)=	E 7-10; Vult=115mph (3 =91mph; TCDL=6.0psf;	BCDL=6.	0psf; h=25f	t;				
BOT CHORD	2x4 SPF No.2 *E 14-11,11-10:2x4	xcept* 4-14:2x3 SPF No SPF 2100F 1.8E		C; Enclosed; MWFRS lever left and right expo							
WEBS	2x3 SPF No.2 *E		and right ex DOL=1.60	<pre>kposed; Lumber DOL=1</pre>	.60 plate	grip					
BRACING			1) The Febrie	equate drainage to prev ation Tolerance at joint		ponding.					
TOP CHORD	2-2-0 oc purlins,	sheathing directly applie except end verticals, a	nd 5) The solid s	ection of the plate is rec		be placed					
BOT CHORD		(4-5-14 max.): 5-6. ctly applied or 6-0-0 oc	6) Plate(s) at	lice line at joint(s) 11. joint(s) 11 checked for a	a plus or r	ninus 5					
WEBS	bracing. 1 Row at midpt	6-12, 8-10	-	ation about its center. has been designed for a	10.0 psf	bottom					
	(lb/size) 10=12	79/ Mechanical,		bad nonconcurrent with has been designed for			f				
	Max Horiz 17=13	53/0-3-8 2 (LC 5)	on the botte	om chord in all areas wh by 2-00-00 wide will fit	nere a rec	tangle					
FORCES		33 (LC 9), 17=-183 (LC) Compression/Maximum	8) chord and a	any other members, with der(s) for truss to truss	h BCDL =	10.0psf.					
TOP CHORD	Tension 1-2=0/40 2-3=-2	' 562/440, 3-4=-2069/329	10) Bearing at	joint(s) 17 considers pa /TPI 1 angle to grain for	rallel to g	rain value					
	4-5=-2016/390, 5	5-6=-1514/255,	designer st	nould verify capacity of I	bearing si	urface.					
	6-7=-1112/234, 7 8-9=-327/107, 2-		bearing pla	chanical connection (by te capable of withstand	ing 183 lb				ann	12	
BOT CHORD		15-16=-468/2204,	12) Graphical p	d 133 lb uplift at joint 10 ourlin representation do		pict the size			TE OF M	ISSO	
		5=-113/100, 13-14=-22/ I, 10-12=-91/1126	57, or the orier bottom cho	tation of the purlin alon	g the top	and/or		E	SCOTT :	1 CAN	
WEBS	3-16=-72/384, 3- 13-15=-208/1486		LOAD CASE(S					R	SEVIEI		
	5-13=-91/386, 6- 6-12=-843/261, 7	13=-523/156,						80		lin 1	
	8-12=-258/267, 2								NUMB	ter ter	
NOTES	8-10=-1344/126							8	PE-200101	8807	
1) Unbalance this design		ave been considered for						```	1283	ENGL	
and according									SSIONAL	ALSO A	
									February		
											_



TCLL (root) 25.0 Piace Grip DOL 1.15 TC 0.49 Vert(TL) -0.40 11.21 >362 800 MT20 197/144 BCLL 0.00 Rep Siress Incr YES WB 0.95 Vert(TL) 0.48 110 n/a n/a BCDL 0.00 Code IRC2012/TP12007 Marix-S Wind(LL) 0.26 11.21 >398 240 Weight: 135.16 FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 Except '7.45:24 SPF 2100F 10 Wind: ASCE 7-10; Vult=115mph (3-second gust) V Wind(LL) 0.26 Wind(LL) 0.26 1.5 Vert(TL) 0.36 No <									RELEASE FOR CONSTRUCTION
Image: Note of the left The statement name Th	Job	Т	russ	Truss Type		Qty	Ply	Lot 141 CB	DEVELOPMENT SERVICES
Text Class Can table that be able to the lateral mark that the text area mark to the text area of the tex	B220013	A	9	Roof Special		1	1	Job Reference (option	150049373
Number Note of the second problem in the second	Wheeler Lumbe	er, Waverly, KS - 668	71,					1 2021 MiTek Industries, Inc	
Image: specific		-0 0-	-10-8 2-9-9 5-4-8 10-8 2-9-9 2-7-0						
Scale = 1684 24-13 Plate Offset (X, Y): [20-29.0.224] [60-2-10.Edge]. [100-1-5.0-0-15]. [130-6-0.0-4-12]. [17:0-4.0-3-0] Loading TCDL (roof) 25.0 Plate Ging DOL 1.15 TC 0.94 Ver(TL) 0.09 TL 2.86 PLATES GRIP TCDL (roof) 25.0 Itember DOL 1.15 BC 0.07 Ver(TL) 0.09 11:42 2.862 2.40 Weight 135 ib FT 9.77 1.72 2.862 2.40 Weight 135 ib FT = 10% LUMBER TOP CHORD 2:40 SPF No.2 FT 7.82.43 SPF 2400F 2.04 Ft 8.14-122.20 7.72.24 SPF 2400F 2.22.13.72.24 SPF 7.82.43 SPF 2400F 2.22.13.72.24 SPF 7.97.14.115 mb ft 2.862 2.40 Weight 135 ib FT = 10% UNDABIANCES 10.04.04 ASEF 7.40.114-12.116 (11.12.2.12.110 (11.12.11.12.2.12.110 (11.11.12.2.12.11.12.11.12.2.12.11.12.11.12.2.12.1	10-3-3 1-6-0	0 + 44-5 0 0 + 2-4-5 1 0-1-12	3x5 # 5x6 # 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 5 18 0 20 1 18 0 2x4 II 16 2x4 II 7x12= 2x4 II	6 17 17 6 <u>8</u> 10= 15 2x4 II 15-10-4	3 0x 2 = 14 3x4=	- - -	3x5 8 9 11 2x4 II 5L 12	
Plate Offsets (X, Y): [2:0-2:0.0-2:8], [4:0+4:0-3:12], [5:0-2:10.Edge], [10:0-1:5:0-0:16], [13:0-6:0.0-4:12], [17:0-4:0.0-3:0] Loading (eff) Plate Grip DOL 1:15 DCL (root) 2:5:0 10:0 BCL 0:0 ⁻¹ Verift,	Seele - 1:66 4					6-6-0 			<u>-11-15 30-</u> 3-8 H 10-15 0-3-9
TCLL (cool) 25.0 Piace for DOL 1.15 TC 0.44 Vert(TL) -0.40 1.12 >382 360 MTZ0 197/144 BCLL 0.00 Rep Stress inor YES Other Stress inor YES Stress inor YES Stress inor				0-2-10,Edge], [10:0-1-5,0	0-0-15], [13:0-6-0,0-4-	12], [17:0-4	I-0,0-3-0]		
NOTES	BCDL LUMBER TOP CHORD BOT CHORD WEBS BOT CHORD BOT CHORD WEBS JOINTS REACTIONS FORCES TOP CHORD	2x4 SPF No.2 * 1.8E, 8-10:2x4 2x4 SPF No.2 * 1.8E, 8-10:2x4 2x4 SPF No.2 * SPF No.2 * SPF No.2 * No.2 Structural wood except end ver (3-6-5 max.): 4 Rigid ceiling dir bracing. 1 Row at midpt 1 Brace at Jt(s) 13 (lb/size) 10=1 Max Horiz 22=- Max Uplift 10=- (lb) - Maximum Tension 1-2=0/40, 2-3=- 4-5=-2691/451, 6-7=-3441/451, 9-10=-4728/33; 21-22=-271/37, 4-19=-227/159; 17-18=-549/34 14-15=-5/28, 1; 11-12=-243/4110, 3-19=0/556, 5- 5-17=-1719/39, 9-11=0/339, 2-2 15-17=0/226, 6	i.i. Piate Grip DOL Lumber DOL 1.0 Rep Stress Incr Code 2 SPF 2400F 2.0E Except* 20-4,18-16,14-12 7,13-10:2x4 SPF 2100F 1 7 Iscept* 22-2,13-7:2x4 SF d sheathing directly applied Strest Strest d sheathing directly applied or 10-0-0 oc 5. rectly applied or 10-0-0 oc 5-17, 9-13 1349/0-3-8, 22=1423/0-3-8 273 (LC 6) 149 (LC 9), 22=-188 (LC 8 Compression/Maximum -2696/449, 3-4=-3313/527 5-6=-2347/315, 7-9=-3361/331, 9, 2-22=-427/274 4, 20-21=-42/103, 19-20=(2, 18-19=-557/3440, 18, 16-18=0/46, 15-16=-8/2 2-14=0/73, 12-13=-204/40, 143 2, 19-21=-479/2285, 19=-1053/158, 1, 9-13=-1238/546, 21=-294/2024, 6-13=0/911 1-7=-1121/123, 15	1.15 1.15 YES IRC2012/TPI2007 1) Unbalanced this design. 2) Wind: ASCE 22x3 (IRC2012)=S AE Cat. II; EXP DOL=1.60 Cat. II; EXP DOL=1.60 Cat. II; EXP DOL=1.60 Cat. II; EXP DOL=1.60 Cat. II; EXP DOL=1.60 Cat. II; EXP OCL=1.60 Cat. II; EXP OCL=1.60 Cat. II; EXP Cat. II; EXP C	TC (BC (WB (Matrix-S roof live loads have b 7-10; Vult=115mph (11mph; TCDL=6.0psf; C; Enclosed; MWFRS ver left and right expo posed; Lumber DOL= quate drainage to pre- tas been designed for a ad nonconcurrent with has been designed for a ad nonconcurrent with so been designed for a ad nonconcurrent with has been designed for ad nonconcurrent with has been designed for has been designed for	0.94 Verti 0.78 Verti 0.78 Verti 0.95 Verti 0.95 BCDL=6.0 BCDL=6.0 BCDL=6.0 BCDL=6.0 1.60 plate <u>c</u> vent water <u>1</u> a 10.0 psf <u>b</u> a any other r a live load here a rect t between t s parallel to rain formula bearing su y others) of Jing 188 lb wes not depi	$\begin{array}{llllllllllllllllllllllllllllllllllll$.40 11-12 >892 36 .99 11-12 >365 24 .88 10 n/a n .26 11-12 >999 24	S00 MT20 197/144 Weight: 135 lb FT = 10% Weight: 135 lb FT = 10% S00 S00 S00 MT20 S00 MT20 S00 MT20 S00 FT = 10% S00 S00 S00 MT20 S00 FT = 10% S00 S00
	NOTES	14-17=-31/3							Allocation and a second



