



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

Re: B220017 Lot 121 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: I49887760 thru I49887814

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

Missouri COA: Engineering 001193



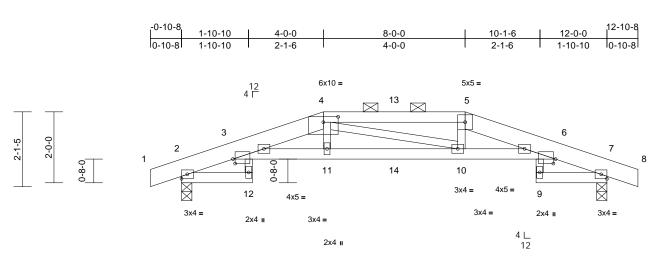
January 27,2022

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 design barameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	A1	Hip Girder	1	1	Job Reference (optional)	149887760

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:06:57 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



	2-0-0			10-	1-6	
	1-10-10 ²]]	4-1-4	7-10-12	10-0-0	12-0-0	
Γ	1-10-10 0-1-6	2-1-4	3-9-8	2-1-4 0-1	-6 1-10-10	1

Scale = 1:32.5

Plate Offsets (X, Y): [3:0-0-12,0-1-8], [4:0-5-0,0-1-13], [6:0-0-12,0-1-8]

	(X, Y): [3:0-0-12,0-1-8	j, [4:0-5-0,0-1-13], [6	5:0-0-12,0	-1-8]		-							
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.88	Vert(LL)	-0.14	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.90	Vert(CT)	-0.25	10-11	>562	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.10	Horz(CT)	0.19	7	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S	-	Wind(LL)	0.11	10-11	>999	240	Weight: 43 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x3 SPF No.2 Structural wood she 3-0-5 oc purlins, exc 2-0-0 oc purlins (3-2 Rigid ceiling directly bracing.	, ept -7 max.): 4-5. applied or 6-0-0 oc 8-8, 7=921/0-3-8 8)	7 ed or 8 g	 bearing plate joint 2 and 1) This truss is International R802.10.2 a) Graphical pu or the orient bottom chore) Hanger(s) o provided suf down and 44 up at 6-0-0, 	chanical connection e capable of withs 99 lb uplift at join designed in acco Residential Code nd referenced sta urlin representatio ation of the purlin d. r other connectior ficient to support 8 lb up at 4-0-0, a and 83 lb down a d 232 lb down at	standing 1 t 7. ordance w e sections andard AN on does no along the along the concentra and 83 lb and 48 lb	99 lb uplift a ith the 2018 is R502.11.1 a SI/TPI 1. ot depict the top and/or) shall be atted load(s) 8 down and 47 up at 8-0-0 c	t and size 33 lb 7 lb on					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		36 lb down a	at 6-0-0, and 232 ottom chord. The	lb down a	and 51 lb up	at					
TOP CHORD	1-2=0/1, 2-3=-415/10 4-5=-2633/482, 5-6= 7-8=0/1	, ,	5/99, 1	connection of 0) In the LOAD	device(s) is the re CASE(S) section are noted as front	sponsibili 1, loads a	ty of others. oplied to the						
BOT CHORD	2-12=-35/0, 3-11=-4 10-11=-434/2535, 6-	,	25/0	OAD CASE(S)	Standard	. ,							
WEBS	3-12=0/61, 6-9=0/61 4-10=-51/181, 5-10=	, 4-11=0/300,	1) Dead + Ro Plate Incre Uniform Lo): Lumbei	Increase=1.	.15,					
NOTES					=-70, 4-5=-70, 5-	8=-70 2-	12=-20 3-6=	-20					an
	ed roof live loads have	been considered for	r	7-9=-20	, ,	0- 70, 2	12-20,00-	20,				OF.	MISC
Vasd=91n II; Exp C; cantilever right expos 3) Provide ac 4) This truss	n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0 event water ponding r a 10.0 psf bottom	ne; d 60 J.	Vert: 4=-	ed Loads (lb) 41 (F), 5=-41 (F), F), 14=-36 (F)	, 11=-232	(F), 10=-232	2 (F),				STATE OF SCOT SEV	IER Berlen
5) * This true	a haa haan daalanad f	or a live load of 20 C	hof								11	~~	144

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.

