



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

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN		
B220018	A1	Common Supported Gable	2	1	Job Reference (optional)	149888466	

11-5-3

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:43 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



33-2-8

Scale = 1:69.3 Plate Offsets (X, Y): [9:0-3-8,0-3-0], [28:0-2-8,0-1-4]

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/TF	PI2014	CSI TC BC WB Matrix-R	0.29 0.12 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.01	(loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 208	GRIP 197/14 Ib FT = 1	14
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	R ORD 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 S 2x4 SPF No.2 G G DRD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. ORD Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 19-20, 15-24, 14-25, 13-26, 12-27, 16-23, 17-22, 18-21 TOP CHOR				N SES	/lax Grav (lb) - Maxir	20=52 (LC 16), 2 22=185 (LC 22), 24=168 (LC 15), 26=179 (LC 21), 29=180 (LC 21), 31=180 (LC 1), 33=179 (LC 21), 35=178 (LC 21), 37=151 (LC 21), num Compression	1), 2 22), 21), 1), 1), 21), 3 1), 1), 1), 16)	 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 All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. 						
WEBS	1 Row at	midpt	19-20, 15-24, 14-25, 13-26, 12-27, 16-23, 17-22, 18-21	TOP	CHORD	Tension 2-38=-184/ 3-4=-262/3	/0, 1-2=0/27, 2-3 37, 4-5=-238/35,	=-318/41, 5-6=-212/32	, , , , , , , , , , , , , , , , , , , ,	 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. 					aring. securely onal web).
REACTIONS	(lb/size) Max Horiz Max Uplift	20=41/33- 22=185/3; 24=168/3; 26=179/3; 29=180/3; 31=180/3; 33=179/3; 35=178/3; 37=151/3; 38=353 (L 20=-31 (LL 22=-57 (LL 24=-9 (LC 26=-50 (LL) 29=-48 (LL 33=-48 (LL) 33=-48 (LL) 35=-53 (LL) 37=-148 (L)	2-8, 21=158/33-2-8, 3-2-8, 23=186/33-2-8 3-2-8, 25=187/33-2-8 3-2-8, 27=180/33-2-8 3-2-8, 30=178/33-2-8 3-2-8, 30=178/33-2-8 3-2-8, 30=186/33-2-8 3-2-8, 36=186/33-2-8 3-2-8, 36=186/33-2-8 C 4), 21=-29 (LC 4), C 9), 23=-47 (LC 9), 20), 25=-45 (LC 8), C 8), 30=-47 (LC 8), C 8), 32=-49 (LC 8), C 8), 32=-49 (LC 8), C 8), 32=-49 (LC 8), C 8), 32=-47 (LC 8), C 8), 32=-47 (LC 8), C 8), 32=-47 (LC 8), C 8), 32=-47 (LC 8), C 8), 36=-27 (LC 8), LC 8)	BOT (CHORD	10-11=-13: 12-13=-10: 12-13=-10: 14-15=-85; 16-17=-96; 18-19=-15: 37-38=-11: 35-36=-11: 33-34=-11: 33-34=-11: 29-30=-11: 20-21=-11: 20-21=-11: 15-24=-12: 11-29=-14: 9-31=-140; 6-34=-140; 3-37=-116; 2-22=-140; 3-37=-116; 2-22=-140; 3-37=-116; 2-22=-140; 3-37=-116; 2-22=-140; 3-37=-116; 2-22=-140; 3-37=-	<pre>////28, 1-02=-1/1/28, 5/68, 11-12=-12; 8/121, 13-14=-94, /173, 15-16=-84, /173, 15-16=-84, /1752, 17-18=-111; 6/88, 36-37=-111; 6/88, 30-31=-111; 6/88, 30-31=-111; 6/87, 27-29=-111; 6/87, 27-29=-111; 6/87, 21-22=-111; 6/87, 21-22=-111; 6/87, 21-22=-111; 6/87, 21-22=-141; 9/74, 12-27=-141; 0/72, 10-30=-133; /71, 8-32=-142/7; /11, 5-35=-139/7; /126, 16-23=-144; /72, 49, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40</pre>	2/94, 4/148, 174, 2/125, 2/103 5/88, 5/88, 5/88, 5/88, 5/87, 5	2, 8 9/72, 5/61,	() (30 (30)	s truss h rd live lc his truss he botto 5-00 tall rd and a	as bee ad nor has bee m cho by 2-0 ny oth	n designed fo iconcurrent wen designed i d'in all areas 0-00 wide will er members.	r a 10.0 psf ith any other or a live loa where a re- fit between MISS OTT M. VIER MIBER 0101880'	f bottom r live loads. ad of 20.0psf ctangle 1 the bottom

NOTES

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

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



ESSIONAL E

January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	A1	Common Supported Gable	2	1	Job Reference (optional)	149888466

- 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

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:43 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	A2	Roof Special	1	1	Job Reference (optional)	149888467

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:45

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



Plate Offsets (X, Y): [8:0-3-0,0-1-12], [9:Edge,0-1-8], [16:0-3-8,Edge], [18:0-3-0,0-2-4]

		-											
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		тс	0.90	Vert(LL)	-0.26	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.79	Vert(CT)	-0.50	16-17	>781	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.86	Horz(CT)	0.16	9	n/a	n/a		
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		Wind(LL)	0.14	14-15	>999	240	Weight: 161 lb	FT = 10%
			2)			h (2 aaa							
			2)	Vind: ASCE	7-16; Vuit=115mp	n (3-sec 201 –6 (ona gusi) Def: h=25ft: i	Cat					
TOP CHORD	2X4 SPF N0.2 EX	Cept 1-4:2x4 SPF 210	JUF	II: Exp C: En	closed: MWFRS (e	onvelone	exterior zo	ne.					
	2v4 SPE No 2 *Ev	Cont* 16-5:2v3 SPF N	<u>.</u> 2	cantilever lef	t and right exposed	d : end v	ertical left	10,					
WEBS	2x3 SPE No 2 *Ex	cent* 13-6 9-8 2v4 SP	5.2 F	exposed: Lui	mber DOL=1.60 pla	ate arip	DOL=1.60						
11LDO	No.2. 18-2:2x6 SP	F No.2	3)	This truss ha	s been designed fo	or a 10.0) psf bottom						
BRACING	,		,	chord live loa	ad nonconcurrent w	vith any	other live loa	ds.					
TOP CHORD	Structural wood sh	eathing directly applie	ed 4)	* This truss h	as been designed	for a liv	e load of 20.0	Opsf					
	except end vertica	ls.	, a,	on the bottor	n chord in all areas	s where	a rectangle						
BOT CHORD	Rigid ceiling direct	ly applied or 8-1-8 oc		3-06-00 tall b	y 2-00-00 wide wil	I fit betw	een the bott	om					
	bracing.	, ,,	C)	chord and an	ly other members,	with BC	DL = 10.0psi	-					
WEBS	1 Row at midpt	15-17, 3-15, 5-14, 6	-13, ⁵⁾	Refer to gird	er(s) for truss to tru	ISS CONF							
		8-9	6)	bearing plate	capable of withsts	(by other	31 lb unlift at	.0					
REACTIONS	(lb/size) 9=1476	Mechanical,		ioint 18 and 2	218 lb unlift at joint	anung z a	ST ID uplint at						
	18=155	6/0-3-8	7)	This truss is	designed in accord	lance wi	th the 2018						
	Max Horiz 18=374	(LC 8)	.,	International	Residential Code	sections	R502.11.1 a	ind					
	Max Uplift 9=-218	(LC 8), 18=-231 (LC 8)	R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.						
	Max Grav 9=1720	(LC 2), 18=1614 (LC	²⁾ LC	DAD CASE(S)	Standard								
FORCES	(lb) - Maximum Co	mpression/Maximum		(-)									
	Tension												
TOP CHORD	1-2=0/30, 2-3=-29	75/386, 3-5=-2605/402	2,										
	5-6=-1993/335, 6-	7=-1092/193,											
	0-11-1578/252 8	10=-1504/202, -111476/255										COURT	TOP
BOT CHORD	17-18=-484/797 1	6-17=0/201 15-16=0/	156									F OF M	AIS C
	5-15=-85/678. 14-	15=-527/2317.	,								1	750	W.OS
	13-14=-379/1799,	12-13=-9/33, 11-12=-	9/33,								R	N SCOTT	M Star
	9-10=0/0										R		
WEBS	10-12=0/120, 3-17	=-302/211,								•	1	SEVI	
	15-17=-664/2498,	3-15=-392/130,								7	1 7		0
	5-14=-964/273, 6-	14=-145/981,										La the	· Solut
	b-13=-1265/334, 7	-13=-5/448,									43	NUMI	ER / KA
	2-17=-171/1883, 8	-13=-200/1266									N	>> PE-20010	018807 JEA
NUTES	al an af Bara Ia a d	- have see the 14									N	The second	18A
1) Unbalance	ea roof live loads hav	re been considered to	ſ								X	Ser	NO'A
uns design												ONA	LELA
												ann	and the second s



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	A3	Roof Special	2	1	Job Reference (optional)	149888468

1)





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	A4	Roof Special	2	1	Job Reference (ontional)	149888469

Scale = 1:80



Fiale Olisels	(X, T). [3.0-0-4,Euge], [[3.0-1-14,0-1-11], [0.0-4-0,E0	igej, [9.0-2-5,Et	igej, [10.Euge,0-	1-0], [12.0	-2-0,0-1-0]						
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.86 0.73 0.65	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.30 -0.53 0.27 0.17	(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 TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x6 SPF No.2 *Excep 1-6:2x8 SP DSS 2x4 SPF No.2 *Excep 1.8E, 5-13:2x3 SPF N 2x3 SPF No.2 *Excep 11-7,11-8,10-9,11-9:2 Structural wood shea 2-2-0 oc purlins, exce Rigid ceiling directly a bracing. 1 Row at midpt	ot* 8-9:2x4 SPF No ot* 3-14:2x4 SPF 2 lo.2 ot* 16-3:2x6 SPF N 2x4 SPF No.2 thing directly applie ept end verticals. applied or 10-0-0 o 4-14, 7-11, 9-10	3 .2, 4 100F o.2, 5 ed or c 7	 This truss ha chord live loa * This truss h on the bottor 3-06-00 tall th chord and ar Refer to gird Provide mec bearing plate 2 and 42 lb u This truss is International R802.10.2 a 	s been designed ad nonconcurrent has been designe n chord in all area by 2-00-00 wide w by other members er(s) for truss to t hanical connectio capable of withs plift at joint 10. designed in acco Residential Code ad referenced sa	for a 10. with any d for a liv as where will fit betw s, with BC russ conr n (by oth tanding 3 rdance w a sections ndard AN	D psf bottom other live loa e load of 20.0 a rectangle veen the botto DL = 10.0psf nections. ers) of truss t i8 lb uplift at ji ith the 2018 i R502.11.1 a ISI/TPI 1.	ids. Dpsf om f. co oint					
REACTIONS	(Ib/size) 2=1554/0-3 Mechanica Max Horiz 2=265 (LC Max Uplift 2=-38 (LC Max Grav 2=1606 (LC	3-8, 10=1480/ ll 8) 8), 10=-42 (LC 8) C 2), 10=1608 (LC	2)	UAD CASE(3)	Stanuaru								
FORCES	(lb) - Maximum Comp	pression/Maximum	,										
TOP CHORD	1-2=0/12, 2-3=-758/0, 4-5=-2796/94, 5-7=-2 8-9=-975/78, 9-10=-1	, 3-4=-4038/147, 735/165, 7-8=-978 463/77	/67,										<i>T</i>
BOT CHORD	2-16=0/0, 3-15=-355/ 13-14=0/96, 5-14=-33 11-12=-116/1597, 10-	3895, 14-15=-353/ 39/112, 12-13=-15/ -11=-3/19	3891, 99,								4	TE OF M	AISSOL
WEBS	3-16=0/65, 4-15=-3/1 12-14=-103/1522, 7-1 7-12=-82/162, 7-11=- 9-11=-47/1231	73, 4-14=-1479/15 14=-147/1458, 1201/131, 8-11=0/	6, 375,								Ho.	SCOTI SEVI	ER
NOTES											X	Antt)	SIMU
1) Unbalanc this desig	ed roof live loads have b n.	been considered fo	r							-	N'	PE-2001	3ER 018807
 Wind: AS Vasd=91r II; Exp C; and right 	CE 7-16; Vult=115mph (nph; TCDL=6.0psf; BCD Enclosed; MWFRS (env exposed ; end vertical le	(3-second gust) DL=6.0psf; h=25ft; (velope); cantilever eft exposed; Lumbe	Cat. left er								Ø	FESSIONA	L ENGINE