									RELEASE	FOR CONSTRUCTION
Job	Tru	se	Truss Type		Qty	Ply	Lot 141 CB			
B220013	A1	0	Roof Special		1	1	lob Boforo	nce (optional)		DPMENT SERVICES 150049374 SUMMIT, MISSOURI
Wheeler Lumber, V	Waverly, KS - 6687	1,		Run: 8.43 S Oct 11 2	1 2021 Print: 8	.430 S Oct 11			/ /	0/202
				ID:Fp8y6mN?1SqQp	sj3MY5HC_:	zuPP8-RfC?F	sB70Hq3NSgP	PqnL8w3ulTXb(KWrCDoi7J4zJC?f	0/2022
	-0- <i>*</i>	10-82-2-4 3-7-8 5-7-8	3 10-9-12	16-0-0		23-0-0		3	0-3-8	
	0-1	0'8 2-2-4 '1-5-5' 2-0-0	5-2-4	5-2-4		7-0-0	I.	7	7-3-8	
					5x6 ။ 7					
10-3-3 3-2-5 3-4-0 10-3-0	0-1-12	$8^{12} 6x8 =$ $4x5 \neq 2x4 =$ $7 = 4$ $7 = 4$ $7 = 3$ 2	18AHS 4x14 =	3x5 = 3 13 3x4 =	12 10x12=		11	5 ₅ 9 ≪4 II		0.5-2 0.3-9 5-11-1 0.3-9 5-7-8
	C	$\begin{array}{c} 3x4 \\ 2-3-8 \\ 2-3-8 \\ -2-3-8 \\ -2-3-8 \\ 3-5-5 \end{array}$	<u>10-9-12</u> 5-1-0	<u>16-6-0</u> 5-8-4		<u>23-0-</u> 6-6-0			4xe <u>11-15 30-</u> 3 11-15 0-3	0 0
Scale = 1:65 Plate Offsets (X,	, Y): [4:0-4-0,0-1	1-9], [10:0-1-5,0-0-15], [1:	2:0-6-0,0-3-13], [15:0-5-	12,0-2-8]						
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	1.8E, 8-10:2x4 S 2x4 SPF 2100F SPF No.2 2x3 SPF No.2 *E No.2 Structural wood except end vertii (2-9-9 max.): 4-5 Rigid ceiling dire	0 Plate Grip DOL 0 Lumber DOL 0* Rep Stress Incr 0 Code Except* 7-8:2x4 SPF 210 SPF 2400F 2.0E 1.8E *Except* 16-15:2x4 Except* 12-7,16-2:2x4 SF sheathing directly applied cals, and 2-0-0 oc purling	OF (IRC2012)=5 Cat. II; Exp (zone; cantile and right exp DOL=1.60 3) Provide ade 4) All plates are 5) This truss h chord live loc 6) * This truss h on the bottom	BC 0 WB 0 Matrix-S 7-10; Vult=115mph (3 91mph; TCDL=6.0psf; C; Enclosed; MWFRS ver left and right expo boosed; Lumber DOL=1 quate drainage to prev a MT20 plates unless of as been designed for a ad nonconcurrent with has been designed for m chord in all areas wh	Wind B-second g BCDL=6.0 (envelope) sed; end .60 plate g rent water therwise i 1 0.0 psf b any other a live load here a rect	(LL) -0 (TL) -0 z(TL) 0 d(LL) 0 ust) V psf; h=25ft; pexterior vertical left grip ponding. ndicated. pottom live loads. of 20.0psf angle		l/defl L/d >911 360 >397 240 n/a n/a >999 240	PLATES MT20 M18AHS Weight: 111 lb	GRIP 197/144 142/136 FT = 10%
WEBS REACTIONS (II N N	/lax Horiz 16=-2 /lax Uplift 10=-1	9-12 349/0-3-8, 16=1423/0-3-8 72 (LC 6) 49 (LC 9), 16=-188 (LC 8 Compression/Maximum	chord and an 7) Bearing at jo using ANSI/ designer sho 8) Provide med	by 2-00-00 wide will fit ny other members. iint(s) 10 considers pai TPI 1 angle to grain for build verify capacity of I shanical connection (by e capable of withstand	rallel to gra rmula. Bui bearing su / others) of	ain value ilding rface. f truss to				
TOP CHORD	4-5=-4024/602, 6-7=-2955/274,	7-9=-3455/328,	, 9) Graphical pu or the orienta bottom chore		es not depi					
BOT CHORD	15-16=-237/289 13-14=-698/419 11-12=-242/411 3-15=-63/76, 4-1 4-14=-391/2822 5-13=-628/224,	, 5-14=-2500/413, 6-13=0/365, 6-12=-927/3 , 9-12=-1132/528,	LOAD CASE(S) 61,	Standard				K		
	l roof live loads h	ave been considered for						- A	PE-20010 Februar	ENGINE

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



													RELE	ASE FOR CONSTRUCTION	ол
Job		Truss		Truss Ty	pe		Qty	Р	ly	Lot 141 C	В			OTED FOR PLAN REVIE VELOPMENT SERVICES 150049375	
B220013		A11		Roof Sp	becial Girder		1	1		Job Refer	ence (op	tional		I50049375 E'S SUMMIT, MISSOURI	
Wheeler Lumber	r, Waverly, KS - 6	6871,				Run: 8.43 S Oct 1 ID:cmxrAUR8s?Siv									2
		-0-10 	0 10 0	<u>9-8-</u> 5-9-		16-0-0 6-4-0	5x6 II	22UPP3-	<u>23-5-0</u> 7-5-0		qn_8w3u11	30	- <u>3-8</u> 10-8		
10-3-3	2-0-5-10-10-3-0 2-0-5-10-1-12 0-11-00-1-12 0-11-00-1-12	1 0-1-12 2 日 2 日	1513 3x4 II MT18HS 7x12 =		3x5. 5 12 3x4 = 12 12		6 11 10x1	2=	23-5-1	3x4s 7 7	8 8 0 2x4 ⊪	29-1		1±5 0 − 5 − 6 0 − 5 − 2 0 − 3 − 9 0 − 1	
Scale = 1:67.3			2-3-8	7-4-8		6-10-0			6-11-0		1	6-6	-15 0	₩ -3-9	
-	(X, Y): [3:0-3-6	,Edge],	[9:0-1-5,0-0-15], [11:	0-6-0,0-3-	13], [13:0-7-12	2,0-2-0]									
Loading TCLL (roof) TCDL BCLL BCDL	:	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2012	/TPI2007	CSI TC BC WB Matrix-S	0.96 V 0.64 V 0.77 H	EFL ert(LL) ert(TL) oriz(TL /ind(LL	-0. _) 0.	in (loc) 39 11-12 90 10-11 79 9 27 11-12	l/defl >934 >398 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS MT18HS Weight: 109	GRIP 197/144 142/136 197/144 Ib FT = 10%	
LUMBER TOP CHORD	1.8E, 6-7,7-9	:2x4 SF	ept* 4-6:2x4 SPF 2100 PF 2400F 2.0E	2))F	(IRC2012)=9 Cat. II; Exp C	7-10; Vult=115mph 1mph; TCDL=6.0ps ;; Enclosed; MWFR ver left and right exp	sf; BCDL= S (envelo	6.0psf; pe) ext	h=25ft; terior						
BOT CHORD	SPF No.2		E *Except* 14-13:2x4	-	,	osed; Lumber DOL	· · ·		carien						
WEBS	2x3 SPF No.2 No.2	2 *Exce	pt* 11-6,14-2:2x4 SP	3)	Provide adeq	uate drainage to pr									
BRACING TOP CHORD BOT CHORD	except end v (4-9-13 max.) Rigid ceiling bracing, Exc 8-9-8 oc brac	erticals,): 3-4. directly cept: cing: 12		, 5)	The Fabricati This truss has chord live loa * This truss h on the bottom 3-06-00 tall b	MT20 plates unles on Tolerance at join s been designed for d nonconcurrent wi as been designed for a chord in all areas y 2-00-00 wide will y other members.	nt 13 = 2% r a 10.0 p ith any oth for a live h where a r	sf botto er live bad of 2 ectang	om Ioads. 20.0psf Ie						
WEBS REACTIONS	Max Horiz 14	1349/0- =-272 (5-11, 8-11 -3-8, 14=1423/0-3-8 LC 6) C 9), 14=-205 (LC 8)	8)	Bearing at joi using ANSI/T designer sho	nt(s) 9 considers pa PI 1 angle to grain uld verify capacity c	formula. of bearing	Buildin surfac	g e.						
FORCES			pression/Maximum	9)	bearing plate	capable of withstar	nding 205								
TOP CHORD	1-2=0/40, 2-3 4-5=-4235/56 6-8=-3473/33	6, 5-6= 82, 8-9=		,	Graphical pur or the orienta bottom chord		does not c ong the to	p and/o	r					aan	
BOT CHORD		286, 12- 3764, 10	-13=-798/4174, 0-11=-251/4152,	11)	provided suffi down and 18	other connection de icient to support cou Ib up at 1-10-8 on Ib up at 1-10-8 on	ncentrated top chord	d load(s , and 7	s) 41 lb ' lb			Å	172	E MISSOL	
WEBS	3-13=-71/735 4-12=-431/23	5, 4-13= 38, 5-12)07, 8-1	2=0/354, 5-11=-1117/4 1=-1167/555,		design/select responsibility In the LOAD	ion of such connect	tion devic oads appl	e(s) is t ed to tl	the			R	si si	SVIER	
NOTES 1) Unbalance this design		ls have	been considered for	LO 1)	Plate Increa Uniform Loa Vert: 1-2=	f Live (balanced): L se=1.15	-70, 4-6=-				-	A A A	PE-20		V
													Febr	uary 4,2022	