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



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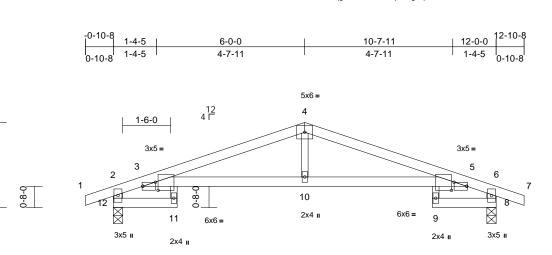
January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	A2	Roof Special	2	1	Job Reference (optional)	149887761

2-8-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:06:59 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:36.1

Plate Offsets (X X).	[3:0-5-12,0-1-9], [3:0-4-12,0-1-8], [5:0-5-12,0-1-9], [5:0-4-12,0-1-8]	
	$[5.0^{-5}, 12, 0^{-1}, 0], [5.0^{-4}, 12, 0^{-1}, 0], [5.0^{-5}, 12, 0^{-1}, 0], [5.0^{-4}, 12, 0^{-1}, 0]$	

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 IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.64 0.74 0.10	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.29 0.24 0.13	(loc) 9 9 8 11	l/defl >899 >484 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 35 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2	pt* 12-2,8-6:2x4 SP	Internationa R802.10.2	s designed in acco al Residential Cod and referenced sta) Standard	de sections	R502.11.1	and					
BRACING TOP CHORD	Structural wood she 3-11-4 oc purlins, e	xcept end verticals.	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc										
	•)									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-2=0/23, 2-3=-133/ 4-5=-1156/118, 5-6= 2-12=-609/121, 6-8=	-133/54, 6-7=0/23,										
BOT CHORD	11-12=-64/0, 3-10=- 8-9=-64/0		073,									
WEBS	3-11=0/76, 5-9=0/76	, 4-10=0/305										
 this design Wind: ASC Vasd=91m II; Exp C; I cantilever right exposision This truss chord live * This truss on the bott 3-06-00 ta chord and Provide model 	ed roof live loads have h. CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed for load nonconcurrent wi s has been designed f tom chord in all areas Il by 2-00-00 wide will any other members. echanical connection (ate capable of withstar	(3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto by others) of truss to	Cat. le; d 30 ds. psf m						-		NUM PE-2001	T M. HER 1018807

January 27,2022



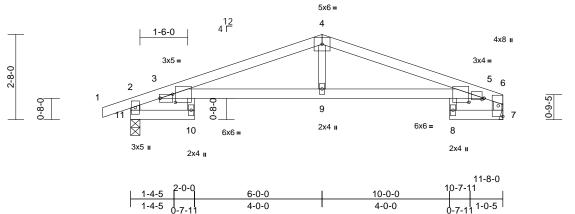
Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	A3	Roof Special	1	1	Job Reference (optional)	149887762

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:06:59 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1





Scale = 1:36.1

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

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	0.63	Vert(LL)	-0.15	10	>913	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.65	Vert(CT)	-0.28	10	>493	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.21	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R		Wind(LL)	0.13	10	>999	240	Weight: 33 lb	FT = 10%
LUMBER			6	Provide med	hanical connectio	on (by oth	ers) of truss	h					
TOP CHORD	2x4 SPF No.2		0,		capable of withs								
BOT CHORD					61 lb uplift at join		•						
WEBS	2x3 SPF No.2 *Exce	ept* 11-2,7-6:2x4 SP	F 7)		designed in acco								
	No.2	-			Residential Code			and					
BRACING					nd referenced sta	andard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she		ed or L	DAD CASE(S)	Standard								
	4-0-12 oc purlins, e												
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc											
	bracing.												
REACTIONS	. ,	echanical, 11=606/0	-3-8										
	Max Horiz 11=33 (LC Max Uplift 7=-61 (LC	,											
500050	1 (,, (,											
FORCES	(lb) - Maximum Com Tension	ipression/maximum											
TOP CHORD		47 3-4=-1097/118											
	4-5=-1102/119, 5-6=	, ,	/121.										
	6-7=-519/70	,,.	,										
BOT CHORD	10-11=-63/0, 3-9=-6	6/1016, 5-9=-66/101	16,										
	7-8=-48/0												
WEBS	3-10=0/76, 5-8=0/57	′, 4-9=0/292											
NOTES													
,	ed roof live loads have	been considered for	r									San	alle
this design		(0										STATE OF M	MIS.C.
	CE 7-16; Vult=115mph		2								1	750	-00 M
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er										B	ST SCOT	M NA
	left and right exposed										R	S SEVI	
											1	J SEVI	