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



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	A5	Common	1	1	Job Reference (optional)	149888470

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:46 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [8:0-3-0,0-1-12], [9:Edge,0-1-8], [14:0-2-8,0-2-0], [15:0-3-0,0-2-4]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/	TPI2014	CSI TC BC WB Matrix-S	0.91 0.90 0.74	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.19 -0.35 0.08 0.09	(loc) 13-14 13-14 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 154 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 10-6,10-7,9-8,10-8:2 SPF No.2 Structural wood shea except end verticals. Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 9=1476/M 15=1556/(Max Horiz 15=255 (L Max Uplift 9=-42 (LC Max Grav 9=1605 (L	pt* x4 SPF No.2, 15-2:2 athing directly applie applied or 10-0-0 oc 4-11, 6-10, 8-9 Mechanical, 0-3-8 C 8) 8), 15=-38 (LC 8) C 2), 15=-30 (LC 2	3) 4) 5) d, 6) 7) LOA	This truss ha: chord live loa * This truss h on the bottor 3-06-00 tall b chord and an Refer to girde Provide mech bearing plate 15 and 42 lb This truss is of International R802.10.2 ar AD CASE(S)	s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members, i rr(s) for truss to tru nanical connection capable of withsta uplift at joint 9. designed in accord Residential Code s d referenced stand Standard	or a 10.0 vith any for a liv where lift betw with BC ss conr (by oth inding 3 ance w sections dard AN) psf bottom other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf ections. ers) of truss t 8 lb uplift at ju th the 2018 R502.11.1 a SI/TPI 1.	ds. Jpsf om o pint nd					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/30, 2-3=-2911 4-6=-1789/67, 6-7=-5 2-15=-1524/56, 8-9=	/57, 3-4=-2551/59, 985/69, 7-8=-982/80 -1455/79	,										
BOT CHORD	14-15=-233/498, 13- 11-13=-195/2288, 10 9-10=-3/21	14=-271/2640,)-11=-116/1577,										E OF M	AISS
WEBS	3-14=-131/81, 3-13= 4-11=-880/98, 6-11= 7-10=0/381, 2-14=-3	-380/80, 4-13=0/382 0/792, 6-10=-1178/1 8/2153, 8-10=-49/12	2, 32, 19								A.	SCOTT	M.
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m II; Exp C; I and right e DOL=1.60	ed roof live loads have CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en xposed ; end vertical li plate grip DOL=1.60	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope); cantilever le eft exposed; Lumber	at. eft									PE-20010	DISSOT

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B1	Roof Special	1	1	Job Reference (optional)	149888471

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:47

Wheeler Lumber, Waverly, KS - 66871,



	4-6-12 I	9-11-8 10-3	^{-o} 18-11-7	25-9-10	33-2-8	1
Scale = 1:76.2	4-6-12	5-4-12 0-4-	0 8-7-15	6-10-3	7-4-14	1

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

Loading	3		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (re	oof)		25.0	Plate Grip DOL	1.15		TC	0.94	Vert(LL)	-0.18	12-13	>999	360	MT20	197/144
TCDL			10.0	Lumber DOL	1.15		BC	0.61	Vert(CT)	-0.36	12-13	>779	240		
BCLL			0.0*	Rep Stress Incr	YES		WB	0.47	Horz(CT)	-0.02	9	n/a	n/a		
BCDL			10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	-0.04	9-10	>999	240	Weight: 136 lb	FT = 10%
LUMBE TOP CH BOT CH WEBS BRACIN TOP CH BOT CH	R IORD IORD IORD	2x4 SPF 2x4 SPF 2x3 SPF Structura except er Rigid ceil	No.2 No.2 *Exce No.2 *Exce I wood shea I verticals. ing directly	pt* 14-4:2x3 SPF No pt* 16-2:2x6 SPF No athing directly applie applied or 10-0-0 or	3) 0.2 4) 0.2 ed, 5) c 6)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird Bearing at jo	s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members, er(s) for truss to tru int(s) 13 considers PL 1 angle to grain	or a 10.0 vith any for a liv where I fit betw with BC uss conr parallel) psf bottom other live loa e load of 20. a rectangle veen the bott DL = 10.0ps lections. to grain valu	ads. Opsf tom .f. ue					
		bracing.				designer sho	uld verify capacity	of beari	ng surface						
WEBS REACT	IONS	1 Row at (Ib/size) Max Horiz Max Uplift Max Grav	midpt 9=1036/ M 13=1267/9 15=355/9- 16=336 (L 9=-109 (L 14=-52 (L 9=1134 (L 14=120 (L 14=120 (L 16=294 (L	6-10, 7-10, 8-9 Aechanical, 9-11-8, 14=84/9-11- .C 5) C 8), 13=-274 (LC 8 C 5), 16=-52 (LC 4) .C 2), 13=1294 (LC 1) .C 2), 15=422 (LC 1) .C 2), 15=422 (LC 1) .C 1)	7) 8, 8 8 (), 8) 2), L 6), L	Provide mec bearing plate 16, 274 lb up lb uplift at joi This truss is International R802.10.2 ar DAD CASE(S)	anical connection capable of withsta lift at joint 13, 52 lb nt 9. designed in accord Residential Code s nd referenced stand Standard	(by oth inding 5 o uplift a lance w sections dard AN	tip of truss 2 lb uplift at t joint 14 and th the 2018 R502.11.1 a SI/TPI 1.	to joint d 109 and					
FORCE	S	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CH	IORD	1-2=0/30, 4-6=-109 2-16=-26	2-3=-209/2 0/154, 6-7= 4/76, 8-9=-9	23, 3-4=-250/77, 714/169, 7-8=-688/ 986/154	/186,									Contraction of the	ADD.
BOT CH	IORD	15-16=-2 4-13=-11 10-12=-1	27/99, 14-1 82/325, 12- 20/912, 9-1	5=-227/99, 13-14=0 13=-63/115, 0=-98/75)/0,								B	TATE OF M	MISSOLA
WEBS		3-14=-10 6-12=-11 7-10=-59	5/198, 4-12 9/163, 6-10 /194, 8-10=	ደ=-61/871,)=-517/183, ⊱69/787, 3-15=-240/	/56								10	SEVI	ER L
NOTES													JR.	host -	Kerner >
 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed : end vertical left and 					r Cat. ne;								A Note	PE-20010	BER D18807
right	t expo	sed; Lumbe	r DOL=1.60	, end venical left and 0 plate grip DOL=1.6	60									1000	SSS

January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B2	Roof Special	3	1	Job Reference (optional)	149888472

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:47 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [8:0-3-0,0-1-12], [12:0-2-8,0-1-8], [16:0-3-4,0-2-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.91 0.53 0.61	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.18 -0.35 -0.01 0.18	(loc) 12-13 12-13 9 12-13	l/defl >999 >806 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 147 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	UMBER 4) This truss has been designed for a 10.0 psf bottom OP CHORD 2x4 SPF No.2 ************************************												
FORCES	(lb) - Maximum Com	pression/Maximum	[/] LC	DAD CASE(S)	Standard								
TOP CHORD	1-2=0/30, 2-3=-114/ 4-6=-690/215, 6-7=- 2-16=-10/64, 8-9=-7	554, 3-4=-218/1222, 562/173, 7-8=-555/1 92/193	70,										
BOT CHORD	15-16=-11/42, 14-15 13-14=-72/338, 4-13 12-13=-1130/130, 10 9-10=-5/25	5=-453/124, 3=-1794/279, 0-12=-215/541,										STATE I	all
WEBS	3-15=-59/264, 3-14= 4-12=-268/1788, 6-1 6-10=-180/153, 7-10 2-15=-487/114, 8-10	676/147, 2=-460/88,)=-140/126,)=-148/580									E.	SATE OF M	M
NOTES											10 _	SEVI	
 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed ; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) All plates are MT20 plates unless otherwise indicated. 								LENGT					

January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B3	Roof Special	4	1	Job Reference (optional)	149888473





Scale = 1:75.6 Plate Offsets (X, Y): [9:Edge,0-2-8], [12:0-2-8,0-1-8], [16:0-3-4,0-2-8]

							-						· · · · · · · · · · · · · · · · · · ·
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.99	Vert(LL)	-0.16	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.50	Vert(CT)	-0.28	12-13	>999	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES		WB	0.91	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.14	12-13	>999	240	Weight: 146 lb	FT = 10%
												0	
LUMBER			4)	This truss ha	s been designed fo	or a 10.0) psf bottom						
TOP CHORD	2x4 SPF No.2			chord live loa	id nonconcurrent v	vith any	other live loa	ids.					
BOT CHORD	2x4 SPF No.2 *Exce	ept* 14-4:2x6 SP DSS	S, 5)	* This truss h	as been designed	for a liv	e load of 20.0	Opsf					
	13-11:2x4 SPF 2100)F 1.8E		on the bottor	n chord in all areas	s where	a rectangle						
WEBS	2x3 SPF No.2 *Exce	ept* 16-2:2x6 SPF No	.2	3-06-00 tall b	y 2-00-00 wide wil	I fit betw	een the bott	om					
BRACING				chord and ar	y other members,	with BC	DL = 10.0pst	t.					
TOP CHORD	Structural wood she	athing directly applie	d, ⁶⁾	Provide mec	nanical connection	(by oth	ers) of truss t	0					
	except end verticals			bearing plate	capable of withsta	anding 5	91 Ib uplift at	I					
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc		joint 13 and 2	295 ID UPIIIT at Joint	9.							
	bracing.		()	I NIS TRUSS IS	Designed in accord	ance w	Ith the 2018	ام من					
WEBS	1 Row at midpt	7-10, 8-9, 6-10		Peop 10.2 or	Residential Code			ina					
REACTIONS	(lb/size) 9=861/0-3	3-8, 13=2202/0-3-8		R002.10.2 ai		uaru An	131/1711.						
	Max Horiz 13=371 (L	_C 8)	LO	AD CASE(S)	Standard								
	Max Uplift 9=-295 (L	C 5), 13=-591 (LC 4)											
	Max Grav 9=962 (LC	C 2), 13=2271 (LC 2)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=0/30, 2-3=-164/	554, 3-4=-322/1222,											
	4-6=-706/266, 6-7=-	587/235, 7-8=-565/2	24,										
	8-9=-809/270, 2-16=	-9/64											
BOT CHORD) 15-16=-17/41, 14-15	5=-453/179,											
	13-14=-99/338, 4-13	8=-1805/452,											
	12-13=-1127/189, 10	0-12=-260/556,										000	ALL .
	9-10=-5/17											OFA	ALC D
WEBS	7-10=-145/134, 3-15	5=-69/264,										FELL	115S
	6-12=-468/153, 6-10)=-169/166,									6	A. T.	N.S.
	2-15=-487/174, 8-10)=-190/606,									A	SCOTI	M. EN
	4-12=-401/1799, 3-1	4=-677/220									a	7 SEVI	ER \V
NOTES											KA	-	
1) Unbaland	ced roof live loads have	been considered for										1	
this desig	jn.										XX		German7
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									5	NUME	BER
Vasd=91	mph; TCDL=6.0psf; BC	DL=6.0pst; h=25ft; C	at.								N/	ON PE-20010	018807
II; Exp C;	Enciosed; IVIVERS (er	ivelope) exterior zon	e; cob								(V	12	188
CanuleVe	inen exposed ; end ven	IICal lelt exposed; pol	CH									0.500	NO'B
	ngin exposed, Lumber D	oc=1.00 plate grip										ONA	LEIA
	0											Un	~~~

3) All plates are MT20 plates unless otherwise indicated.