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 141 CB	AS NOTED FOR PLAN REVIEW
B220013	A12	Scissor	1	1	Job Reference (optiona	DEVELOPMENT SERVICES 150049376 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,				11 2021 MiTek Industries, Inc. PsB70Hq3NSgPqnL8w3uITXb	
	7-0-0	14-0-0		6-0	28-3-8	
	7-0-0	7-0-0	7-	6-0	6-9-8	
		5х6 и 4				
0-11-0	4x9 # 1 11 3x5 II	8 ¹² 3x4 = 3x5 = 3 2 10 5x6 = 15 12	-	33	3x5 x4 5 6 8 2x4 II	4x8 %
Scale = 1:63.3	0- <u>3-8 7-0-0</u> 0-3-8 6-8-8	14-6-0 7-6-0		<u>-6-0</u> -0-0	<u>27-11-15</u> 6-5-15	28-3-8
Plate Offsets (X, Y): [7:0-1-	-5,0-1-3], [9:0-4-0,0-3-13]					
Loading	(psf) Spacing	2-0-0 CSI	0 79 Ver			d PLATES GRIP

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	0.79	Vert(LL)	-0.33	8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(TL)	-0.82	9-10	>411	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horiz(TL)	0.75	7	n/a	n/a			
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.21	9-10	>999	240	Weight: 99 lb	FT = 10%	
	2v4 SPE 2100E 1 8E			has been desig			0psf						

TOP CHORD	2x4 SPF 2100F 1.8E
BOT CHORD	
	1.8E
WEBS	2x3 SPF No.2 *Except* 11-1:2x6 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing, Except:
	8-2-15 oc bracing: 9-10.
WEBS	1 Row at midpt 2-9, 6-9
REACTIONS	(lb/size) 7=1256/0-3-8, 11=1256/0-3-8
	Max Horiz 11=-267 (LC 6)
	Max Uplift 7=-143 (LC 9), 11=-141 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
FORCES	(Ib) - Maximum Compression/Maximum Tension
FORCES	Tension
	Tension
	Tension 1-2=-3431/477, 2-4=-2674/223,
	Tension 1-2=-3431/477, 2-4=-2674/223, 4-6=-3069/279, 6-7=-4363/335, 1-11=-1345/271
TOP CHORD	Tension 1-2=-3431/477, 2-4=-2674/223, 4-6=-3069/279, 6-7=-4363/335, 1-11=-1345/271
TOP CHORD	Tension 1-2=-3431/477, 2-4=-2674/223, 4-6=-3069/279, 6-7=-4363/335, 1-11=-1345/271 10-11=-276/641, 9-10=-502/3044, 8-9=-207/3818, 7-8=-204/3818
TOP CHORD	Tension 1-2=-3431/477, 2-4=-2674/223, 4-6=-3069/279, 6-7=-4363/335, 1-11=-1345/271 10-11=-276/641, 9-10=-502/3044, 8-9=-207/3818, 7-8=-204/3818 2-10=-131/127, 2-9=-778/420,
TOP CHORD	Tension 1-2=-3431/477, 2-4=-2674/223, 4-6=-3069/279, 6-7=-4363/335, 1-11=-1345/271 10-11=-276/641, 9-10=-502/3044, 8-9=-207/3818, 7-8=-204/3818

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- Bearing at joint(s) 11, 7 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 141 lb uplift at joint 11 and 143 lb uplift at joint 7.

LOAD CASE(S) Standard





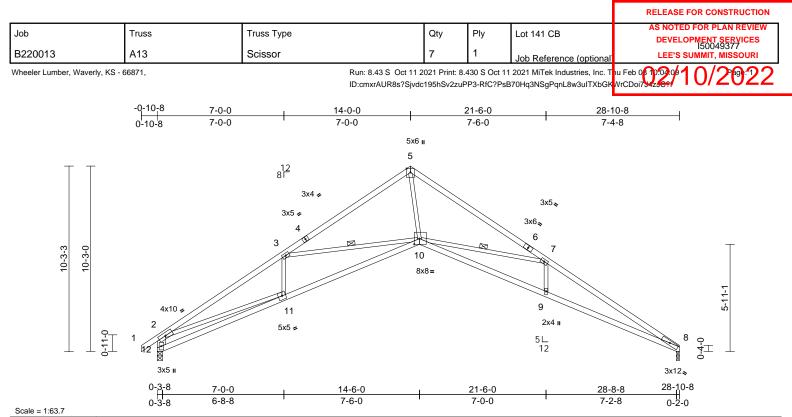
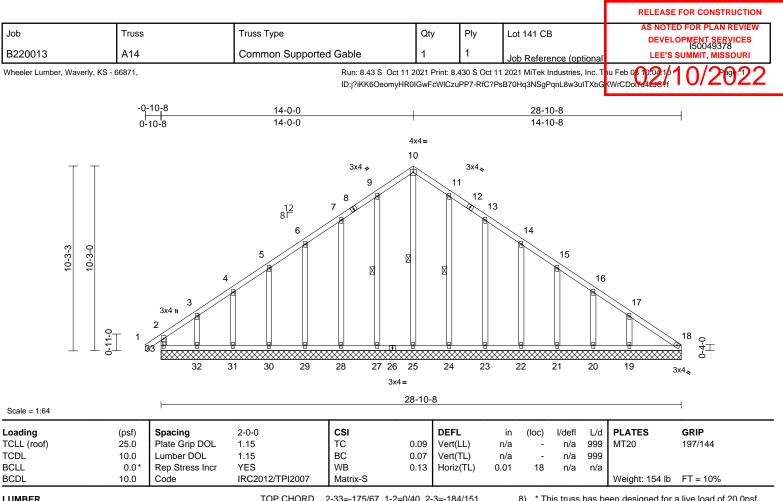


Plate Offsets (X, Y): [10:0-3-8,0-3-12]

	(A, T). [10.0-3-6,0-3-1	2]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2012/	TPI2007	CSI TC BC WB Matrix-S	0.94 0.91 0.93	DEFL Vert(LL) Vert(TL) Horiz(TL) Wind(LL)	in -0.38 -0.91 0.85 0.23	(loc) 9-10 10-11 8 9-10	l/defl >892 >378 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 102 lb	GRIP 197/144 FT = 10%
	10.0	Code	11(02012/	11 12007	Matrix-0		Wind(LL)	0.23	3-10	2000	240	Weight. Toz ib	11 = 1078
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	(lb/size) 8=1284/0 Max Horiz 12=-277 (SPF No.2 pt* 10-8:2x4 SPF 21 pt* 12-2:2x6 SPF No athing directly applie applied or 8-5-2 oc 3-10, 7-10 -2-0, 12=1364/0-3-8 LC 6)	PF 00F 5) 0.2 d, 6) 7) LOA	on the botton 3-06-00 tall b chord and an Bearing at joi using ANSI/T designer sho Provide mecl bearing plate Provide mecl bearing plate	nanical connectio capable of withs 8 lb uplift at joint	is where ill fit betv lers para n formula / of beari n (by oth an (by oth anding 1	a rectangle veen the bott llel to grain v a. Building ing surface. ers) of truss ers) of truss	om alue to					
	Max Uplift 8=-151 (L												
FORCES	(lb) - Maximum Com Tension	ipression/iviaximum											
TOP CHORD	1-2=0/43, 2-3=-3504 5-7=-3201/276, 7-8= 2-12=-1505/331),										
BOT CHORD	11-12=-352/788, 10-	,											
WEBS	9-10=-229/4183, 8-9 3-11=-123/128, 3-10 5-10=-121/2693, 7-1 2-11=-118/2379)=-739/408,	/314,									ATE OF M	AISSOL
NOTES											6	144	
this desigr	ed roof live loads have n. CE 7-10; Vult=115mph									Г	ł.	SCOTT SEVI	
(IRC2012) Cat. II; Ex zone; can and right e DOL=1.60 3) This truss)=91mph; TCDL=6.0ps p C; Enclosed; MWFR tilever left and right exp exposed; Lumber DOL	f; BCDL=6.0psf; h=ź S (envelope) exterio bosed ; end vertical l =1.60 plate grip r a 10.0 psf bottom	eft								S	PE-20010	LENGT