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom

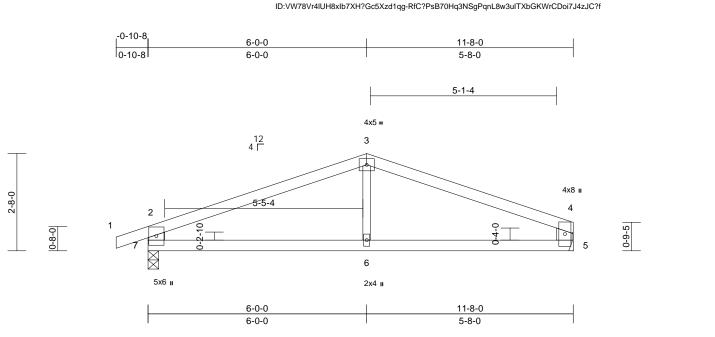
chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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

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Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	A4	Common	1	1	Job Reference (optional)	149887763



Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:06:59

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	0.46	Vert(LL)	-0.04	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	6-7	>999	240	Weight: 31 lb	FT = 10%

LUMBER	
TOP CHORD	2×4

Scale = 1:31.6

Р	CHORD	2x4 SPF N	02

2V4 CDE No 2

LOAD CASE(S) Standard

BOT CHORD	2x4 SPF I	N0.2
WEBS	2x6 SPF I	No.2 *Except* 6-3:2x3 SPF No.2
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	5=501/ Mechanical, 7=585/0-3-8
	Max Horiz	7=32 (LC 8)
	Max Uplift	5=-72 (LC 5), 7=-123 (LC 4)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·

TOP CHORD	1-2=0/24, 2-3=-726/98, 3-4=-720/98, 2-7=-518/159, 4-5=-422/103
BOT CHORD	6-7=-46/619, 5-6=-46/619
WEBS	3-6=0/212

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 7 and 72 lb uplift at joint 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISSO E SCOTT M. SEVIER PE-2001018807 C SSIONAL E January 27,2022

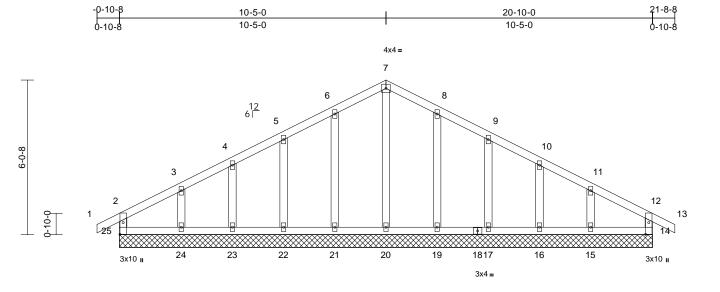
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Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	B1	Common Supported Gable	1	1	Job Reference (optional)	149887764

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:00 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



20-10-0

Scale = 1:45 Plate Offsets (X, Y): [14:0-5-9,0-1-8], [25:0-5-9,0-1-8]

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.07 0.03 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TP		0.00	11012(01)	0.00	14	1ı/a	n/a	Weight: 87 lb	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 wood sh 6-0-0 oc purlins, e Rigid ceiling direct bracing. (Ib/size) 14=179/ 19=188/ 23=177/ 25=179/ Max Uplift 14=-26 16=-45 (19=-54) 22=-57 (1 Max Grav 14=179) 16=177 19=190 21=190 21=190	LC 7) LC 8), 15=-84 (LC 9), LC 9), 17=-57 (LC 9), LC 9), 21=-54 (LC 8), LC 8), 23=-43 (LC 8), LC 8), 25=-38 (LC 9) (LC 1), 15=193 (LC 2), (LC 1), 17=179 (LC 1), (LC 22), 20=175 (LC (LC 21), 22=179 (LC 2), (LC 1), 24=193 (LC 2), (LC 1), 24=10, 24=	 NOTE: 1) Ur 1) Ur 1) Ur 1) Ur 1) Ur 1) Ur 10-0, thi 0-0, 2) Wi 0-0, 2) Wi 0-0, 12; 0-0, rig 3) Tr 0-0, rig <li0-0, li="" rig<=""> <li0-0, li="" rig<=""> 0-0, rig <</li0-0,></li0-0,>	21-22=-28/64 17-19=-28/64 14-15=-28/64 7-20=-135/0, 4-23=-139/71 9-17=-139/81 11-15=-147/1	, 20-21=-28/6 , 16-17=-28/6 6-21=-151/75 , 3-24=-147/1 , 10-16=-139 00 s have been sf; BCDL=6. RS (envelop posed ; end v DL=1.60 plate ads in the pl o wind (norm ble End Deta g designer a: neless otherwin s bottom chor from one fac vement (i.e. c 0-0 oc. ned for a 10.	4, 19-20=-28 4, 15-16=-28 9, 5-22=-139/ 04, 8-19=-15 (71, considered fc cond gust) 0psf; h=25ft; a) exterior zo vertical left ar grip DOL=1. ane of the tru al to the face ils as applica is per ANSI/T se indicated. d bearing. te or securely liagonal web) 0 psf bottom other live loa e load of 20.0	%64, %64, 81, 11/78, 11/78, or Cat. ne; nd 60 ss ss), ble, PI 1. ,	Ínte	ernationa 02.10.2	al Resi	erenced standar	MISSOLUTI
FORCES	(ib) - Maximum Compression/Maximum 3-06 Tension 3-06 2-25=-159/47, 1-2=0/32, 2-3=-81/63, 10) 3-4=-53/87, 4-5=-43/113, 5-6=-38/140, 6-7=-41/164, 7-8=-41/156, 8-9=-38/124, 9-10=-38/98, 10-11=-40/72, 11-12=-69/50, 12-13=0/32, 12-14=-159/37			6-00 tall by 2-00-00 wi ord and any other mem wide mechanical conne rring plate capable of v 26 lb uplift at joint 14, ff at joint 22, 43 lb upli 54 lb uplift at joint 19, ff at joint 16 and 84 lb	de will fit betw bers. ection (by oth vithstanding 3 54 lb uplift at ft at joint 23, 9 57 lb uplift at	veen the both ers) of truss f 88 lb uplift at j joint 21, 57 ll 91 lb uplift at joint 17, 45 ll	to joint o joint			A NEW	PE-2001	1 ENGLAS