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B4	Roof Special	2	1	Job Reference (optional)	149888474





Page: 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	0.78	Vert(LL)	-0.55	18-19	>725	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.99	18-19	>402	240	MT18HS	197/144	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.41	9	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	18-19	>999	240	Weight: 159 lb	FT = 10%	
UIMER 2) Wind: ASCE 7-16: Vult=115mph (3-second gust)													

LOWIDEI	
TOP CHORD	2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* 2-19:2x8 SP DSS, 19-16:2x4 SPF 2100F 1.8E
WEBS	2x3 SPE No 2 *Except* 19-3:2x8 SP DSS
	9-8,12-10,6-15,18-3:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	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,
	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

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members, with BCDL = 10.0psf. 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building
- designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 253 lb uplift at joint 2 and 196 lb uplift at joint 9.
- 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

3)





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B5	Roof Special	2	1	Job Reference (optional)	149888475

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:25:49 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Tension TOP CHORD 1-2=0/9, 2-3=-7522/1515, 3-4=-3223/481, 4-6=-2073/317, 6-7=-1103/208, 7-8=-1099/225, 8-9=-1433/258 BOT CHORD 2-16=-1766/6967, 15-16=-1566/5984, 14-15=-667/2927, 12-14=-379/1831, 10-11=0/146, 9-10=0/243 WEBS 11-12=-510/0, 3-16=-438/2307, 3-15=-3071/903, 4-15=0/582,

(lb) - Maximum Compression/Maximum

- joint 2 and 211 lb uplift at joint 9. Max Grav 2=1617 (LC 2), 9=1573 (LC 2) 8)
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER TI PE-2001018807 C SSIONAL January 27,2022

NOTES

Scale = 1:80.8

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

WEBS

FORCES

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

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

4-14=-1274/335, 6-14=-76/943,

9-12=-233/0, 8-12=-212/1242

6-12=-1316/326, 10-12=0/686, 7-12=-18/450,



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	B6	Roof Special	1	1	Job Reference (optional)	149888476

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:49 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [2:0-3-15,0-1-6], [18:0-2-8,0-2-8]

Scale = 1:84.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.78 0.91 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.46 -0.91 0.40 0.42	(loc) 18-19 18-19 11 18-19	l/defl >869 >438 n/a >938	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 177 lb	GRIP 197/144 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD 1 Row at midpt WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SPF No.2 *Exce 1.8E 2x4 SPF No.2 *Exce 19-17:2x4 SPF 2100 No.2 2x3 SPF No.2 *Exce 18-3,11-10:2x4 SPF Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. Except: 7-14 1 Row at midpt (lb/size) 2=1567/0 Max Horiz 2=380 (L0 Max Uplift 2=-234 (L (lb) - Maximum Com Tension 1-2=0/9, 2-3=-7214/ 4-6=-1969/320, 6-7= 7-8=-1326/337, 8-9= 9-10=-1115/214, 10- 2-19=-1770/6670, 11 16-18=-671/2794, 13- 7-14=-249/161, 13-1 12-13=0/113, 9-13=:	2pt* 1-5:2x4 SPF 2100 2pt* 2-19:2x8 SP DSS 3pf 1.8E, 15-7:2x3 SP 2pt* 19-3:2x6 SPF No No.2 athing directly applied cept end verticals. applied or 6-2-13 oc 3-18, 4-16, 6-14, 8-1 10-11 -3-8, 11=1493/0-3-8 C 8), 11=-214 (LC 8) 3pression/Maximum 1520, 3-4=-3094/483 1396/273, 1396/273, 1396/273, 1396/2749, -11=-1440/249 8-19=-1568/5762, 5-16=-1/35, 14-15=0/ 4=-191/1077, -352/185, 11-12=0/16	2) DF 5, F 3) .2, 4) 5) d or 6) 3, 7) 8) , LC	Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left exposed; Lur All plates are This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Bearing at joi using ANSI/T designer sho Provide mecl bearing plate joint 2 and 21 This truss is d International R802.10.2 ar	7-16; Vult=115mpf ; TCDL=6.0psf; BC closed; MWFRS (e and right exposed nber DOL=1.60 pla MT20 plates unles s been designed fo d nonconcurrent w as been designed fo d nonconcurrent w d referenced stance Standard	n (3-sec CDL=6.0 nvelope ; end v ite grip ss other for a 10.0 ith any for a liv where fit betw arallel t formula of beari (by oth nding 2 1. ance w sections dard AN	ond gust))psf; h=25ft; () exterior zor ertical left DOL=1.60 wise indicate) psf bottom other live loa e load of 20.0 a rectangle veen the botto o grain value a. Building ng surface. ers) of truss t 34 lb uplift at th the 2018 R502.11.1 a SI/TPI 1.	Cat. ne; id. ids. Dpsf om				STATE OF M	M. ER	
WEBS	3-19=-443/2120, 3-1 4-18=0/526, 4-16=-1 14-16=-399/1771, 6- 8-14=-368/1317, 8-1 11-13=-11/5, 10-13=	8=-2982/901, 252/338, 6-16=0/320 -14=-710/202, 3=-560/123, 218/1293),							ہ ب	S	PE-20010	18807	7

NOTES

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

E

January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C1	GABLE	1	1	Job Reference (optional)	149888477

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:50 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

gPqnL8w3uITXbGKWrCDoi7J4zJC?f



20-0-0

Scale = 1:47.7

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

Loading TCLL (roof) TCDL BCLL BCDL	(r 2 1 1	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	8/TPI2014	CSI TC BC WB Matrix-R	0.07 0.05 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 107 II	GRIP 197/144 p 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 2x4 SPF No.2 Structural woo 6-0-0 oc purlir Rigid ceiling d bracing. (lb/size) 20= 22= 24= 26= 28= 30= 32=	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	athing directly applied ept end verticals. applied or 6-0-0 oc -0-0, 21=84/20-0-0, -0-0, 23=119/20-0-0, -0-0, 27=123/20-0-0, -0-0, 29=119/20-00, -0-0, 31=120/20-0-0, -0-0, 33=127/20-0-0,	or BC	DP CHORD 2 3 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2	2-35=-149/64, 1-2=(2) 3-4=-95/94, 4-5=-89 5-7=-67/114, 7-8=-5 -10=-36/131, 10-11 11-12=-30/148, 12-13 3-14=-32/95, 14-15 16-17=-56/60, 17-18 8-20=-133/34 43-35=-81/97, 33-34 31-32=-81/97, 23-32 22-23=-81/97, 27-28 22-23=-81/97, 27-28 22-23=-81/97, 27-28 22-23=-81/97, 27-28 22-23=-81/97, 27-28 3-34=-100/89, 4-33 -3-31=-96/57, 7-30= -9-28=-110/5, 11-27= 3-25=-96/57, 14-24 6-22=-99/52, 17-29	0/36, 2- /89, 5- 7/135, =-32/1 3=-24/7 =-98/7 =-98/7 =-81/9 =-81/9 =-81/9 =-81/9 =-81/9 =-81/9 =-81/9 =-81/9 =-99/51 96/57, =-101/0 =-96/5	3=-134/122, 6=-78/94, 8-9=-47/164, 28, 116, 4, 15-16=-48, 6, 18-19=0/36 7, 32-33=-81/ 7, 29-30=-81/ 7, 29-30=-81/ 7, 23-24=-81/ 7, 23-24=-81/ 7, 23-24=-81/ 7, 23-24=-96/58 8-29=-96/72, 12-26=-99/72, 12-26=-99/72	53, 5, 97, 97, 97, 97, 97, 97 , 4, 58,	9) * 1 or 3- ch 10) Pr be 35 up 31 up 24 up 11) Tr Int R{ LOAD	his truss the botto 06-00 tall ord and a ovide me aring plat , 42 lb up lift at join , 41 lb up lift at join is truss is ernationa 302.10.2 a CASE(S)	has be om cho by 2-0 iny oth chanic te capa lift at ju t 33, 44 lift at ju t 26, 4 lift at ju t 26, 4 lift at ju t 21. s desig and ref) Star	een designed fo rd in all areas v 0-00 wide will fi er members. al connection (t able of withstan oint 20, 110 lb u 4 lb uplift at join oint 30, 56 lb up 1 lb uplift at join oint 23, 29 lb up ned in accorda dential Code se ierenced standa ndard	r a live load of 20.0psf /here a rectangle t between the bottom by others) of truss to ding 81 lb uplift at joint uplift at joint 34, 26 lb t 32, 40 lb uplift at joint blift at joint 29, 58 lb t 25, 40 lb uplift at joint blift at joint 22 and 97 lb nce with the 2018 ctions R502.11.1 and ard ANSI/TPI 1.
FORCES	$\begin{array}{c} 32=119/20-0-0,\ 33=127/20-0-0,\\ 34=84/20-0-0,\ 35=146/20-0-0\\ Max Horiz\ 35=-189\ (LC\ 6)\\ Max Uplift\ 20=-42\ (LC\ 5),\ 21=-97\ (LC\ 9),\\ 22=-29\ (LC\ 9),\ 23=-44\ (LC\ 9),\\ 24=-40\ (LC\ 9),\ 25=-41\ (LC\ 9),\\ 26=-58\ (LC\ 9),\ 29=-56\ (LC\ 8),\\ 30=-41\ (LC\ 8),\ 31=-40\ (LC\ 8),\\ 32=-44\ (LC\ 8),\ 33=-26\ (LC\ 8),\\ 34=-110\ (LC\ 8),\ 35=-81\ (LC\ 4)\\ Max\ Grav\ 20=152\ (LC\ 15),\ 21=130\ (LC\ 16),\\ 22=127\ (LC\ 22),\ 23=124\ (LC\ 16),\\ 24=123\ (LC\ 16),\ 25=123\ (LC\ 16),\\ 26=126\ (LC\ 16),\ 27=127\ (LC\ 17),\\ 28=136\ (LC\ 18),\ 29=123\ (LC\ 15),\\ 30=123\ (LC\ 15),\ 33=127\ (LC\ 15),\\ 32=125\ (LC\ 15),\ 33=127\ (LC\ 21),\\ 34=150\ (LC\ 15),\ 35=184\ (LC\ 16)\\ (lb) - Maximum\ Compression/Maximum\ Tension\\ \end{array}$			N(1) 2) 3), 3) 3), 3), 3), 4) 3), 5) 3), 6) 3) 7), 6) 3) 7), 8)	OTES Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left right exposed Truss design only. For stu see Standard or consult qu All plates are Gable require Truss to be ft braced again Gable studs : This truss ha chord live loa	16-22=-99/52, 17-21=-89/82 d roof live loads have been considered for E 7-16; Vult=115mph (3-second gust) bh; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. nclosed; MWFRS (envelope) exterior zone; eft and right exposed ; end vertical left and ed; Lumber DOL=1.60 plate grip DOL=1.60 gned for wind loads in the plane of the truss tuds exposed to wind (normal to the face), irrd Industry Gable End Details as applicable, qualified building designer as per ANSI/TPI 1. re 2x4 MT20 unless otherwise indicated. ires continuous bottom chord bearing. fully sheathed from one face or securely inst lateral movement (i.e. diagonal web). s spaced at 1-4-0 oc. nas been designed for a 10.0 psf bottom					ر ار		STATE OF SCO SEV SEV PE-200 PE-200	MISSOLUTION TT M. VIER 1018807

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



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C2	Common	1	1	Job Reference (optional)	149888478

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:50

Wheeler Lumber, Waverly, KS - 66871,



Sca	e =	1:48.4	

Plate Offsets (X, Y): [8:0-3-11,0-8-1], [10:0-2-9,0-4-7]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.17	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.35	8-9	>667	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9	>999	240	Weight: 70 lb	FT = 10%

LUMBER

WEBS

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

6) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and

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

BRACING		
TOP CHORD	Structural 3-1-0 oc p	l wood sheathing directly applied or ourlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	8=955/0-3-8, 10=955/0-3-8
	Max Horiz	10=-192 (LC 6)
	Max Uplift	8=-130 (LC 9), 10=-130 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/42,	2-3=-1148/182, 3-4=-875/141,
	4-5=-875/	/141, 5-6=-1148/183, 6-7=0/42,
	2-10=-852	2/178, 6-8=-852/178
BOT CHORD	9-10=-16	7/901 8-9=-79/881

2x3 SPF No.2 *Except* 10-2,8-6:2x8 SP DSS

WEBS NOTES

 Unbalanced roof live loads have been considered for this design.

4-9=-6/460, 5-9=-255/206, 3-9=-254/206

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 10 and 130 lb uplift at joint 8.