February 4,2022

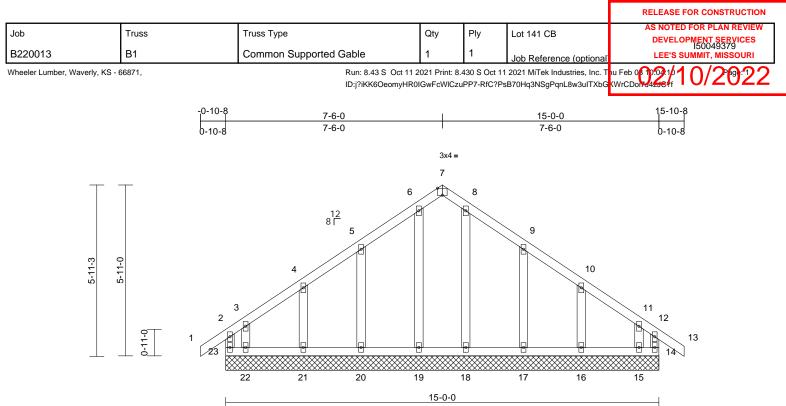




BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Weight: 154 lb FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 18=106/2 20=155/2 22=179/2 24=187/2 27=187/2 29=180/2	athing directly applied cept end verticals. applied or 10-0 oc 10-25, 9-27, 11-24 8-10-8, 19=256/28-10 8-10-8, 23=179/28-10 8-10-8, 23=179/28-10 8-10-8, 28=179/28-10 8-10-8, 32=160/28-10 8-10-8, 32=160/28-10	TOP CHORD d or BOT CHORD 8, 8	2-33=-175/67, 1-2=0/40, 2- 3-4=-117/108, 4-5=-107/10 6-7=-79/175, 7-9=-65/214, 10-11=-67/251, 11-13=-80/ 13-14=-94/181, 14-15=-108 15-16=-122/121, 16-17=-14 17-18=-194/173 30-31=-139/187, 29-30=-11 28-29=-139/187, 27-28=-11 23-24=-139/187, 20-21=-11 23-24=-139/187, 20-21=-11 19-20=-139/187, 18-19=-11 10-25=-217/0, 9-27=-155/8 6-29=-147/92, 5-30=-148/9 3-32=-162/141, 11-24=-155 13-23=-146/99, 14-22=-144 15-21=-151/97, 16-20=-129 17-19=-205/134)1, 5-6=-92/138, 9-10=-54/245, /220, 8/145, 9) 41/127, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 39/187, 20/187, 39/187, 30/187, 30/187, 30/18, 5/86, 6/92,	* 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.
	22=-68 (L 24=-62 (L 28=-75 (L 32=-75 (L 32=-158 (20=160 (l 22=186 (l 24=195 (l 27=195 (l 29=186 (l	C 9), 21=-72 (LC 9), C 9), 23=-75 (LC 9), C 9), 27=-62 (LC 8), C 8), 27=-62 (LC 8), C 8), 31=-49 (LC 8), (LC 8), 33=-77 (LC 4) LC 15), 19=270 (LC 11) LC 16), 23=186 (LC 11) LC 16), 23=186 (LC 12) C 15), 28=186 (LC 12) LC 15), 28=186 (LC 12) LC 15), 28=186 (LC 12) LC 15), 30=189 (LC 12) LC 15), 32=225 (LC 15) LC 16)	 Unbalance this design Wind: ASC (IRC2012) Cat. II; Exp zone; cant and right e DOL=1.60 Truss desi only. For s see Standa or consult All plates a Gable requ Gable stuc This truss 	E 7-10; Vult=115mph (3-sec =91mph; TCDL=6.0psf; BCD o C; Enclosed; MWFRS (envi ilever left and right exposed xposed; Lumber DOL=1.60 p	cond gust) V DL=6.0psf; h=25ft; elope) exterior ; end vertical left plate grip ane of the truss ial to the face), ils as applicable, s per ANSI/TPI 1. se indicated. 'd bearing.	SCOTT M. SEVIER NUMBER PE-2001018807

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16023 Swingley Ridge Rd Chesterfield, MO 63017



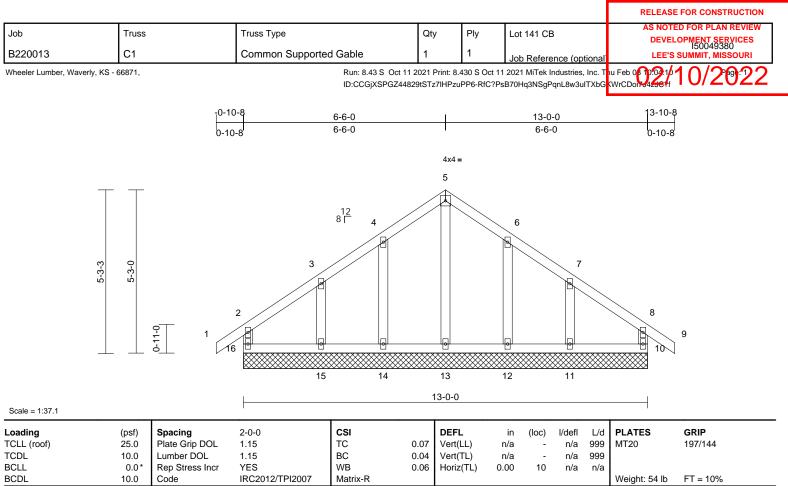
Scale = 1:39.9

Plate Offsets (X, Y): [7:0-2-0,Edge]

	··; ·): [:::= :;=:g:]					_							
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.07	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		BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2012	/TPI2007	Matrix-R							Weight: 67 lb	FT = 10%
	6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 14=121/1 16=186/1 20=182/1 22=83/15 Max Horiz 23=172 (L 16=-65 (L 20=-87 (L 22=-184 (16=190 (L 18=161 (L) 18=161 (L) 20=190 (L)	<pre>/ applied or 6-0-0 oc 5-0-0, 15=83/15-0-0, 5-0-0, 17=182/15-0-0 5-0-0, 21=186/15-0-0 5-0-0, 23=121/15-0-0 LC 7) LC 7) LC 5), 15=-170 (LC 9) .C 9), 17=-88 (LC 9), .C 8), 21=-65 (LC 8), (LC 8), 23=-130 (LC 6)</pre>	1) d or 2) , , , , , , , , , , , , , , , , , ,	TES Unbalanced this design. Wind: ASCE (IRC2012)=5 Cat. II; Exp (Zone; cantile and right exp DOL=1.60 Truss design only. For sti see Standar or consult qu All plates are Gable requir Fruss to be f braced again Gable studs This truss ha chord live lo:	6-19=-131/14, 8-1 4-21=-151/93, 3-2 9-17=-151/112, 10 11-15=-102/120 roof live loads ha 5.7-10; Vult=115m D1mph; TCDL=6.0 C; Enclosed; MWI were left and right i boosed; Lumber D0 hed for wind loads uds exposed to wi a laified building de a 2x4 MT20 unles res continuous boi fully sheathed from spaced at 2-0-0 o as been designed ad nonconcurrent has been designed	22=-114/1 D-16=-15 we been ph (3-sec plsf; BCE FRS (env exposed DL=1.60 in the pl nd (norm End Deta ssigner a: s otherwittom choir one fac ent (i.e. co co. for a 10. with any d for a liv	27, 1/92, considered fo bound gust) V bL=6.0psf; h= elope) exterito plate grip ane of the tru al to the face ils as applica s per ANSI/TI se indicated. d bearing. e or securely liagonal web) D psf bottom other live loa e load of 20.0	r 25ft; or left ss), ble, PI 1. ds.				THE OF I	MISS
FORCES	(lb) - Maximum Con Tension	npression/Maximum		3-06-00 tall I	m chord in all area by 2-00-00 wide w	/ill fit betv	0	om			A	AN SOOT	JOC N
TOP CHORD	2-23=-149/83, 1-2=(3-4=-85/91, 4-5=-73 6-7=-38/95, 7-8=-35 9-10=-53/62, 10-11= 12-13=0/40, 12-14= 22-23=-80/102, 21-2 20-21=-80/102, 19-2	8/71, 5-6=-60/114, 5/92, 8-9=-39/102, =-66/71, 11-12=-132/8 127/55 22=-80/102,	36,	Provide med bearing plate joint 23, 86 l lb uplift at joi joint 17, 65 l 15.	ny other members shanical connectic e capable of withs b uplift at joint 14, int 21, 184 lb uplif b uplift at joint 16	n (by oth tanding 1 87 lb up t at joint 2	30 lb uplift at lift at joint 20, 22, 88 lb uplif	65 t at		é	B	SCOT SEVI NUM PE-2001	BER
	18-19=-80/102, 17- 16-17=-80/102, 15- 14-15=-80/102		LO	AD CASE(S)	Standard						Ø	FESSIONA	L ENGLISH

February 4,2022





LUMBER										
TOP CHORD										
BOT CHORD										
WEBS	2x4 SPF I									
OTHERS	2x4 SPF I	No.2								
BRACING										
TOP CHORD		wood sheathing directly applied or ourlins, except end verticals.								
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.									
DEADTIONO	0	10 100/10 0 0 11 100/10 0 0								
REACTIONS	(lb/size)	10=186/13-0-0, 11=196/13-0-0, 12=183/13-0-0, 13=158/13-0-0,								
		14=183/13-0-0, 15=196/13-0-0,								
		16=186/13-0-0								
	Max Horiz	16=-155 (LC 6)								
	Max Uplift	, ,								
	•	12=-63 (LC 9), 14=-62 (LC 8),								
		15=-105 (LC 8), 16=-50 (LC 9)								
	Max Grav	10=186 (LC 1), 11=228 (LC 16),								
		12=186 (LC 20), 13=178 (LC 18),								
		14=186 (LC 19), 15=234 (LC 15),								
		16=186 (LC 1)								
FORCES	(lb) - Max	imum Compression/Maximum								
	Tension									
TOP CHORD	2-16=-164	4/60, 1-2=0/40, 2-3=-106/85,								
		15, 4-5=-65/150, 5-6=-53/143,								
	6-7=-63/1	08, 7-8=-91/69, 8-9=0/40,								
	8-10=-164	1/55								
BOT CHORD		5/78, 14-15=-65/78, 13-14=-65/78,								
		5/78, 11-12=-65/78, 10-11=-65/78								
WEBS		7/0, 4-14=-149/89, 3-15=-173/120,								
	6-12=-149	9/89, 7-11=-170/119								
NOTES										

NOTES

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

 Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 9) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 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 50 lb uplift at joint 16, 44 lb uplift at joint 10, 62 lb uplift at joint 14, 105 lb uplift at joint 15, 63 lb uplift at joint 12 and 102 lb uplift at joint 11.