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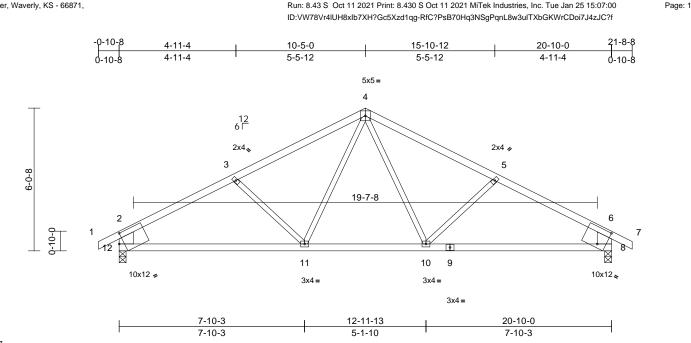


January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	B2	Common	5	1	Job Reference (optional)	149887765

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:00

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:48.7 Plate Offsets (X, Y): [8:0-4-1,0-8-2], [12:0-2-7,0-4-14]

Plate Olisets ((X, Y): [8:0-4-1,0-8-2],	[12:0-2-7,0-4-14]			-						-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.16	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.25	10-11	>955	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S		Wind(LL)	0.10	10-11	>999	240	Weight: 72 lb	FT = 10%
LUMBER			5) Provide	e mechanical connecti	ion (by oth	ers) of truss t	0					
TOP CHORD	2x4 SPF No.2		bearing	plate capable of with	standing 1	39 lb uplift at						
BOT CHORD	2x4 SPF No.2		joint 12	and 139 lb uplift at jo	int 8.							
VEBS	2x3 SPF No.2 *Exce	pt* 12-2,8-6:2x8 SP		uss is designed in acco								
	2400F 2.0E			tional Residential Cod			ind					
RACING			R802.1	0.2 and referenced st	andard AN	ISI/TPI 1.						
OP CHORD	Structural wood she except end verticals		ed, LOAD CAS	SE(S) Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	0									
REACTIONS	0	3-8, 12=993/0-3-8										
	Max Horiz 12=98 (L0											
	Max Uplift 8=-139 (L)									
FORCES	(lb) - Maximum Com	<i>,,</i>	,									
ONOLO	Tension	procoroni, maximum										
TOP CHORD	1-2=0/37, 2-3=-1311	/198. 3-4=-1087/165	5.									
	4-5=-1087/165, 5-6=	,	,									
	2-12=-891/179, 6-8=	-891/179	,									
BOT CHORD	11-12=-183/1061, 10	0-11=-26/812,										
	8-10=-107/1061											
WEBS	4-10=-54/296, 5-10=	-243/189, 4-11=-54/	/296,									
	3-11=-243/188											
NOTES											000	an
	ed roof live loads have	been considered for	r								OF	MISC
this desigr											4 SE	
	CE 7-16; Vult=115mph		2.4							A	STATE OF	New
	nph; TCDL=6.0psf; BC									H	SCOT	TM. YSY
	Enclosed; MWFRS (er		,							1	SEV	IER \ X
	left and right exposed									12 1		