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

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C3	GABLE	1	1	Job Reference (optional)	149888479

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:50 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.3

		-											
Loading FCLL (roof) FCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.85 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%
LUMBER TOP CHORD 30T CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 *Exce 1.8E 2x3 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 3-3-12 oc purlins, e Rigid ceiling directly bracing. (Ib/size) 8=642/0-3 Max Horiz 11=-138 (Max Uplift 8=-91 (LC (Ib) - Maximum Com Tension	ept* 10-9:2x4 SPF 2 ept* 11-2,8-6:2x6 SP athing directly appli- xcept end verticals. applied or 10-0-0 o 3-8, 11=642/0-3-8 (LC 6) 0 9), 11=-91 (LC 8) appression/Maximum	7) 100F 8) 2 DSS 9) ed or 10 11 LC	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/7 designer sho) Provide mec bearing plate 11 and 91 lb) This truss is International R802.10.2 au DAD CASE(S)	as been designed fr ad nonconcurrent v nas been designed m chord in all areas by 2-00-00 wide wil ny other members. int(s) 11, 8 conside IPI 1 angle to grair juid verify capacity hanical connection e capable of withsta uplift at joint 8. designed in accord Residential Code s nd referenced stan Standard	or a 10. vith any for a liv s where I fit betw ers para formul of bear (by oth anding S dance w sections dard AN	0 psf bottom other live loa e load of 20.0 a rectangle veen the bottu llel to grain vi a. Building ing surface. ers) of truss t 01 lb uplift at j ith the 2018 s R502.11.1 a VSI/TPI 1.	nds. Opsf om alue to joint					
FOP CHORD	1-2=0/39, 2-3=-1244 4-5=-1075/203, 5-6= 2-11=-962/130, 6-8=	4/144, 3-4=-1083/25 =-1244/83, 6-7=0/39 =-962/88	52,),										
WEBS	10-11=-135/1066, 9- 4-9=-124/539, 5-9=0 3-10=0/226	-10=-21/507, 8-9=-2)/226, 4-10=-160/60	26/989 18,										
NOTES I) Unbalance this design 2) Wind: ASI Vasd=91r II; Exp C; cantilever right expo	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	been considered fo (3-second gust) DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an 0 plate grip DOL=1.	or Cat. ne; nd 60									STATE OF I	MISSOLIAL T.M. ER

- 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) 5) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web). 6) Gable studs spaced at 1-4-0 oc.

PE-20010188 0 SSIONAL E January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C4	Piggyback Base Structural Gable	1	1	Job Reference (optional)	149888480

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:51

Wheeler Lumber, Waverly, KS - 66871,



0-3-8 Scale = 1:86.2 2-0-0

[6:0-3-8,0-3-0], [7:0-8-4,0-1-12], [7:0-3-0,0-2-7], [8:0-4-8,0-2-0], [8:0-1-1,0-2-0], [17:0-5-0,0-2-8], [17:0-1-6,0-1-8], [20:0-3-0,0-6-4], [21:0-1-12,0-0-4], [23:0-12,0-0-4], [23:0-12,0-4], [23:0-12, Plate Offsets (X, Y): [24:0-1-8,0-1-0]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	18/TPI2014	CSI TC BC WB Matrix-S	0.76 0.54 0.77	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.18 -0.37 0.03 0.03	(loc) 18-19 18-19 17 13-14	l/defl >835 >409 n/a >999	L/d 360 240 n/a 240	PLATES MT18HS MT20 Weight: 321 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF N 2x4 SPF N 2x4 SPF N 19-3,18-5, 10,13-11: 2x4 SPF N Structural 5-7-6 oc p Rigid ceili bracing, 1 Row at (Ib/size) Max Horiz Max Uplift Max Grav	lo.2 lo.2 lo.2 *Exce 17-5,18-4, 2x3 SPF N lo.2 wood shee urlins, exc urlins, exc urlins (10- ng directly midpt 12=628/ N 16=1567/(20=317/0) 20=287 (L 12=-138 (I 12=-733 (L 12=-733 (L 12=733 (L	pt* 19-4, 19-2, 14-9, 13-1 5.2 athing directly applie cept end verticals, ar 0-0 max.): 7-8. applied or 6-0-0 oc 8-16, 7-16, 7-17 4echanical, 0-3-8, 17=1109/0-3-8 3-8 C 5) _C 9), 16=-144 (LC 9 _C 16), 16=162 (LC LC 15), 20=352 (LC 9)	V 0,14- N d or 1 id 2 3, 3 3), 4 2), 5 21) 6	VEBS 3 4 4 5 4 7 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1	8-19=-211/152, 5- 5-17=-593/194, 4- 1-19=-242/1015, 1; 7-16=-382/70, 2-1- 7-14=-466/279, 8- 0-13=-10/167, 10 1-13=-114/676 roof live loads ha 7-16; Vult=115m h; TCDL=6.0psf; E closed; MWFRS i and right exposed t; Lumber DOL=1 ed for wind loads ds exposed to wid 1 Industry Gable E alified building to MT20 plates unl 2x4 MT20 unles	18=-18/2 18=-431/ 3-16=-100 9=-20/52 14=-294/ 0-14=-545 we been of the plate in the plate signer as prevent verses otherwis	63, 188, 96/193, 3, 7-17=-550 1080, 9/182, considered for cond gust) 0psf; h=25ft; e) exterior zoi rertical left ar grip DOL=1. ane of the tru al to the face ils as applica s per ANSI/TI vater ponding wise indicate se indicated.	0/168, pr Cat. ne; nd 60 ss s), ble, Pl 1. g. g. d.	 13) Provest bea 20, 144 14) This Interative R8C 15) Gra or the both both LOAD C 	vide mer ring plat 327 lb u lb uplift s russ is rnationa i2.10.2 a phical p he orient om chor CASE(S)	chanic: e capa plift at at join l Resic I Resic and refe urlin re ration o d.) Star	al connection (by ible of withstandi joint 17, 138 lb u t 16. need in accordand dential Code sec erenced standard presentation doo of the purlin along ndard	r others) of truss to ing 49 lb uplift at joint uplift at joint 12 and ewith the 2018 tions R502.11.1 and d ANSI/TPI 1. es not depict the size g the top and/or
FORCES TOP CHORD BOT CHORD	(b) - Maximum Compression/Maximum 7) Truss to braced (b) - Maximum Compression/Maximum 8) Gables 1-2=0/36, 2-3=-661/65, 3-4=-706/180, 9) This tru 4-5=-131/690, 5-7=-79/860, 7-8=0/560, 9) This tru 8-9=-501/358, 9-10=-515/187, 10) * This tru 10-11=-938/202, 2-20=-374/73, 10) * This tru 11-12=-671/155 3-06-00 19-20=-302/321, 18-19=-239/132, chord a 17-18=-504/196, 16-17=-462/197, 11) Refer tt 14-16=-227/159, 13-14=-136/747, 12) Bearing 12-13=-23/81 detrict) Thiss to be in braced again) Gable studs s) This truss ha chord live loa (0) * This truss h on the botton 3-06-00 tall b chord and an 1) Refer to girdd (2) Bearing at joi using ANSI/T 	st lateral movem spaced at 1-4-0 c s been designed di nonconcurrent as been designed n chord in all area y 2-00-00 wide w y other members ar(s) for truss to t int(s) 20 consider PI 1 angle to gra				SCOT SEV	MISSOLA 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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C5	Piggyback Base	3	1	Job Reference (optional)	149888481

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:51 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



NOTES

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



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C6	Piggyback Base	2	1	Job Reference (optional)	149888482

2-4-12

2-4-12

8-1-6

5-8-10

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:25:52

Page: 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 20-1-4 23-5-2 28-5-8 35-3-11 39-8-14 3-6-6 3-3-14 5-0-6 6-10-3 4-5-3 2x4 u MT18HS 8x12 # 6x6= 6 4 2x4 II



Plate Offsets (X, Y): [1:Edge,0-2-8], [4:0-1-12,0-5-0], [6:0-3-0,0-1-12], [9:Edge,0-1-8], [10:Edge,0-2-8], [7	[19:0-2-0,0-3-15]
---	-------------------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.85	Vert(LL)	-0.27	12-13	>879	360	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.42	12-13	>556	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	16-17	>999	240	Weight: 184 lb	FT = 10%

LUMBER TOP CHORD BOT CHORD

WEBS

2x4 SPF No.2

NOTES

2)

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

16-6-14

8-5-8

2x3 SPF No.2 *Except* 13-6,12-6:2x4 SPF No 2 BRACING Structural wood sheathing directly applied or TOP CHORD 3-8-12 oc purlins, except end verticals, and 3) 2-0-0 oc purlins (10-0-0 max.): 4-6. 4) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 3-7-9 oc bracing: 13-14 6-0-0 oc bracing: 12-13. 1 Row at midpt 5-14 WEBS 1 Row at midpt 4-14, 6-13, 3-15 REACTIONS (lb/size) 10=779/ Mechanical, 13=1977/0-3-8, 18=802/0-3-8 Max Horiz 18=222 (LC 5) Max Uplift 10=-76 (LC 9), 18=-28 (LC 8) 10=961 (LC 14), 13=2061 (LC 13), Max Grav 9) 18=880 (LC 13) FORCES (Ib) - Maximum Compression/Maximum Tension 1-2=-2450/192, 2-3=-1279/95, 3-4=-432/164 TOP CHORD 4-5=-79/211, 5-6=-81/209, 6-7=-933/284 7-8=-898/167, 8-9=-1280/134, 1-18=-944/82 9-10=-886/95 BOT CHORD 17-18=-236/315, 16-17=-232/2156 15-16=-84/1207, 14-15=-2/230, 13-14=-1165/86, 5-14=-264/71 12-13=-14/181, 11-12=-82/1045, 10-11=-10/100 WEBS 2-17=-57/577, 3-16=0/454, 4-15=0/689, 4-14=-1049/42, 1-17=-141/1974, 7-12=-463/171, 8-11=-43/119, 9-11=-73/958, 8-12=-454/86, 6-13=-837/18 6-12=-119/1140, 2-16=-961/150,

3-15=-1100/154

2x4 SPF No.2 *Except* 5-13:2x3 SPF No.2

- Wind: ASCE 7-16: Vult=115mph (3-second aust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 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 5) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 18 considers parallel to grain value 8) 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 28 lb uplift at joint 18 and 76 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C7	Piggyback Base	1	1	Job Reference (optional)	149888483

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:52 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

January 27,2022

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C8	Piggyback Base	3	1	Job Reference (optional)	149888484

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:52 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [1:0-2-15,0-1-12], [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]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-S	0.57 0.90 0.87	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.33 -0.06 0.05	(loc) 14-15 14-15 13 16-17	l/defl >999 >733 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 194 lb	GRIP 197/144 FT = 10%
	2v4 SDE No 2		1)	Unbalanced	roof live loads hav	e been o	considered fo	or					
BOT CHORD	2x4 SPF No.2 this design. 2x4 SPF No.2 *Except* 16-3:2x3 SPF No.2, 15:14:2x6 SPF No.2, 13:10:2x4 SPF 2100F 1.8E Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 1.8E II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed;												
WEBS	2x3 SPF No.2 *Exce 13-6,12-6,15-4:2x4 S	pt* 18-1:2x6 SPF No. SPF No.2	.2,	and right exp Lumber DOL	osed ; end vertica =1.60 plate grip D	l left and OL=1.60	l right expose)	ed;					
BRACING			3)	Provide adec	juate drainage to p	revent	vater ponding	g.					
TOP CHORD	 3) Provide adequate drainage to prevent water ponding. 3) 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. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf 												
BOT CHORD	Rigid ceiling directly bracing. Except:	applied or 2-2-0 oc		on the botton 3-06-00 tall b chord and an	n chord in all areas y 2-00-00 wide wil y other members.	s where I fit betv with BC	a rectangle /een the botto DL = 10.0psf	om f.					
1 Row at midpt WEBS	5-14 1 Row at midpt	6-13. 4-14	6)	Refer to girde	er(s) for truss to tru	iss conr	ections.						