LOAD CASE(S) Standard



February 4,2022



										RELEASE	FOR CONSTRUCTION	
Job		Truss		Truss Type		Qty	Ply	Lot 141 CB			D FOR PLAN REVIEW	7
B220013		D1		Common Stru	uctural Gable	1	1	Job Reference	(optional)		DPMENT SERVICES 150049381 SUMMIT, MISSOURI	
Wheeler Lumber	r, Waverly, KS -	- 66871,			Run: 8.43 S Oct 11			2021 MiTek Indust	ries, Inc. T		10/2922	
					ID:q9kCOXjSxcmi9u	xIOXx81Izou	EZ-RfC?PsB	70Hq3NSgPqnL8w3	BulTXbGK\	/rCDoi7J42J C? f	0,2022	
			-0-10-8 	<u>5-11-4</u> 5-11-4	<u> </u>		<u>17-4-12</u> 5-8-12		<u>23-4-0</u> 5-11-4			
			0-10-8	0114	5.0.12	4x8 II	0012		5 11 -	T		
						9						
		8-8-5	3x4 II	4 3 25 24	8 8 7 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	<u> </u>	3x4=	11 12 13 27 27 6 x4=	240	4x9 II 14 15		
Scale = 1:61.2				<u>7-10-3</u> 7-10-3	<u>10-5-12</u> <u>2-7-9</u>	<u>15-8</u> 5-0			<u>3-4-0</u> -10-3			
Loading		(psf)	Spacing	2-0-0	CSI	DEF		in (loc) l/d	efl L/d	PLATES	GRIP	
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		0.32 Vert 0.39 Vert	. ,	09 15-16 >9 21 15-16 >7		MT20	197/144	
BCLL		0.0*	Rep Stress Incr	YES	WB	0.26 Hori	z(TL) 0.	01 15 r	/a n/a	Waight: 122 lb	ET 10%	
BCLL 0.0* Rep Stress Incr YES WB 0.26 Horiz(TL) 0.01 15 n/a n/a BCDL 10.0 Code IRC2012/TPI2007 Matrix-S Wind(LL) 0.03 16-18 >999 240 Weight: 132 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 WEBS 9-30=-180/582, 16-30=-186/610, 16-31=-383/250, 27-31=-281/200, 16-31=-383/250, 27-31=-281/200, 13-27=-313/220, 22-28=-574/35, 9-28=-604/37, 6-29=-224/124, 8-24=-574/35, 9-28=-604/37, 6-29=-224/124, 8-22==-574/35, 9-28=-604/37, 6-29=-224/124, 8-22==-589/94, 21-28=-215/90, 7-29=-103/74, 5-23=-40/128, 4-24=-151/95, 3-25=-173/112, 10-30=-71/42, 18-30=-101/49, 11-31=-118/54 Notes BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. 8-28=-189/94, 21-28=-215/90, 7-29=-103/74, 5-23=-40/128, 4-24=-151/95, 3-25=-173/112, 10-30=-71/42, 18-30=-101/49, 11-31=-118/54 NOTES NOTES BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 10-30=-71/42, 18-30=-101/49, 11-31=-118/54 NOTES 10-10halanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; h=25ft; 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; h=25ft;												
	Max Horiz 2 Max Uplift 1 Max Uplift 1 Max Grav 1 (lb) - Maxim Tension 1-2=0/40, 2 4-5=-9/179 7-8=0/291, 10-11=-422 12-13=-438 2-26=-100/ 25-26=-205	21=15/10- 23=-35/10 25=216/10 25=216/10 22=-80 (L0 22=-80 (L0 22=-80 (L0 22=-80 (L0 22=-80 (L0 23=-95 (L0 25=255 (L0 15=551 (L0 25=255 (L0 10=2555 (L0 10=2555 (L0 10=255 (L0 10=2555 (L0 10=255 (L0 10=2555 (L0 10=25555 (L0 1	LC 9), 21=-93 (LC 20 C 9), 23=-88 (LC 20), C 8), 25=-117 (LC 8), C 20) C 1), 20=358 (LC 1), C 19), 22=849 (LC 1), C 19), 22=849 (LC 1), C 15), 26=107 (LC 1); pression/Maximum 21, 3-4=-40/190, 29, 6-7=0/260, 8, 9-10=-390/270, 12=-394/190, 14=-593/150, =-471/148 25=-205/136, 23=-205/136, 1a=-51/119, 9=-51/118,	and ri DOL= 3) Truss only. see S or cor 4) All pla 5) Truss brace 6) Gable 3) 7) This t chord 8) * Thiss on the 3-O6-1 chord 9) Proviu bearin 26, 84 uplift 24 an	cantilever left and right exp ght exposed; Lumber DOL= :1.60 designed for wind loads in 1 For studs exposed to wind it tandard Industry Gable End sult qualified building desig ates are 2x4 MT20 unless of to be fully sheathed from or d against lateral movement e studs spaced at 2-0-0 oc. russ has been designed for a bottom chord in all areas w 00 tall by 2-00-00 wide will fi and any other members. de mechanical connection (th g plate capable of withstand 0 buplift at joint 22, 103 lb u at joint 21, 88 lb uplift at joint d 117 lb uplift at joint 25. ISE(S) Standard	1.60 plate <u>c</u> he plane of normal to ti Details as her as per / herwise ind he face or s (i.e. diagon a 10.0 psf to h any other t between t between t by others) o ding 95 lb u plift at joint	grip the truss he face), applicable, ANSI/TPI 1. icated. ecurely al web). bottom live loads. I of 20.0psf angle he bottom f truss to plift at joint 15, 93 lb			SCOTI SEVIL SEVIL PE-20010 PE-20010	ER Levier	7

February 4,2022



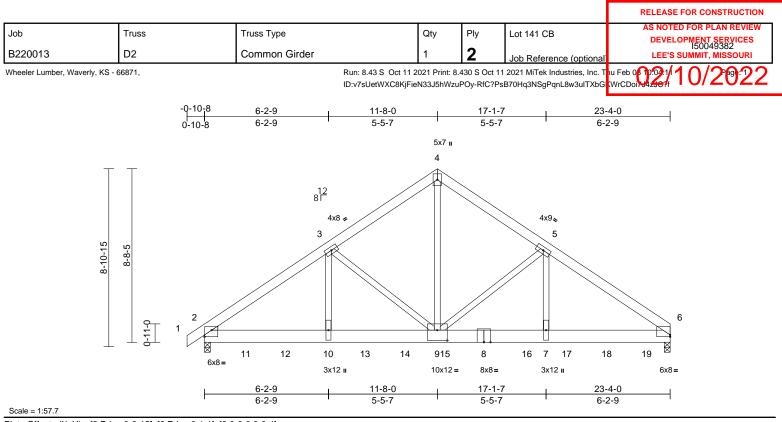
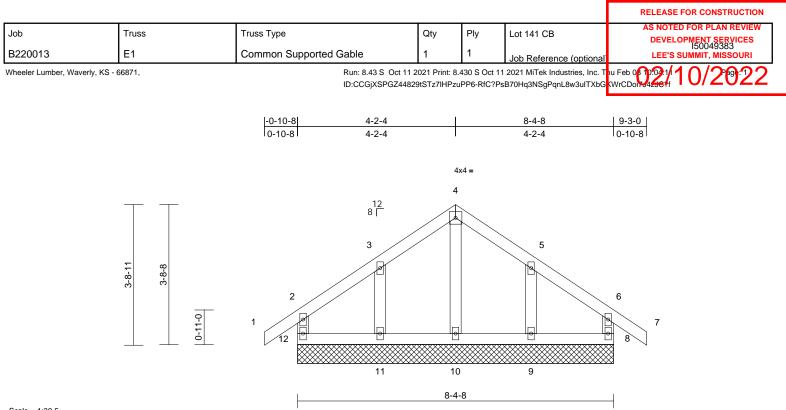


Plate Offsets	(X, Y): [2:Edge,0-3-15], [6:Edge,0-1-1], [9: -	0-6-0,0-6-	4]								-	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.96	Vert(LL)	-0.11	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.58	Vert(TL)	-0.24	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.89	Horiz(TL)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC201	2/TPI2007	Matrix-S	-	Wind(LL)	0.08	9-10	>999	240	Weight: 316 lb	FT = 10%
LUMBER			4)	Wind: ASCE	7-10; Vult=115n	nph (3-sec	ond gust) V						
TOP CHORD	2x6 SPF No.2				91mph; TCDL=6.								
BOT CHORD	2x8 SP 2400F 2.0E				C; Enclosed; MW								
WEBS	2x4 SPF No.2				ver left and right			left					
WEDGE	Left: 2x3 SPF No.2				oosed; Lumber D	OCL=1.60	plate grip						
BRACING			5)	DOL=1.60	a haan daalamaa	d for a 10 () nof hottom						
TOP CHORD		athing directly applie	ed or 5)		as been designed ad nonconcurren			ads.					
BOT CHORD	4-4-3 oc purlins. Rigid ceiling directly	applied or 10-0-0 or	. 6)		nas been designe								
BOT ONORD	bracing.		,		n chord in all are								
REACTIONS	(lb/size) 2=7347/0	-3-8, 6=7997/0-3-8			by 2-00-00 wide		een the bott	om					
	Max Horiz 2=216 (L0		7)		ny other member hanical connection		ore) of truce	to					
	Max Uplift 2=-885 (L	C 8), 6=-933 (LC 9)	()										
FORCES	(lb) - Maximum Compression/Maximum joint 6 and 885 lb uplift at joint 2.												
	Tension		8)		other connection) shall be						
TOP CHORD	,		920,		ficient to support			165					
	4-5=-7037/920, 5-6=			lb down and	140 lb up at 2-0	0-12, 1169	lb down and	140					
BOT CHORD	,				12, 1169 lb dow								
	7-9=-895/8266, 6-7=				n and 140 lb up a								
WEBS	4-9=-890/7284, 5-9=				p at 10-0-12, 11								
	5-7=-371/3877, 3-9= 3-10=-362/3625	=-3041/520,			6 lb down and 1 147 lb up at 16-								
	3-10=-302/3023				2-0, and 1255 lb								
NOTES		the encoded at 0 of			1259 lb down an							COL	Jan
	s to be connected toge ") nails as follows:	ther with 10d			d. The design/se							B & OF I	MISS
	ds connected as follows	2 2 x 6 - 2 rows			he responsibility						6	TATE OF I	NO S
•	d at 0-9-0 oc.	5. 2.40 2.10110	L	DAD CASE(S)	Standard						B	SCOT	TM XP.V
	nords connected as follo	ows: 2x8 - 2 rows	1)	Dead + Ro	of Live (balanced	d): Lumber	Increase=1.	15,			B.	SEVI	
staggered	d at 0-8-0 oc.			Plate Increa	ase=1.15						8		
Web conn	nected as follows: 2x4 -	1 row at 0-9-0 oc.		Uniform Lo	ads (lb/ft)						80		128
	are considered equally				=-70, 4-6=-70, 2-	-6=-20					N V		· San Jak
	noted as front (F) or ba		DAD		ed Loads (lb)						44	M TO TO TO	serving
	section. Ply to ply conr				1166 (B), 10=-11						N	ON PE-2001	018807 / 5 9
	to distribute only loads	noted as (F) or (B),			9 (B), 13=-1169 (-1165			V	15	1SA
	herwise indicated.	hoop considered for			·1259 (B), 17=-12	255 (B), 18	s=-1255 (B),					PE-2001	ENO'S
 Unbalance this design 	ed roof live loads have	been considered to	ſ	19=-125	а (в)							ONA	LEY
uns desig	11.											CINA	TOP