6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 18 and 91 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018

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

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

LOAD CASE(S) Standard



Page: 1

16023 Swingley Ridge Rd Chesterfield, MO 63017

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

Max Horiz

Max Grav

Tension

9-10=-729/109

10-11=-12/92

4-14=-1022/69

10=688/ Mechanical,

18=220 (LC 5)

Max Uplift 10=-91 (LC 9), 18=-52 (LC 8)

18=763 (LC 13)

4-5=0/468, 5-6=0/462, 6-7=-651/311, 7-8=-639/194, 8-9=-1038/156, 1-18=-630/72,

3-15=-501/176, 14-15=-150/67, 13-14=-1367/45, 5-14=-273/68, 12-13=-171/44, 11-12=-101/836,

6-13=-993/2, 6-12=-120/1156,

9-11=-90/756, 4-15=-147/1320,

(Ib) - Maximum Compression/Maximum

1-2=-949/89, 2-3=-788/144, 3-4=-911/275,

17-18=-119/883, 16-17=-97/37, 15-16=0/97,

2-15=-142/30, 2-17=-135/85, 15-17=-88/934,

7-12=-463/172, 8-12=-493/82, 8-11=-29/145,

13=2147/0-3-8, 18=712/0-3-8

10=803 (LC 14), 13=2391 (LC 13),

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	C9	Piggyback Base Girder	1	4	Job Reference (optional)	149888485

Scale = 1:72.2

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:53 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.64 0.76 0.60	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.21 0.03 0.07	(loc) 9-10 9-10 7 7-8	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 567 lb	GRIP 197/144 142/136 FT = 10%
LUMBER TOP CHORD BOT CHORD BAACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SPF No.2 2x6 SP 2400F 2.0E - No.2 2x4 SPF No.2 *Exce Structural wood shea 6-0-0 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 7=6728/0- Max Horiz 11=314 (L Max Uplift 7=-967 (L Max Grav 7=7842 (L (lb) - Maximum Com Tension 1-2=-11359/883, 2-4 4-5=-6070/637, 5-6=	*Except* 9-4:2x4 SPF pt* 11-1:2x8 SP DSS athing directly applied cept end verticals, and -0 max.): 5-6. applied or 10-0-0 oc 6-7 -3-8, 11=7303/0-3-8 .C 20) C 5), 11=-765 (LC 8) .C 13), 11=8648 (LC - pression/Maximum =-6042/541, -122/85, 6-7=-129/50	2) 3) or 4) 5) 6) 7) (3) 8)	All loads are except if note CASE(S) sec provided to d unless otherw Wind: ASCE Vasd=91mph II; Exp C; End and right exp Lumber DOL. Provide adeq All plates are This truss ha chord live load * This truss ha on the bottom 3-06-00 tall b chord and an Provide mect bearing plate ioint 7 and 76	considered equal! d as front (F) or b tion. Ply to ply cor istribute only loads vise indicated. 7-16; Vult=115mp ; TCDL=6.0psf; B closed; end vertica =1.60 plate grip D uate drainage to p MT20 plates unle s been designed fi d nonconcurrent v as been d no	y applie ack (B) innection s noted h (3-sec CDL=6.0 cnvelope l left and OL=1.60 or a 10.0 vith any for a liv s where l fit betw with BC (by oth anding S 1	d to all plies, face in the LO s have been as (F) or (B), cond gust) Dpsf; h=25ft; C a); cantilever li d right expose to get the expose water ponding wise indicater to psf bottom other live load e load of 20.0 psf bettom DL = 10.0psf. eres) of truss to fo7 lb uplift at	Cat. eft d; d. ds. psf om	14) Fill LOAD (1) De Pla Ur Co	all nail h CASE(S) pad + Rc ate Incre- iform Lc Vert: 1-{ 0 rentra Vert: 7= 14=-146 17=-145 (B)	oles w) Stan bof Live asse=1 bads (II 5=-70, ted Lo -831 (I 50 (B), 56 (B),	here hanger is in ndard e (balanced): Lun .15 5-6=-70, 9-11=-2 ads (lb) 3), 12=-1456 (B), 15=-1460 (B), 16 18=-1016 (B), 20	contact with lumber. her Increase=1.15, 20, 7-8=-20 13=-1460 (B), 3=-1460 (B), 3=-823 (B), 21=-823
BOT CHORD WEBS 1) 4-ply truss (0.131"x3" Top chord oc, 2x8 - 2 Bottom ch staggered Web conn Attach BC center of t	1-11=-6465/505 10-11=-691/3856, 9- 8-9=-12/2264, 4-8=- 2-10=-329/4603, 8-1 2-8=-5191/458, 5-8= 5-7=-5947/557, 1-10 to be connected toget) nails as follows: s connected as follows: s connected as follows: at 0-4-0 oc, 2x4 - 1 ro ected as follows: 2x4 - w/ 1/2" diam. bolts (As he member w/washers	10=0/1119, 401/147, 7-8=-267/22 0=-948/8827, -865/8938, =-254/6049 ther with 10d :: 2x4 - 1 row at 0-9-0 -0 oc. bws: 2x6 - 3 rows w at 0-9-0 oc. 1 row at 0-9-0 oc. STM A-307) in the : at 4-0-0 oc.	9) 26 10 11 12 13	This truss is a International R802.10.2 ar Graphical pui or the orienta bottom chord Use Simpson Truss) or equ 1-11-4 from t back face of l Use Simpson Truss, Single oc max. start connect truss Use Simpson Truss) or equ 13-11-4 from	designed in accord Residential Code d referenced stan flin representation tion of the purlin a Strong-Tie HUS2 ivalent spaced at he left end to 5-11 pottom chord. Strong-Tie HUS2 Ply Girder) or equing at 7-11-4 from (es) to back face Strong-Tie HUS2 ivalent spaced at the left end to 20-	dance w sections dard AN does no long the 6 (14-11 2-0-0 oc -4 to co 6 (14-11 iivalent the left of botton 6 (14-11 2-2-8 oc 1-12 to	ith the 2018 R502.11.1 ar ISI/TPI 1. bt depict the si e top and/or Dd Girder, 6-11 spaced at 2-0 end to 11-11 n chord. Dd Girder, 4-11 ; max. starting connect truss(nd ize 0d 9 at 5) to 0d -0 4 to 0d 9 at (es)			A A A A A A A A A A A A A A A A A A A	STATE OF M SCOT SEVI NUM PE-2001	MISSOL T M. ER 018807

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.



January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	D1	Common Supported Gable	1	1	Job Reference (optional)	149888486

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:53 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	D2	Common	4	1	Job Reference (optional)	149888487

5-0-2



Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.91	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.64	Vert(CT)	-0.39	9-11	>621	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.16	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.10	9-11	>999	240	Weight: 68 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce	6) This truss is designed in accordance with the 20182x4 SPF No.2International Residential Code sections R502.11.1 and2x3 SPF No.2 *Except* 12-2,8-6:2x8 SP DSSLOAD CASE(S) Standard											
BRACING													
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.												
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C										
REACTIONS	Dracing. (lb/size) 8=991/0-3-8, 12=991/0-3-8 Max Horiz 12=-66 (LC 9) Max Uplift 8=-143 (LC 9)												
FORCES	(ib) - Maximum Compression/Maximum Tension												
TOP CHORD	1-2=0/32, 2-3=-1541/197, 3-4=-1394/220, 4-5=-1394/220, 5-6=-1541/197, 6-7=0/32, 2-12=-907/170, 6-8=-907/170												

WEBS NOTES

BOT CHORD

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

8-9=-119/1326

3-11=-251/176

11-12=-185/1326, 9-11=-59/968,

4-9=-89/469, 5-9=-251/176, 4-11=-88/469,

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 143 lb uplift at joint 12 and 143 lb uplift at joint 8.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	D3	Roof Special Girder	1	2	Job Reference (optional)	149888488

Scale = 1:71.5

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:54 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017 Page: 1



Landing (r.s) Spacing 2-4-0 (CS)		(X, 1). [2.0	o o,Eugej,	[10:0 0 0;0 0 12]; [17	.0 0 11,0	10], [20.01	0,0 0 4], [00.0 0 0	0,0 2 0], [00.00100,0011	5]						
LUMBER TOP CHORD 2x4 SPF No.2 "Except" 4-2:2x4 SPF 2100F 1.8E BOT CHORD 2x4 SPF No.2 "Except" 33-1:2x4 SPF 2100F 1.8E DOT CHORD 3x3-56-2252-206, 31-33-1:341/8921, 22-353-41363, 32-25-353/4363, 3	Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	5/TPI2014	CSI TC BC WB Matrix-S	0.60 0.46 0.83	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.24 0.04 0.10	(loc) 27-29 26-28 7 27-29	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 365 I	GRIP 197/144 b FT = 10%	
LUMBER DD CHORD 2x4 SPF No.2 "Except 4-2:2x4 SPF 2100F 1.8E DT CHORD 2x4 SPF No.2 "Except 4-2:2x4 SPF 2100F 1.8E DT CHORD 2x4 SPF No.2 "Except 33-1:2x4 SPF 2100F 1.8E DT CHORD 3x35-325(206, 31:33-1:341/8921, 7:29-1:341/8921, 2:325-1148/4865, 1:2577-1:341/8921, 2:3257-1148/4865, 1:2577-1:341/8921, 2:2574-1:341/302, 2:25-244/31/302, 2:25-				1				-			-	-		Ū		-
 Sub-Ordina (value) Sab-Sheilor 3, Siender 1, Sab-Sheilor 1, Sab-Sheilo	LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS	 CRD 2x4 SPF No.2 *Except* 4-2:2x4 SPF 2100F 1.8E ORD 2x6 SP 2400F 2.0E 2x4 SPF No.2 *Except* 33-1:2x4 SPF 2100F 1.8E S 2x4 SPF No.2 G ORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-5 max.): 1-2. ORD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-7, 3-16, 5-7 1 Brace at Jt(s): 1, 30, 28, 26, 22, 20, 13, 11, 10, 34 ONS (lb/size) 7=4878/0-3-8, (req. 0-4-2), 35=5161/0-3-8, (req. 0-4-6) Max Horiz 35=282 (LC 8) Max Uplift 7=-682 (LC 8), 35=-730 (LC 8) 					33-35=-325/206, 29-31=-1341/892 25-27=-1341/892 21-23=-1184/845 16-18=-1158/827 12-14=-539/4363, 30-32=-1431/302 26-28=-1431/302 26-28=-1431/302 22-24=-987/154, 17-20=-987/154, 13-15=-513/57, 1-34=-962/8312, 32-33=-3676/403 24-25=-310/2180 3-17=-4277/643, 15-16=-337/3306 5-9=-5540/703.7		 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 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. Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated. 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. 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 							
Tension NOTES TOP CHORD 1-35=-4813/587, 1-2=-7099/815, 2-3=-8207/858, 3-5=-4279/380, 5-6=-111/56, 6-7=-179/91 1 2-ply truss to be connected together with 10d (0,131*32) nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-4-0 oc. 1 Scott 2 All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH ASC COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER. Design and the full place of the second of the secon	FORCES	Max Horiz Max Uplift Max Grav	35=5161/0 35=282 (L 7=-682 (L 7=5236 (L	0-3-8, (req. 0-4-6) .C 8) .C 8), 35=-730 (LC 8) .C 18), 35=5607 (LC	18)		5-9=-5540/703, 7 30-31=-32/68, 28 26-27=-109/482, 20-21=-43/329, 1 11-12=-36/116, 8 17-18=-146/989	-9=-6610, -29=-118, 22-23=-3- 3-14=-14, -10=-131,	807, /694, 4/188, 6/1106, /1038,		3-0 chc 11) WA gre	6-00 tall and and a RNING: ater thar	by 2-0 iny oth Requi i input	00-00 wide will f ler members. ired bearing siz bearing size.	it between the bottom e at joint(s) 35, 7	
TOP CHORD 1:35=-4813/587, 1-2=-7099/815, 2-3=-8207/858, 3-5=-4279/380, 5-6=-111/56, 6-7=-179/91	TOROLO	Tension		pression/maximum	NO	TES								2000	April	
Continued on page 2 OR THE BUILDING DESIGNER.	Torrestor NOTES Tension NOTES TOP CHORD 1-35=-4813/587, 1-2=-7099/815, 1) 2-7 2-3=-8207/858, 3-5=-4279/380, 5-6=-111/56, (0. (0. (0. 6-7=-179/91 To oc. Bo Supplementation Supplementation Notes Supplementation Supplementation Notes GAR GAR Product Supplementation Supplementation Supplementation Supplementation <td colspan="5">v truss to be connected together with 10d 31"x3") nails as follows: chords connected as follows: 2x4 - 1 row at 0-6-0 om chords connected as follows: 2x6 - 2 rows gered at 0-9-0 oc. connected as follows: 2x4 - 1 row at 0-4-0 oc. pads are considered equally applied to all plies, opt if noted as front (F) or back (B) face in the LOAD E(S) section. Ply to ply connections have been ided to distribute only loads noted as (F) or (B), ss otherwise indicated. BEARING PLATES, SPECIAL ANCHORAGE, OR ALLOW FOR THE MINIMUM REQUIRED SUPPORT SOLUME CAR DEADED AND AND AND AND AND AND AND AND AND AN</td> <td></td> <td></td> <td>STATE OF SCO SE SE NUN PE-200 Janua</td> <td>MISSOLUE TT M. VIER DIO18807</td> <td>></td>						v truss to be connected together with 10d 31"x3") nails as follows: chords connected as follows: 2x4 - 1 row at 0-6-0 om chords connected as follows: 2x6 - 2 rows gered at 0-9-0 oc. connected as follows: 2x4 - 1 row at 0-4-0 oc. pads are considered equally applied to all plies, opt if noted as front (F) or back (B) face in the LOAD E(S) section. Ply to ply connections have been ided to distribute only loads noted as (F) or (B), ss otherwise indicated. BEARING PLATES, SPECIAL ANCHORAGE, OR ALLOW FOR THE MINIMUM REQUIRED SUPPORT SOLUME CAR DEADED AND AND AND AND AND AND AND AND AND AN							STATE OF SCO SE SE NUN PE-200 Janua	MISSOLUE TT M. VIER DIO18807	>
	Continued on	page 2 NING - Verify de	sign paramete	OR ers and READ NOTES ON T	HE BUIL	DING DESIGN LUDED MITEK F	IER. REFERENCE PAGE MI	I-7473 rev. 5	/19/2020 BEFORI	E USE.						

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	D3	Roof Special Girder	1	2	Job Reference (optional)	149888488
Wheeler Lumber Waverly KS - 6	56871	Run: 8.43 S. Oct 11.2	021 Print: 8	430 S Oct 11	2021 MiTek Industries Inc. Tue Jan 25 15:25:54	Page: 2

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Wheeler Lumber, Waverly, KS - 66871,

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 Ib 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

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

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



Page: 2

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	P1	Piggyback	1	1	Job Reference (optional)	149888489

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:55 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26.8

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

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%
LUMBER				7	* This truss I	has been design	ed for a live	e load of 20.	0psf					
TOP CHOR	D 2x4 SPF N	o.2			on the bottor	m chord in all are	eas where	a rectangle						
BOT CHOR	D 2x4 SPF N	o.2			3-06-00 tall I	by 2-00-00 wide	will fit betw	een the bott	om					
OTHERS	2x4 SPF N	o.2			chord and a	ny other member	rs.							
BRACING				8)	Provide med	hanical connecti	ion (by othe	ers) of truss	to					
TOP CHOR	D Structural v 6-0-0 oc pu	wood shea urlins.	athing directly applie	ed or	bearing plate 2, 8 lb uplift	e capable of with at joint 6, 52 lb u	istanding 5 iplift at join	lb uplift at jo t 9 and 49 lb	pint					
BOT CHOR	D Rigid ceilin	ng directly	applied or 6-0-0 oc	9)	uplift at joint This truss is	8. designed in acco	ordance wi	th the 2018						
REACTION	S (lb/size)	2=113/5-2 8=159/5-2	2-6, 6=113/5-2-6, 2-6, 9=159/5-2-6		International R802.10.2 a	Residential Cod nd referenced st	andard AN	R502.11.1 a	and					
	Max Horiz	2=-48 (I C	: 6)	10)) See Standar	d Industry Piggy	back Truss	s Connectior	1					
	Max Unlift	2=-5 (I C)	8) 6=-8 (IC 9) 8=-4	19 (I C	Detail for Co	nnection to base	e truss as a	applicable, or	ſ					
	(indx opint)	9), 9=-52	(LC 8)		consult quali	fied building des	signer.							
	Max Grav	2=114 (LC	C 21), 6=114 (LC 22)), L	OAD CASE(S)	Standard								
	8	8=164 (LC	C 16), 9=166 (LC 15)										
FORCES	(lb) - Maxin Tension	num Com	pression/Maximum											
TOP CHOR	D 1-2=0/17, 2 5-6=-47/50	2-3=-51/54), 6-7=0/17	4, 3-4=-20/6, 4-5=-2 7	0/7,										
BOT CHOR	D 2-9=-26/68	8, 8-9=-26	/68, 6-8=-26/68											
WEBS	3-9=-130/7	3, 5-8=-12	28/71											
NOTES														an
1) Unbalar	ced roof live lo	ads have	been considered for	r									OFI	MIG
, this des	ign.												ALE	ISS W
2) Wind: A	SCE 7-16; Vult	=115mph	(3-second gust)									6	A.M.	N.S.
Vasd=9	1mph; TCDL=6	0.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.								R	SCOT	TM. VEN
II; Exp C	; Enclosed; MV	WFRS (en	velope) exterior zor	ne;								a	SEV	ER VV
cantilev	er left and right	exposed	; end vertical left and	d								12 +		- \ * 8
right exp	oosed; Lumber	DOL=1.6	0 plate grip DOL=1.6	60								a 0		
3) Truss de	esigned for wind	d loads in	the plane of the true	SS								81	LTD.	200 MAR
only. Fo	or studs expose	ed to wind	(normal to the face)),							-	4	NUM	DARK VER
see Sta	ndard Industry (Gable End	Details as applicat	DIE,								N	O∖ PE-2001	018807
or consu	ut qualified buil	aing desig	gner as per ANSI/TF	44.								(V	12	188
4) Gable re	equires continue	ous bottor	m chord bearing.										0.500	NO'B
5) Gable S	luus spaced at	1-4-0 0C.	a 10.0 pat hottom										ONA	LELA
OF THIS TRUE		SIGNED 101												

6) chord live load nonconcurrent with any other live loads.

ame January 27,2022

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	P2	Piggyback	9	1	Job Reference (optional)	149888490

2-0-0

-0-9-15 2-7-3 5-2-6 6-0-5 0-9-15 2-7-3 2-7-3 0-9-15 4x4 = 12 7 Г 3 Å 1-10-8 2 4 -4-5 5

Ø a 6 2x4 = 2x4 =

2x4 II

5-2-6

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:55

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:24.3

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.11	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(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-P							Weight: 16 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly	athing directly applied or 10-0-0 o	8) 9) ed or 10 c	Provide mec bearing plate 2 and 49 lb u This truss is International R802.10.2 ar) See Standar Detail for Co	hanical connectio capable of withst plift at joint 4. designed in accor Residential Code nd referenced star d Industry Piggyb nnection to base t	n (by oth tanding 4 rdance w sections ndard AN ack Truss truss as a	ers) of truss to 3 lb uplift at jo ith the 2018 R502.11.1 at ISI/TPI 1. s Connection applicable, or	o pint nd					
	bracing.			consult quali	ried building desig	gner.							
REACTIONS	(lb/size) 2=168/5-2 6=207/5-2	2-6, 4=168/5-2-6, 2-6	LC	DAD CASE(S)	Standard								
	Max Horiz 2=-48 (LC	6)											
	Max Uplift 2=-43 (LC	2 8), 4=-49 (LC 9)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/17, 2-3=-74/4	1, 3-4=-71/29, 4-5=0	0/17										
BOT CHORD	2-6=-8/36, 4-6=-8/36	6											
WEBS	3-6=-142/35												
NOTES													
1) Unbalance this design	ed roof live loads have h.	been considered fo	r										
 Wind: ASC Vasd=91n II; Exp C; cantilever right expo Truss des 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 igned for wind loads in	(3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1. the plane of the tru	Cat. ne; id 60 ss									TE OF M	AISSOL
,			、 、								D	AVI	

- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.

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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V1	Valley	1	1	Job Reference (optional)	149888491

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:55 ID: Hr0U loy IgMOrZQ4 rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffc2PsB70Hq8NgPqNL8w3uITXbGKWrCDoi7J4zJC?ffc2PsB70Hq8NgPqNL8w3uITXbGKWrCDoi7J4zJC?ffc2PsB70Hq8NgPqNL8w3uITXbGKWrCDoi7J4zQFqNHq8NgPqNL8w3uITXbGKWrCDoi7J4zQFqNHq8NgPqNL8w3uITXbGKWrCDoi7J4ZWFqPANgPNAAPsPaNgPNAAPsPNAPsPNAAPsPNAAPsPNAAPsPNAAPsPNAAPsPNAAPsPNAAPsP

Page: 1



17-9-13

Scale = 1:46.8

Plate Offsets	(Х,	Y):	[11:Edge,0-2-8]
---------------	-----	-----	-----------------

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.44 0.10 0.10	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 81 lb	GRIP 197/144 FT = 10%	_
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling directl bracing. (lb/size) 1=91/17 12=129/ 14=178/ 16=179/ 18=1622/ Max Horiz 1=309 (I Max Uplift 11=-113 13=-35 (15=-47 (17=-49 (19=-63 (Max Grav 1=130 (I 12=157 14=178 16=179 18=162	eathing directly applie xcept end verticals. y applied or 10-0-0 oc 9-13, 11=-5/17-9-13, 17-9-13, 15=181/17-9 17-9-13, 15=181/17-9 17-9-13, 17=185/17-9 C 7) (LC 7), 12=-84 (LC 8 LC 8), 14=-52 (LC 8), LC 8), 16=-48 (LC 8), LC 8), 18=-43 (LC 8), LC 8), 18=-43 (LC 8), LC 8), 11=76 (LC 4), (LC 16), 15=181 (LC 1) (LC 1), 15=181 (LC 1) (LC 1), 17=185 (LC 1)	Wi ed or 2 1-13, 1-13, 1-13, 1-13, 2 1,-13, 4) 5) 1, 6) 7) 1), 8) 1, 1, 8)	EBS 2 5 8 0TES Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever left right exposed Truss design only. For stu see Standarc or consult qu All plates are Gable require Gable studs s This truss ha on the bottom 3-06-00 tall b chord and an Provide mect bearing plate 11, 63 lb uplii uplift at joint	-19=-179/90, 3-18: -16=-139/72, 6-15: -13=-150/65, 9-12: 7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (e and right exposed ; Lumber DOL=1.6; ed for wind loads ir ds exposed to wind: Industry Gable Er alified building desi 2x4 MT20 unless - se continuous botto spaced at 2-0-0 oc. s been designed fod d nonconcurrent was been designed for a chord in all areas y 2-00-00 wide will y other members. nanical connection capable of withstat t at joint 19, 43 lb u (7, 48 lb uplift at jot t at joint 14, 35 lb u 7.5000000000000000000000000000000000000	=-128/6 =-141/7 =-95/97 (3-sec CDL=6.0 nvelope (; end v So plate n the plate n the plate n the plate d (norm d Deta igner as otherwi m chor for a 10.0 for a 10.0 for a 10.0 for a 10.0 for a liv where fit betw (by oth nding 1 uplift at int 16, 4	6, 4-17=-143 1, 7-14=-138 ond gust) Dpsf; h=25ft; e) exterior zorerical left an grip DOL=1. ane of the trual to the face Is as applica se indicated. d bearing. D psf bottom other live load e load of 20.0 a rectangle reen the bottom rest) of truss t 13 lb uplift at joint 18, 49 lk 17 lb uplift at joint 18, 49 lk	/73, /74, /74, Cat. ne; d 60 ss), ble, PI 1. ds. Opsf om o co joint a4 lh				STE OF M	AISSOL	
TOP CHORD	Tension 1-2=-262/38, 2-3=- 4-5=-184/27, 5-6=- 7-8=-142/42, 8-9=- 10-11=-71/55 1-19=-101/76, 18-1 17-18=-101/76, 14-1 13-14=-101/76, 14-1 13-14=-100-100-100-100-100-100-100-100-100-10	232/23, 3-4=-208/28, 168/27, 6-7=-154/27, 121/64, 9-10=-68/49, 9=-101/76, 17=-101/76, 15=-101/76, 15=-101/76,	9) LC	uplift at joint This truss is of International R802.10.2 ar DAD CASE(S)	12. Jesigned in accord Residential Code s d referenced stand Standard	ance w sections dard AN	th the 2018 R502.11.1 a ISI/TPI 1.	Ind		ç		S SCOTT SEVI	ER DISSO7	
	11-12=-101/76, 12- 11-12=-101/76	13=-101/70,										SIONA	LENS	

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

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V2	Valley	1	1	Job Reference (optional)	149888492

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:55 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.2