February 4,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

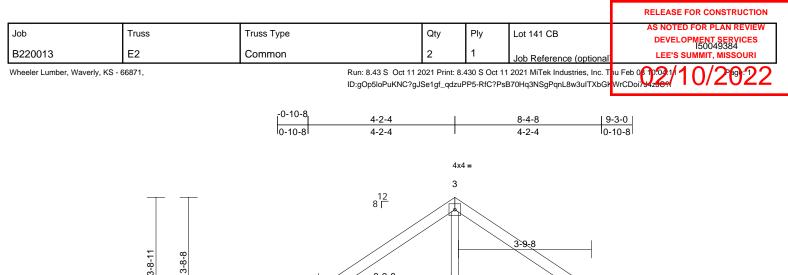


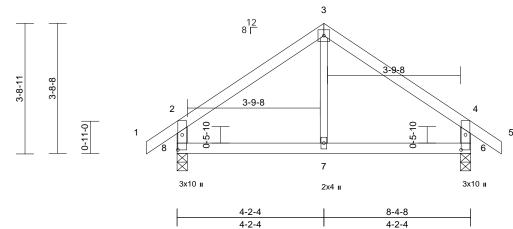
Scale = 1:30.5	5			I									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2012	2/TPI2007	CSI TC BC WB Matrix-R	0.07 0.03 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 33 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheat 6-0-0 oc purlins, ext Rigid ceiling directly bracing. (Ib/size) 8=163/8-4 10=169/8 12=163/8 Max Horiz 12=-115 (Max Uplift 8=-39 (LC (LC 8), 12 Max Grav 8=165 (LC 10=169 (L 12=165 (L 	cept end verticals. applied or 6-0-0 oc 4-8, 9=187/8-4-8, -4-8, 11=187/8-4-8, -4-8 LC 6) 8), 9=-88 (LC 9), 1: 2=-42 (LC 9) C 20), 9=214 (LC 16 C 1), 11=218 (LC 12) -C 19)	4) 5) ed or 6) 7) 8) 9) 1=-90 10), 5),	only. For stu see Standaru or consult qu All plates are Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t chord and ar)) Provide mec bearing plate		ind (norm End Deta esigner a: s otherwittom chor m one fac- ent (i.e. c oc. for a 10. with any d for a liv as where vill fit betv s. on (by oth standing 4	al to the face ils as applical s per ANSI/TK se indicated. d bearing. e or securely iagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 2 lb uplift at j), ble, PI 1. ds. Dpsf om o ont					
FORCES	 (lb) - Maximum Com Tension 1-2=0/40, 2-3=-69/6 4-5=-43/95, 5-6=-60/ 2-12=-146/51, 6-8=- 	5, 3-4=-48/98, /62, 6-7=0/40,											
BOT CHORD	,		57,									OF	MISSO
this desig 2) Wind: AS (IRC2012 Cat. II; Ez zone; car	SCE 7-10; Vult=115mph 2)=91mph; TCDL=6.0ps xp C; Enclosed; MWFR ntilever left and right exp exposed; Lumber DOL=	been considered for (3-second gust) V f; BCDL=6.0psf; h=/ S (envelope) exterio bosed ; end vertical	r 25ft; or									SCOT SEV SEV PE-2001	T M. HER 018807

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



February 4,2022





Scale = 1:	32.9
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Plate Offsets (X, Y): [6:0-5-2,0-1-8], [8:0-5-2,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	-0.02	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R		Wind(LL)	-0.01	7-8	>999	240	Weight: 27 lb	FT = 10%

LUMBER

2x4 SPF No.2
2x4 SPF No.2
2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2
Structural wood sheathing directly applied or
6-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc
bracing.
(lb/size) 6=435/0-3-8, 8=435/0-3-8
Max Horiz 8=-115 (LC 6)
Max Uplift 6=-63 (LC 9), 8=-63 (LC 8)
(lb) - Maximum Compression/Maximum
Tension
1-2=0/40, 2-3=-355/70, 3-4=-355/70,
4-5=0/40, 2-8=-384/96, 4-6=-384/96
7-8=0/232, 6-7=0/232

BOT CHORD 7-8=0/232 WEBS 3-7=0/157

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 8 and 63 lb uplift at joint 6.

LOAD CASE(S) Standard



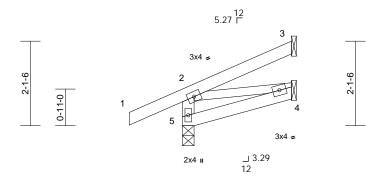


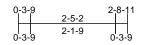
						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	DIV	Lot 141 CB	AS NOTED FOR PLAN REVIEW
300	11055	Truss Type	Qly	FIY	LOI 141 CB	DEVELOPMENT SERVICES 150049385
B220013	J1	Jack-Open Girder	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
						0040000

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 06 10:02:14 10/2 10:02 ID:090510 PuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi7942007







Scale = 1:28.8

00010 = 112010												
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	0.17	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P		Wind(LL)	0.00	5	>999	240	Weight: 11 lb	FT = 10%
LUMBER			6) Provide n	nechanical connecti	ion (by oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2			late capable of with			joint					
BOT CHORD	2x4 SPF No.2		5, 33 lb u	plift at joint 3 and 1	lb uplift at	joint 4.						
VEBS	2x4 SPF No.2 *Exce	pt* 4-2:2x3 SPF No	.2 LOAD CASE	(S) Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	3-0-13 oc purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с									
	bracing.											
REACTIONS	(lb/size) 3=58/ Me	chanical, 4=26/										
	Mechanic	al, 5=248/0-3-8										
	Max Horiz 5=58 (LC	,										
	Max Uplift 3=-33 (LC	3), 4=-1 (LC 8), 5=	-40									
	(LC 8)											
	Max Grav 3=58 (LC (LC 1)	1), 4=52 (LC 3), 5=	248									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	2-5=-222/73, 1-2=0/	41, 2-3=-48/16										
BOT CHORD	4-5=-68/11											
WEBS	2-4=0/63											
NOTES												
1) Wind: ASC	CE 7-10; Vult=115mph	(3-second gust) V										
)=91mph; TCDL=6.0ps											The second
	p C; Enclosed; MWFR										O DE	ALCON D
	tilever left and right exp		left								ALE OF	MISS W
	exposed; Lumber DOL	=1.60 plate grip								6		1.5
DOL=1.60										A	STATE OF	TM. PN
	has been designed for									a,	SEV	IER \ X
	load nonconcurrent wi									84	-/ 52,	1+1
	s has been designed f		Upst							20	1	0 20
on the bot	tom chord in all areas	wnere a rectangle										

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

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

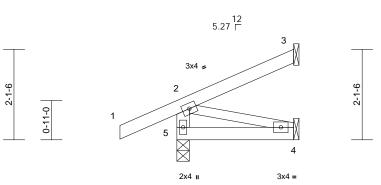
 Bearing at joint(s) for indust of additional to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. February 4,2022

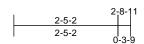


						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Plv	Lot 141 CB	AS NOTED FOR PLAN REVIEW
300	Truss	Truss Type	Qty	FIY		DEVELOPMENT SERVICES 150049386
B220013	J2	Jack-Open Girder	1	1	Job Reference (optional	
Wheeler Lumber, Waverly, KS -						

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 06 10 021 1 0/2 2 1 D:gOp5loPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi794zee?







Scale = 1:26.9

00010 - 1.20.												
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	0.17 0.07	DEFL Vert(LL) Vert(TL)	in 0.00 -0.01	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	NO IRC2012/TPI2007	WB Matrix-P	0.02	Horiz(TL)	0.00	3	n/a	n/a	Weight: 11 lb	FT = 10%
BCDL	10.0	Code	IRG2012/1912007	IVIAUIX-P							weight. This	F1 = 10%
LUMBER												
TOP CHORE BOT CHORE												
WEBS	2x4 SPF No.2 2x4 SPF No.2 *Exce	ont* 4-2:2x3 SPF No	12									
BRACING	274 011 100.2 2000											
TOP CHORE	D Structural wood she	athing directly appli	ed or									
	2-10-14 oc purlins,											
BOT CHORE	D Rigid ceiling directly bracing.	applied or 10-0-0 c	C									
REACTIONS	0	chanical, 4=26/										
REACTION	- ()	al, 5=247/0-3-8										
	Max Horiz 5=58 (LC	8)										
	Max Uplift 3=-33 (LC	C 8), 4=-1 (LC 8), 5=	-41									
	(LC 8) Max Grav 3=58 (LC	1) 4-52 (IC 3) 5-	-947									
	(LC 1)	1), 1=02 (20 0), 0=	211									
FORCES	(lb) - Maximum Corr	npression/Maximum										
	Tension											
TOP CHORE BOT CHORE		41, 2-3=-48/16										
WEBS	2-4=0/65											
NOTES	2 1-0/00											
	SCE 7-10; Vult=115mph	(3-second gust) V										
	2)=91mph; TCDL=6.0ps											an
	Exp C; Enclosed; MWFR										OF	MIG
	ntilever left and right exp t exposed; Lumber DOL		leit								FIE	0.0
DOL=1.6		. The plate grip								B	STATE OF SCOT	N CON
	s has been designed fo									B	SCOT	
	e load nonconcurrent wi									B		
	uss has been designed f ottom chord in all areas		upst							86	1	
	tall by 2-00-00 wide will		om							<u>N</u>	A TIM	Server
	nd any other members.								-	R.	DE 2001	018807