Loading		(psf)	Spacing	2-0-0		CSI	0.24	DEFL	in n/c	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15			0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
BCLI		0.0*	Rep Stress Incr	YES		WB	0.14	Horiz(TL)	0.00	- 6	n/a	999 n/a			
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S	0.10						Weight: 46 lb	FT = 10%	
LUMBER				6	6) This truss ha	is been designed f	for a 10.0) psf bottom							
TOP CHORD	2x4 SPF	No.2		-	chord live loa	ad nonconcurrent	with any	other live loa	ids.						
	2X4 SPF	N0.2 No 2		'	on the bottor	n chord in all area	s where	e load of 20.0 a rectandle	opsi						
OTHERS	2x3 SPF	No.2			3-06-00 tall b	by 2-00-00 wide wi	ill fit betv	veen the botto	om						
BRACING					chord and ar	y other members,	, with BC	DL = 10.0psf	f.						
TOP CHORD	Structura	I wood she	athing directly applie	ed or ⁸	 Provide mec 	hanical connection	n (by oth	ers) of truss t	to						
	6-0-0 oc	purlins, ex	cept end verticals.		6 104 lb upli	e capable of withst	anding 3	3 ID UPLIFT at J	oint						
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 or	2	uplift at joint	9.			U						
REACTIONS	(lb/size)	1=70/15-1	1-11, 6=142/15-1-11 -1-11, 8=360/15-1-1	, 9 1	International	Residential Code	sections	R502.11.1 a	and						
		9=326/15	-1-11	1,	R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.							
	Max Horiz	1=261 (LC	C 5)	L	OAD CASE(S)	Standard									
	Max Uplift	6=-33 (LC	C 5), 7=-104 (LC 8), 8	8=-96											
		(LC 8), 9=	=-87 (LC 8)												
	Max Grav	1=117 (LC	C 16), 6=172 (LC 2),	3-336											
		(LC 2)	0 2), 0=304 (LO 2), 8	-330											
FORCES	(lb) - Max Tension	timum Com	pression/Maximum												
TOP CHORD	1-2=-223/ 4-5=-126/	/42, 2-3=-1 /52, 5-6=-1	84/53, 3-4=-150/53, 10/43												
BOT CHORD	1-9=-85/6 6-7=-85/6	64, 8-9=-85 64	/64, 7-8=-85/64,										Canad	1000	
WEBS	4-7=-306	/143, 3-8=-	280/147, 2-9=-251/1	28									F. OF I	AIS S	
NOTES												6	A. A.	0.0	
1) Wind: AS	CE 7-16; Vu	It=115mph	(3-second gust)	2-4								A	SCOT	ГМ. СР	8
Vasd=91	The sed of the section of the sectio	⊧b.Upst; BC /W/FRS (er	DL=6.0pst; n=25π; (Jat.								A .	SEVI	ER \	YA .
cantileve	left and right	nt exposed	; end vertical left and	d								2*		*	CN .
right expo	osed; Lumbe	r DÓL=1.6	0 plate grip DOL=1.6	50								81		.0 +	9
2) Truss des	signed for wi	nd loads in	the plane of the true	SS								02	Cotte	reve	Ø
only. For	studs expos	Sed to wind	I (normal to the face)),) 0								N?	O PE-2001	018807	A
or consul	t qualified bu	uilding desi	aner as per ANSI/TF	910, 911.								V	The last		7
 All plates 	are 2x4 MT	20 unless c	otherwise indicated.										Ssi	ENG	
4) Gable red	uires contin	uous botto	m chord bearing.										WNA	L	
b) Gable stu	ids spaced a	at 4-0-0 oc.											January	27.2022	
														,	



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V3	Valley	1	1	Job Reference (optional)	149888493

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.3

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.20 0.13 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF N 2x4 SPF N 2x3 SPF N 2x3 SPF N Structural 6-0-0 oc pr Rigid ceilir bracing. (Ib/size) Max Horiz Max Uplift Max Grav	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	athing directly applied cept end verticals. applied or 10-0-0 oc -4-2, 5=143/12-4-2, -4-2, 7=377/12-4-2 > 5) 5 , 6=-103 (LC 8), C 8) > 16), 5=170 (LC 2), > 2), 7=384 (LC 2)	6) 7) d or 8) LC	* This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 5, 103 lb upli This truss is International R802.10.2 ar	has been designed m chord in all areas by 2-00-00 wide wil by other members, hanical connection e capable of withsta iff at joint 6 and 10 designed in accord Residential Code and referenced stan Standard	for a liv s where II fit betw with BC o (by oth anding 2 1 lb uplit dance w sections dard AN	e load of 20.0 a rectangle veen the botto DL = 10.0psf ers) of truss t 9 lb uplift at jo t at joint 7. th the 2018 R502.11.1 a SI/TPI 1.	Opsf om o oint nd						
FORCES	(lb) - Maxir Tension	num Com	pression/Maximum												
TOP CHORD	1-2=-172/5 4-5=-110/4	64, 2-3=-13 3	35/51, 3-4=-116/40,												
BOT CHORD WEBS	1-7=-68/51 3-6=-304/1	, 6-7=-68/ 48, 2-7=-2	/51, 5-6=-68/51 287/147												
NOTES														-	
 Wind: ASG Vasd=91n II; Exp C; cantilever right expo Truss des only. For see Stand 	CE 7-16; Vult nph; TCDL=6 Enclosed; MV left and right sed; Lumber igned for win studs expose lard Industry	=115mph 6.0psf; BC WFRS (en exposed DOL=1.60 d loads in ed to wind Gable End	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone; end vertical left and 0 plate grip DOL=1.6 the plane of the trus: (normal to the face), d Details as applicable	at. e; l 0 s le.									STATE OF I	MISSOLA T M. ER	

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.

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

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



NUN BE

PE-200101880

E

January 27,2022

SSIONAL

0

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V4	Valley	1	1	Job Reference (optional)	149888494

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



9-6-8

Scale = 1:30

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%
LUMBER			7) Provide me	chanical connectio	on (by oth	ers) of truss t	o					
TOP CHORD	2x4 SPF No.2		bearing pla	te capable of withs	standing 2	23 lb uplift at j	oint					
BOT CHORD	2x4 SPF No.2		4 and 130 I	b uplift at joint 5.	Ū							
WEBS	2x3 SPF No.2		This truss is	s designed in acco	ordance w	ith the 2018						
OTHERS	2x3 SPF No.2		Internationa	al Residential Code	e sections	s R502.11.1 a	ind					
BRACING			R802.10.2	and referenced sta	andard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she	athing directly applie	ed or LOAD CASE(S) Standard								
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	C									
	bracing.											
REACTIONS	(lb/size) 1=174/9-0	6-8, 4=121/9-6-8,										
	5=491/9-0	0-8 0 5)										
	Max Horiz 1=159 (LO											
		5), 5=-130 (LC 8)										
FORCES	(Ib) - Maximum Con	npression/Maximum										
		00/20 2 4 00/20										
	1-2=-123/72, 2-3=-1	06/29, 3-4=-96/39										
WERS	1-5=-51/59, 4-5=-51	/39										
NOTEO	2-3=-372/103											
NUIES		(2 accord such)										
I) Wind. ASC	r = 10, $vuit=110inpin$	1 (3-Second gust)	Cat									
II: Exp C: I	Enclosed: MWERS (e)	velope) exterior zon	5al. 1e.									
cantilever	left and right exposed	: end vertical left and	d								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
right expos	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	60								Ann	and
2) Truss desi	gned for wind loads in	the plane of the trus	SS								B.F. OF M	ALSS D
only. For	studs exposed to wind	(normal to the face)),							4	ZA	NS
see Stand	ard Industry Gable En	d Details as applicab	ole,							B	SCOT	M XA

- or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V5	Valley	1	1	Job Reference (optional)	149888495

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.3

BOT CHORD

BOT CHORD

FORCES

NOTES

2)

4)

5)

6)

7)

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

WEBS

BRACING TOP CHORD 2x4 SPF No.2 2x3 SPF No.2

bracing.

Tension

1-3=-35/27

Max Horiz 1=108 (LC 5)

1-2=-97/64, 2-3=-208/96

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,

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

Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 39 lb uplift at joint

or consult qualified building designer as per ANSI/TPI 1.

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

3) Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc.

chord and any other members.

1 and 61 lb uplift at joint 3.

Structural wood sheathing directly applied or 6-9-8 oc purlins, except end verticals.

1=267/6-8-14, 3=267/6-8-14

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 1=-39 (LC 8), 3=-61 (LC 8)

(lb) - Maximum Compression/Maximum

6-8-14

Loading	(psf) 25.0	Spacing Plate Grip DOI	2-0-0 1 15	CSI TC	0 70	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144	
TCDL	10.0	Lumber DOL Rep Stress Incr	1.15 YES	BC	0.38	Vert(TL)	n/a	- 3	n/a n/a	999 n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	110112(112)	0.00		11/4	n/a	Weight: 17 lb	FT = 10%	
LUMBER TOP CHORD	2x4 SPF No.2		 This truss is Internationa 	designed in ac	cordance w	ith the 2018 R502.11.1 a	ind						

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V6	Valley	1	1	Job Reference (optional)	149888496

3-11-5

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 II

Page: 1





7-15	
Ę	

Scale -	1.10.7
ocale -	1.13.1

Scale = 1:19.7											-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		8) This truss is Internationa R802.10.2 ; LOAD CASE(S	s designed in ac Il Residential Co and referenced) Standard	cordance w ode sections standard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	and					
TOP CHORD	Structural wood she 3-11-14 oc purlins,	athing directly appli except end verticals	ed or S.									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C									
REACTIONS	(lb/size) 1=141/3-	11-5 3=141/3-11-5										

3-11-5

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) - Max	imum Compression/Maximum

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

NOTES

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

Tension

- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V7	Valley	1	1	Job Reference (optional)	149888497

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.4

						-								
Loading TCLL (roof)	(ps 25	sf) .0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.45	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	0.27	Vert(TL)	n/a	-	n/a	999		
BCDI	10	.0 "	Code	IPC201	8/TPI2014	WB Matrix-S	0.11	HOFIZ(IL)	0.00	5	n/a	n/a	Weight: 44 lb	FT - 10%
	10	.0	Code	11(0201	0/11/2014	Watth-0							Weight. 44 lb	11 = 1078
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood 6-0-0 oc purlins Rigid ceiling dir	l shea s, exc ectly	athing directly applie cept end verticals. applied or 10-0-0 oc	6) 7) ed or 8)	 * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 5, 86 lb upliff This truss is International R802.10.2 a 	has been designed in chord in all area by 2-00-00 wide wi by other members, hanical connection e capable of withst t at joint 6 and 145 designed in accor Residential Code nd referenced star	d for a liv is where ill fit betw , with BC n (by oth tanding 3 5 lb uplift dance w sections ndard AN	e load of 20.0 a rectangle veen the botto DL = 10.0psf ers) of truss to 4 lb uplift at ju at joint 7. ith the 2018 R502.11.1 a ISI/TPI 1.	Opsf om o oint nd					
REACTIONS	bracing. (Ib/size) 1=22 6=32 Max Horiz 1=25 Max Uplift 1=25 (LC 8 Max Grav 1=24 6=37	1/14- 6/14- 3 (LC 4 (LC 3) 8 (LC 1 (LC	8-2, 5=154/14-8-2, 8-2, 7=547/14-8-2 5), 6=-86 (LC 8), 7= 5 (16), 5=185 (LC 2), 2 2), 7=557 (LC 2)	Lo =-145	OAD CASE(S)	Standard								
FORCES	(lb) - Maximum Tension	Com	pression/Maximum											
TOP CHORD	1-2=-200/88, 2- 4-5=-118/46	3=-1	55/37, 3-4=-123/49,											
BOT CHORD WEBS	1-7=-82/62, 6-7 3-6=-260/123, 2	=-82/ 2-7=-4	/62, 5-6=-82/62 410/207											
NOTES														m
 Wind: AS Vasd=91r II; Exp C; cantilever right expo Truss des only. For see Stano 	CE 7-16; Vult=115 mph; TCDL=6.0ps Enclosed; MWFR left and right exposed; Lumber DOL signed for wind loa studs exposed to ard Industry Gab	imph f; BCl S (en osed =1.60 ds in wind e End	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and D plate grip DOL=1.6 the plane of the trus (normal to the face) 1 Details as applicat	Cat. le; d 60 ss ,								*	STATE OF I	MISSOLR TM. HER
or consult 3) Gable red	t qualified building	desig	ner as per ANSI/TP n chord bearing.	911.							4		A NUM	service

Gable requires continuous botton
 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.