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4. 5)

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



February 4,2022

PE-200101880

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SSIONAL

										RELEASE	FOR CONSTRUCTION	
Job	Truss		Truss Ty	/pe		Qty	Ply	Lot 141 CE	3		D FOR PLAN REVIEW	٦
B220013	V1		Valley			1	1	lob Refere	ence (optional		OPMENT SERVICES 150049387 SUMMIT, MISSOURI	
Wheeler Lumber, Waverly, K	S - 66871,				Run: 8.43 S Oct 11 2			1 2021 MiTek li	ndustries, Inc. T		10/2022	,
					ID:gOp5loPuKNC?gJ	Se1gf_qdz	uPP5-RfC?Ps	B70Hq3NSgPc	nL8w3ulTXbGł	WrCDoi794z 30 94	10/2022	
		1		8-6-2		1		16-7	7-1	17-0-4	1	
				8-6-2				8-0-	15	0-5-3		
						4x4 =						
						3						
	- Τ				/							
							\searrow					
				2x4	+ n /			2>	(4 II			
ß	-4-10			2					4			
5-8-5	2-7			1	~							
		12 8 Г										
		8								$\langle \rangle$		
	\perp	1	<u> </u>	•		•		•	٦.	5		
	- c	(X										
			3x4 🍫	9	10	8		1 7		3x4 👟		
				2x4	+ 11	2x4 ı		2)	(4 II 3x4 =			
Scale = 1:41.8		F				17-0-4						
Loading	(psf)	Spacing	2-0-0		CSI	DE	FL	in (loc)	l/defl L/d	PLATES	GRIP	_
TCLL (roof)	25.0	Plate Grip DO	_ 1.15		TC 0	.22 Vei	rt(LL)	n/a -	n/a 999	MT20	197/144	
TCDL BCLL	10.0 0.0*	Lumber DOL Rep Stress Inc	1.15 r YES				()	n/a - 0.00 5	n/a 999 n/a n/a			
BCDL	10.0	Code		2/TPI2007	Matrix-S					Weight: 50 lb	FT = 10%	_
LUMBER TOP CHORD 2x4 SPF	No.2		5) 6)		paced at 4-0-0 oc. been designed for a	10.0 psf	bottom					
BOT CHORD 2x4 SPF OTHERS 2x3 SPF			7)		I nonconcurrent with is been designed for	,						
BRACING			,	on the bottom	chord in all areas wh 2-00-00 wide will fit	nere a rec	ctangle .					
6-0-0 oc	purlins.	eathing directly a		chord and any	other members, with	n BCDL =	= 10.0psf.					
BOT CHORD Rigid ce bracing.		applied or 10-0-	0 oc 8)	bearing plate	anical connection (by capable of withstand	ing 15 lb	uplift at joint					
REACTIONS (lb/size)	1=170/17	/-0-4, 5=170/17-0 /-0-4, 8=252/17-0		1, 173 lb uplift AD CASE(S)	at joint 9 and 173 lb Standard	uplift at j	oint 7.					
	9=429/17	-0-4	-4,	.,								
		C 9), 7=-173 (LC	9),									
Max Grav	9=-173 (L 1=170 (L	-C 8) C 1), 5=170 (LC	1), 7=463									
		8=354 (LC 15), 9										
	'	npression/Maxim	um									
		-148/127, 3-4=-1	40/106,									
4-5=-114 BOT CHORD 1-9=-41/		/95, 7-8=-41/95,										
5-7=-41/ WEBS 3-8=-183		7/219, 4-7=-347	/219								TOP	
NOTES										E OF M	AISSO	
 Unbalanced roof live this design. 	loads have	been considere	d for						6	ST SCOTT	V.V.	
 Wind: ASCE 7-10; V (IRC2012)=91mph; 1 									Be	SEVI		
Cat. II; Exp C; Enclo zone; cantilever left	ed; MWFR	S (envelope) ext	erior						B	1		
and right exposed; L DOL=1.60	imber DOL	=1.60 plate grip							8	Cotto	Series	
3) Truss designed for w									8	PE-2001	018807	
only. For studs expo see Standard Indust	y Gable En	d Details as app	licable,						N N	1283	ENGL	
or consult qualified b 4) Gable requires contin										STONA	L	
,										Februar	ry 4,2022	

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



								1	RELEASE	E FOR CONSTRUCTION	1		
Job	Truss		Truss Type		Qty	Ply	Lot 141 CE	з		ED FOR PLAN REVIEW	٦ I		
B220013	V2		Valley		1	1	Job Refere	ence (optional)	1 5 5 10	LOPMENT SERVICES 150049388 SUMMIT, MISSOURI			
Wheeler Lumb	per, Waverly, KS - 66871,						11 2021 MiTek li	Industries, Inc. T	hu Feb 06 10:09:12		>		
				ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbdKWrCD0+7J42+d?ff IU/2U22									
				<u>6-6-2</u> 6-6-2			12-7- 6-0-1		13-0-4				
			1	0-0-2	,		0-0-1	3	d-5-3				
					4x4	ł =							
					3	<							
				/		\searrow							
						\sim	\sim						
	4-4-5 4-0-10	,	2x4	"				2x4 II					
	4 4		2 8 [4					
			8						5				
		<u> </u>	1										
		-0-0											
			3x4 🤛 8		7			6	3x4 🔊				
			2x4	II	2x4			2x4 II					
Scale = 1:36					13-0-/	4							
Loading	(psf)	Spacing	2-0-0	CSI	DEF	 FL	in (loc)	l/defl L/d	PLATES	GRIP	_		
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	тс	0.17 Vert	rt(LL)	n/a - n/a -	n/a 999 n/a 999	MT20	197/144			
BCLL	0.0*	Rep Stress Incr	YES	WB		. ,	0.00 5	n/a n/a	L .				
	10.0	Code	IRC2012/TPI2007	Matrix-S spaced at 4-0-0 oc.				<u> </u>	Weight: 36 lb	FT = 10%	_		
TOP CHORE BOT CHORE			This truss has	as been designed for ad nonconcurrent with									
OTHERS	2x3 SPF No.2		This truss h	nas been designed fo	or a live load	d of 20.0psf							
BRACING TOP CHORE	Structural wood she	eathing directly applie	ed or 3-06-00 tall b	m chord in all areas w by 2-00-00 wide will fi									
BOT CHORE	6-0-0 oc purlins. D Rigid ceiling directly	/ applied or 10-0-0 oc	c 8) Provide mech	ny other members. hanical connection (b									
REACTIONS	bracing.	0-4, 5=73/13-0-4,	bearing plate 1, 2 lb uplift a	e capable of withstand at joint 5, 139 lb uplift			-						
hene		8-0-4, 7=285/13-0-4,	uplift at joint (LOAD CASE(S)										
	Max Horiz 1=-106 (L Max Uplift 1=-22 (LC	_C 4)	120										
	(LC 9), 8=	=-139 (LC 8)											
		7=285 (LC 1), 8=348											
FORCES	15) (Ib) - Maximum Com	npression/Maximum											
TOP CHORE		44/97, 3-4=-140/74,											
BOT CHORE	4-5=-88/46 D 1-8=-26/73, 7-8=-26/	5/73, 6-7=-26/73,											
	5-6-26/73 3-7=-200/21, 2-8=-281/181, 4-6=-281/180												

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=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.
 Coble accuracy with the second state of the second state
- 4) Gable requires continuous bottom chord bearing.



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss									E FOR CONSTRUCTION	
	11400		Truss Type		Qty	Ply	Lot 141 CE	3		ED FOR PLAN REVIEW	7
B220013	V3		Valley		1	1	Job Refere	ence (optional	1 5 5 10	LOPMENT SERVICES 150049389 SUMMIT, MISSOURI	
Wheeler Lumber	, Waverly, KS - 66871,			Run: 8.43 S Oct 11 2 ID:8aNTy8QW5hKsIT			2021 MiTek I	ndustries, Inc. 7	hu Feb 06 10:09.12	10/2022	•
				<u>4-6-2</u> 4-6-2			8-7-1 4-0-1		9-0-4		
			I	4-0-2		I	4-0-1	5	0-5-3		
						4x5 =					
	3-0-5	2-8-10	8 ¹²			2			3		
		0-0-0-									
			3x4 🍫			4 2x4 II			3x4 🔪		
			L		g	-0-4					
Scale = 1:29		<u> </u>	I	r					1		_
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC 0.	22 Ver		in (loc) n/a -	l/defl L/d n/a 999		GRIP 197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.	14 Ver	t(TL)	n/a -	n/a 999			
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2012/TPI2007	WB 0. Matrix-S	05 Hoi	iz(TL) 0	.00 3	n/a n/a	Weight: 23 lb	FT = 10%	
BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc purlins. Rigid ceiling directly bracing.	2 4)	on the botton 3-06-00 tall b chord and an 8) Provide mecl bearing plate 1, 44 lb uplift LOAD CASE(S)	as been designed for n chord in all areas wh y 2-00-00 wide will fit l y other members. hanical connection (by capable of withstandi at joint 3 and 14 lb up Standard	ere a rec between others) o ng 36 lb	tangle the bottom of truss to uplift at joint					
FORCES	(LC 8) (lb) - Maximum Com										
	Tension 1-2=-140/67, 2-3=-14 1-4=-14/65, 3-4=-14/ 2-4=-231/59										
NOTES 1) Unbalance this design	d roof live loads have	been considered for									
 Wind: ASC (IRC2012): Cat. II; Exp zone; canti and right e DOL=1.60 	E 7-10; Vult=115mph =91mph; TCDL=6.0ps o C; Enclosed; MWFR; ilever left and right exp xposed; Lumber DOL=	sf; BCDL=6.0psf; h=25 S (envelope) exterior posed ; end vertical le =1.60 plate grip	ft					l	STATE OF	N SY	

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

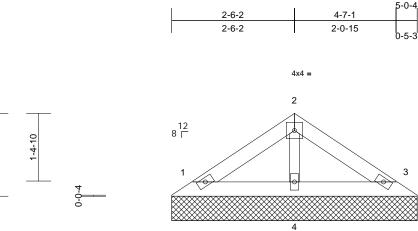
4) Gable requires continuous bottom chord bearing.

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

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. SCOTT M. SEVIER PE-2001018807 February 4,2022



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 141 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 150049390
B220013	V4	Valley	1	1	Job Reference (optional	
Wheeler Lumber, Waverly, KS -	66871,				l 2021 MiTek Industries, Inc. T PsB70Hq3NSgPqnL8w3uITXb0	



2x4 🍫

2x4 🛛

5-0-4

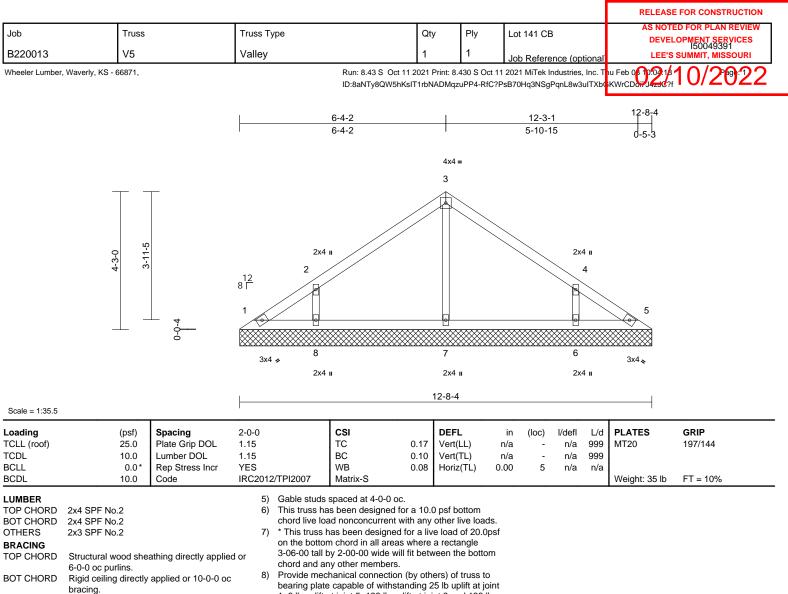
2x4 💊

Scale = 1:23.6

1-8-5

Scale = 1:23.6											
Loading (psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	тс	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 12 lb	FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x3 SPF No.2 BRACING TOP CHORD Structural wood shea 5-1-0 oc purlins. BOT CHORD Rigid ceiling directly bracing.		bearing plat 1 and 28 lb LOAD CASE(S)	chanical connection (e capable of withstar uplift at joint 3.) Standard								
	-4, 3=104/5-0-4,										
4=162/5-0 Max Horiz 1=36 (LC Max Uplift 1=-23 (LC FORCES (lb) - Maximum Com Tension TOP CHORD 1-2=-65/33, 2-3=-62/ BOT CHORD 1-4=-7/30, 3-4=-7/30 WEBS 2-4=-111/28 NOTES 1) Unbalanced roof live loads have this design. 2) Wind: ASCE 7-10; Vult=115mph (IRC2012)=91mph; TCDL=6.0ps Cat. II; Exp C; Enclosed; MWFR; zone; cantilever left and right exp and right exposed; Lumber DOL= DOL=1.60 3) Truss designed for wind loads in only. For studs exposed to wind see Standard Industry Gable End or consult qualified building desig 4) Gable requires continuous bottor 5) Gable studs spaced at 4-0-0 oc. 6) This truss has been designed for chord live load nonconcurrent wi 7) * This truss has been designed for on the bottom chord in all areas 3-06-00 tall by 2-00-00 wide will chord and any other members.	5) 8), 3=-28 (LC 9) pression/Maximum (25 been considered for (3-second gust) V f; BCDL=6.0psf; h=2 S (envelope) exterior posed ; end vertical le =1.60 plate grip the plane of the trus: (normal to the face), d Details as applicabl gner as per ANSI/TPI n chord bearing. * a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle	s e, 1. s. ssf								PE-2001	ER D18807



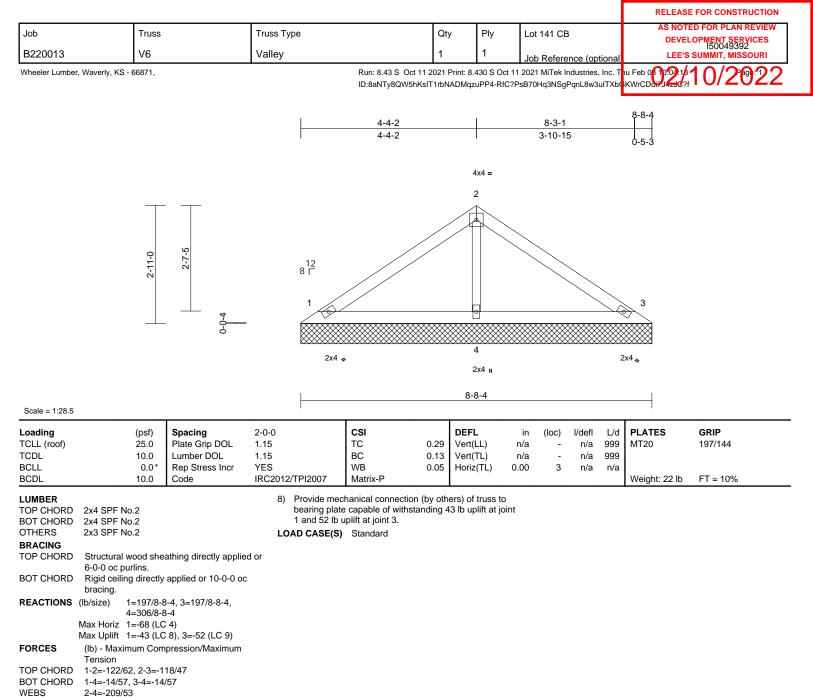


- REACTIONS (lb/size) 1=61/12-8-4, 5=61/12-8-4, 6=326/12-8-4, 7=285/12-8-4, 8=326/12-8-4 Max Horiz 1=-103 (LC 4)
 - 1=-25 (LC 4), 5=-6 (LC 5), 6=-138 Max Uplift (LC 9), 8=-138 (LC 8) Max Grav 1=82 (LC 16), 5=68 (LC 15), 6=344 (LC 16), 7=285 (LC 1), 8=345 (LC 15)
- FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-108/80, 2-3=-143/95, 3-4=-140/72, 4-5=-85/46 1-8=-25/72, 7-8=-25/72, 6-7=-25/72, BOT CHORD 5-6=-25/72
- WEBS 3-7=-200/23, 2-8=-280/180, 4-6=-280/180 NOTES
- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V 2) (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 0 HESSIONAL February 4,2022

> **MiTek** 16023 Swingley Ridge Rd Chesterfield, MO 63017

- bearing plate capable of withstanding 25 lb uplift at joint 1, 6 lb uplift at joint 5, 138 lb uplift at joint 8 and 138 lb uplift at joint 6.
- LOAD CASE(S) Standard



- NOTES
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 7) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

PE-2001018807 PE-2001018807 February 4,2022

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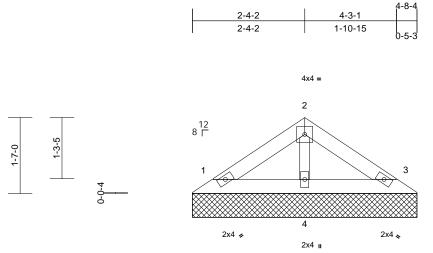


OF MISS

SCOTT M.

SEVIER

						RELEASE FOR CONSTRUCTION	
Job	Truss	Truss Type	Qty	Plv	Lot 141 CB	AS NOTED FOR PLAN REVIEW	
		21	~.,	,		DEVELOPMENT SERVICES I50049393	
B220013	V7	Valley	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI	
Wheeler Lumber, Wav	Wheeler Lumber, Waverly, KS - 66871, Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. T						



4-8-4

Scale =	1:24
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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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 11 lb	FT = 10%
LUMBER			8) Provide me	chanical connection (by	v othe	ers) of truss to	C					
	2x4 SPF No.2			e capable of withstandi								
BOT CHORD	2x4 SPF No.2		1 and 25 lb	uplift at joint 3.	-							
OTHERS	2x3 SPF No.2		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	eathing directly applie	ed or									
	4-9-0 oc purlins.											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or										
	bracing.											
REACTIONS	(ID/SIZE) 1=96/4-8- 4=149/4-8	-4, 3=96/4-8-4, 8-4										
	Max Horiz 1=-33 (LC											
	Max Uplift 1=-21 (LC											
FORCES	(lb) - Maximum Corr	npression/Maximum										
	Tension											
	1-2=-59/30, 2-3=-57											
	1-4=-7/28, 3-4=-7/28	8										
WEBS	2-4=-102/26											
NOTES												
,	d roof live loads have	been considered for	•									
this design	ı. ≿E 7-10; Vult=115mph	(2 accord quat) \/										
	=91mph; TCDL=6.0ps		25ft·									
	C; Enclosed; MWFR										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~
	ilever left and right ex										A	and
	xposed; Lumber DOL	=1.60 plate grip									F. OF M	AISS A
DOL=1.60										4	THE OF M	1.50
	gned for wind loads in									A	SCOTT	ГM. CA
	studs exposed to wind ard Industry Gable En									4	7 SEVI	ER \ Y
	qualified building desi									(Wat		• \★Ø
	uires continuous botto									X	1 mm	
	Is spaced at 2-0-0 oc.								2	4 14	COUNTRANCE OF THE STATE	20MM
	has been designed fo									27	DE 2001	D10007 A
	load nonconcurrent w									N	PE-2001	1000/29
	s has been designed f		psf							Y	1 tec	IS B
	om chord in all areas Il by 2-00-00 wide will		m								PE-20010	LEN
	any other members.	in between the boll	111								and	The second
											Februar	ry 1 2022