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 **ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



PE-2001018807

SIONAL E

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V8	Valley	1	1	Job Reference (optional)	149888498

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:56 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



11-10-8

Scale = 1:36.5	5	F											
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 ⁷	18/TPI2014	CSI TC BC WB Matrix-S	0.19 0.11 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 34 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 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 1=109/11 	athing directly applie cept end verticals. applied or 10-0-0 or -10-8. 5=142/11-10-	6 7 ed or 8 c 8. L	 * This truss on the botto 3-06-00 tall chord and a Provide mec bearing platu 5, 104 lb upl This truss is Internationa R802.10.2 a OAD CASE(S) 	has been desig m chord in all a by 2-00-00 wide ny other memb chanical connect e capable of wit lift at joint 6 and designed in ac I Residential Cc nd referenced s Standard	ned for a liv reas where e will fit betw ers. tition (by oth thstanding 2 d 93 lb uplift cordance w ode sections standard AN	e load of 20.0 a rectangle veen the botto ers) of truss t 9 lb uplift at j at joint 7. tith the 2018 R 502.1.1.1 a ISI/TPI 1.	Dpsf om oont ond					
NEACTION O	6=395/11 Max Horiz 1=202 (LC Max Uplift 5=-29 (LC (LC 8) Max Grav 1=121 (LC 6=395 (LC	10-6, 5=142/11 10- 10-8, 7=350/11-10- 2 5) 5 5), 6=-104 (LC 8), 7 C 16), 5=142 (LC 1), C 1), 7=350 (LC 1)	8 7=-93										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-166/48, 2-3=-1 4-5=-109/43	30/52, 3-4=-113/38,											
WEBS	3-6=-309/151, 2-7=-	/49, 5-6=-65/49 267/138											
NOTES 1) Wind: AS Vasd=911 II; Exp C; cantilever right expC 2) Truss des only. For see Stand or consul 3) Gable red 4) Gable st	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed ssed; Lumber DCL=1.6 signed for wind loads in studs exposed to wind dard Industry Gable En t qualified building desig quires continuous bottoo	(3-second gust) DL=6.0psf; h=25ft; (rvelope) exterior zor ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing.	Cat. ne; d 60 ss), ole, PI 1.							_		STATE OF J SCOT SEV	MISSOUR T M. ER BER 018807

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.

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



SSIONAL

E

January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V9	Valley	1	1	Job Reference (optional)	149888499

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Pa

%



9-0-14

Scale	= 1	1.29	2

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.26	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	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 25 lb	FT = 10
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2		7) 8)	Provide mec bearing plate 4 and 122 lb This truss is International R802.10.2 a	hanical connect capable of with uplift at joint 5. designed in acc Residential Coo nd referenced si	ion (by oth Instanding 2 Iordance w de sections tandard AN	ers) of truss t 23 lb uplift at j ith the 2018 \$ R502.11.1 a VSI/TPI 1.	io oint and					
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exc	athing directly applic	ed or Lo	OAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C										
REACTIONS	(lb/size) 1=155/9-0 5=460/9-0 Max Horiz 1=151 (LC Max Uplift 4=-23 (LC)-14, 4=129/9-0-14,)-14 C 5) ; 5), 5=-122 (LC 8)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=-117/64, 2-3=-10 1-5=-48/37, 4-5=-48/ 2-5=-350/173	03/27, 3-4=-101/42 /37											

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.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V10	Valley	1	1	Job Reference (optional)	149888500

6-3-5

6-3-5

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2x4 🚽

2x4 II

Scale	- 1	1.23 5
Scale	- 1	1.23.3

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	0.58	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 10%
			8) This truss is	designed in acc	ordance wi	th the 2018						
TOP CHORD	2x4 SPF No 2		Internationa	Residential Co	de sections	R502.11.1 a	nd					
BOT CHORD	2x4 SPF No 2		R802.10.2 a	and referenced s	tandard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S)	Standard								
BRACING				Otaridara								
TOP CHORD	Structural wood she	athing directly applie	ed or									
	6-3-14 oc purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	с									
	bracing.											
REACTIONS	(lb/size) 1=246/6-3	3-5, 3=246/6-3-5										
	Max Horiz 1=100 (LC	C 5)										
	Max Uplift 1=-36 (LC	3), 3=-56 (LC 8)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=-89/59, 2-3=-19	1/89										
BOT CHORD	1-3=-32/25											
NOTES												
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.									
II; Exp C; I	Enclosed; MWFRS (er	velope) exterior zor	ne;									
cantilever	left and right exposed	; end vertical left an	d									
right expos	sed; Lumber DOL=1.6	0 plate grip DOL=1.	60									
I russ desi	gned for wind loads in	the plane of the tru	SS									
only. For	studs exposed to wind	(normal to the face), hla								000	TOP
see Stand	aru muusiry Gable En gualified building dooir										8 OF M	Aleally
3) Cable reg	ures continuous botto	n chord bearing	-11.							- 1	FIE	10°0
J Gable lequ		in chora bearing.								6		

- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 36 lb uplift at joint 1 and 56 lb uplift at joint 3.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V11	Valley	1	1	Job Reference (optional)	l49888501

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:25:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 🛛

Page: 1





3-5-11

-5-10

Scale	=	1:19

3-5-11	

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%
LUMBER			8) This truss is	s designed in ac	cordance w	ith the 2018		-				

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 1=120/3-5-11, 3=120/3-5-11 Max Horiz 1=49 (LC 5)

Max Uplift 1=-17 (LC 8), 3=-27 (LC 8) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-44/29, 2-3=-93/43 BOT CHORD 1-3=-16/12

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 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 17 lb uplift at joint 1 and 27 lb uplift at joint 3.

OF MISS TF. SCOTT M. SEVIER NUMBER PE-200101880 0 SSIONAL F January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V12	Valley	1	1	Job Reference (optional)	149888502

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.5

L oading 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	0.17 0.10 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF I 2x4 SPF I 2x3 SPF I Structural 6-0-0 oc p Rigid ceili bracing. (Ib/size) Max Horiz Max Uplift Max Grav	No.2 No.2 No.2 I wood sheat purlins. ing directly 1=85/13-9 6=340/13 1=97 (LC 1=-11 (LC 8=-126 (Li 1=94 (LC (LC 16), 7 15)	athing directly applie applied or 10-0-0 oc 9-0, 5=85/13-9-0, 9-0, 7=298/13-9-0, 9-0 5) 9), 6=-125 (LC 9), C 8) 16), 5=85 (LC 1), 6= =298 (LC 1), 8=353	6 7 9 9 • • • • • • • • • • • • •	 This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide meci bearing plate 1,126 lb upli This truss is International R802.10.2 ar OAD CASE(S) 	is been designed f ad nonconcurrent v has been designed in chord in all area: by 2-00-00 wide wi by other members. hanical connectior e capable of withst ft at joint 8 and 12 designed in accord Residential Code nd referenced star Standard	or a 10.0 with any I for a liv s where II fit betv n (by oth anding 1 5 lb uplit dance w sections ndard AN	D psf bottom other live loa e load of 20.1 a rectangle veen the bottivers) of truss f 1 lb uplift at j ft at joint 6. ith the 2018 R502.11.1 <i>a</i> ISI/TPI 1.	ids. Opsf om to joint					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHORD	1-2=-104/ 4-5=-77/3	/74, 2-3=-12 87	28/93, 3-4=-124/73,											
BOT CHORD	1-8=-22/6 5-6=-22/6	3, 7-8=-22/ 3	63, 6-7=-22/63,											
WEBS	3-7=-214/	/28, 2-8=-2	82/167, 4-6=-282/16	7									OF	ALL
 Unbalance this design Wind: ASC Vasd=91n II; Exp C; 	ed roof live l n. CE 7-16; Vu nph; TCDL= Enclosed; M	loads have It=115mph 6.0psf; BC IWFRS (en	been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon	Cat. le;									STATE SCOTT	F M. ER

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face),

- see Standard Industry Gable End Details as applicable,
- or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.

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





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V13	Valley	1	1	Job Reference (optional)	149888503

5-5-6

5-5-6

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:57 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

10-4-12 4-11-7 0-5-15



10-10-11

Scale = 1:30.9

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.34	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		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 28 lb	FT = 10%
LUMBER			8)	Provide mec	hanical connectio	n (by oth	ers) of truss t	0					
TOP CHORD	2x4 SPF No.2		,	bearing plate	e capable of withs	tanding 4	3 lb uplift at j	oint					
BOT CHORD	2x4 SPF No.2			1, 53 lb uplift	at joint 3 and 21	lb uplift a	t joint 4.						
OTHERS	2x3 SPF No.2		9)	This truss is	designed in accor	rdance w	ith the 2018						
BRACING				International	Residential Code	sections	R502.11.1 a	ind					
TOP CHORD	Structural wood shea	athing directly applie	ed or	R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.						
	6-0-0 oc purlins.	• • • •	LO	DAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	2										
	bracing.												
REACTIONS	(lb/size) 1=218/10- 4=452/10-	-10-11, 3=218/10-10 -10-11)-11,										
	Max Horiz 1=75 (LC	5)											
	Max Uplift 1=-43 (LC	(LC 9), 4	=-21										
	(LC 8)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
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													
1) Unbalance	d roof live loads have	been considered for											
this design													
2) Wind: ASC	E 7-16: Vult=115mph	(3-second gust)											
_,	- · · · · · · · · · · · · · · · · · · ·	(0 0000 gubi)											

- Wind: ASCE 7-16; Vull=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
- Inuss 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.
 Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.





Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V14	Valley	1	1	Job Reference (optional)	149888504

4-0-3

Wheeler Lumber, Waverly, KS - 66871,

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:58 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-6-8



Page: 1





8-0-7

Scale = 1:26.3													
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	0.23	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 No.2		8) Provide me bearing pla	chanical connect te capable of wit	tion (by oth	ers) of truss t 9 lb uplift at j	to joint						

	284 325 1	N0.Z
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	(Ib) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=-97/50, 2-3=-93/37
BOT CHORD	1-4=-10/44, 3-4=-10/44
WEBS	2-4=-202/52

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.
- 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.

- 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



1



Job	Truss	Truss Type	Qty	Ply	Lot 122 MN	
B220018	V15	Valley	1	1	Job Reference (optional)	149888505

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:25:58 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-2-2



3x4 🍬

3x4 💊

Page: 1

Scale = 1:22.7	
----------------	--

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

0-7-1

0-10-12

Loading	(psf)	Spacing	2-0-0	CSI	0.06	DEFL	in n/o	(loc)	l/defl	L/d	PLATES	GRIP
	20.0	Lumber DOL	1.15		0.00	Vert(LL)	n/a	-	n/a	999	101120	137/144
	10.0	Ron Stross Incr	VES		0.14	Horiz(TL)	0.00	-	n/a	999 n/o		
	10.0	Codo		Motrix P	0.00	TION2(TL)	0.00	4	11/a	ıı/a	Woight: 11 lb	ET _ 10%
BCDL	10.0	Coue	IK02010/1F12014	IVIdulix-IX							weight. This	FT = 1076
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-3-0 oc purlins, exo 2-0-0 oc purlins: 2-3 Rigid ceiling directly bracing. (Ib/size) 1=188/5-2 Max Horiz 1=-16 (LC Max Uplift 1=-13 (LC	athing directly applie ept applied or 10-0-0 oc 2-2, 4=188/5-2-2 : 4) : 5), 4=-13 (LC 4)	9) Provide m bearing pl 1 and 13 l 10) This truss ad or 11) Graphical or the orie bottom ch LOAD CASE(echanical connecti ate capable of with b uplift at joint 4. is designed in accu- nal Residential Cod e and referenced st purlin representation thation of the purlin ord. S) Standard	on (by oth standing 1 ordance wi le sections andard AN on does no n along the	ers) of truss t 3 lb uplift at j th the 2018 R502.11.1 a SI/TPI 1. t depict the s top and/or	o oint Ind size					
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD BOT CHORD	1-2=-261/54, 2-3=-2 1-4=-44/221	21/43, 3-4=-261/54										
NOTES												
 Unbalance this design 	ed roof live loads have h.	been considered for	r									
2) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	Cat. le; d 50								A DE M	
 Truss desi only. For see Stand or consult 	gned for wind loads in studs exposed to wind ard Industry Gable En- qualified building desid	the plane of the trus (normal to the face) d Details as application oner as per ANSI/TP	ss , ple, Pl 1.								STATE SCOT	I M.
4) Provide ad) Provide adequate drainage to prevent water ponding.											
5) Gable requ) Gable requires continuous bottom chord bearing.									- 1 th		
 Gable stud 	Gable studs spaced at 4-0-0 oc.									Service		
) This trues has been designed for a 10.0 nsf bottom												

- 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.

SE. t all acing ng Component 16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-2001018807

January 27,2022

SSIONAL E