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

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



NUMBE

PE-200101880

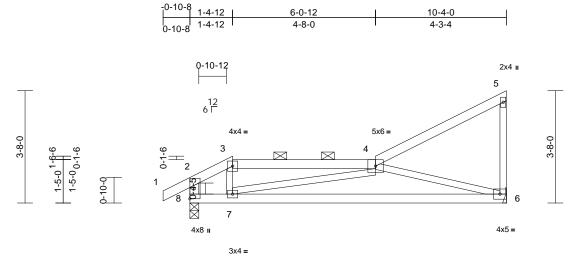
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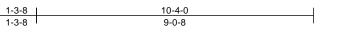
Job	Truss	Truss Type	Qty Ply		Lot 121 MN			
B220017	B3	Roof Special Girder	1	1	Job Reference (optional)	149887766		

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:00 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale	= '	1:37	.6	

		1			· · · · · ·								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.41	Vert(LL)	-0.18	6-7	>662	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.70	Vert(CT)	-0.38	6-7	>321	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.47	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 37 lb	FT = 10%
LUMBER			8)	Graphical pu	Irlin representation	does n	ot denict the	aziza					
TOP CHORD	2x4 SPF No.2		0)		ation of the purlin a			3126					
BOT CHORD				bottom chore		g							
WEBS	2x3 SPF No.2 *Exce	pt* 8-2:2x4 SPF No.	29)	Hanger(s) or	other connection c	levice(s) shall be						
BRACING			,	provided suf	ficient to support co	oncentra	ated load(s) 1	04					
TOP CHORD	Structural wood she	athing directly applie	d or		90 lb up at 1-4-12								
	6-0-0 oc purlins, ex				2 lb up at 1-4-12 or								
	2-0-0 oc purlins (6-0	-0 max.): 3-4.			tion of such connec	ction de	vice(s) is the						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	;	responsibility				<i></i>					
	bracing.		10		CASE(S) section,			face					
REACTIONS	(lb/size) 6=449/ M	echanical, 8=523/0-3	3-8		are noted as front (F	-) or ba	СК (D).						
	Max Horiz 8=145 (LC	C 5)	1)	AD CASE(S)	of Live (balanced):	Lumbo	Inorono 1	15					
	Max Uplift 6=-99 (LC	C 8), 8=-131 (LC 8)	1)	Plate Increa	```	Lumber	increase=1.	15,					
FORCES	(lb) - Maximum Com	pression/Maximum		Uniform Lo									
	Tension				=-70, 2-3=-70, 3-4=	-70 4-	5=-70 6-8=-2	20					
TOP CHORD	,				ed Loads (lb)	- 10, 1	0= 10, 0 0= 1	_0					
	4-5=-131/43, 5-6=-1	,		Vert: 7=6	()								
BOT CHORD	7-8=-79/514, 6-7=-2												
WEBS	3-7=0/361, 4-7=-453	3/255, 4-6=-930/310											
NOTES													
,	CE 7-16; Vult=115mph												
	nph; TCDL=6.0psf; BC												
II; Exp C;	Enclosed; MWFRS (er	e;											

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

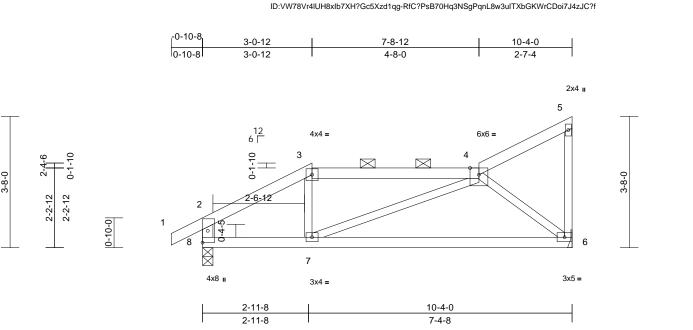
Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom

- chord live load nonconcurrent with any other live loads.
 * 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.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 6 and 131 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	B4	Roof Special	1	1	Job Reference (optional)	149887767



Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:00

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	0.38	Vert(LL)	-0.10	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.20	6-7	>595	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	6-7	>999	240	Weight: 37 lb	FT = 10%

LUMBER

Scale = 1:32.2

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

201 0110112	
WEBS	2x3 SPF No.2 *Except* 8-2:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	6=450/ Mechanical, 8=529/0-3-8
	Max Horiz	8=145 (LC 5)
	Max Uplift	6=-94 (LC 8), 8=-98 (LC 8)
FORCES	(lb) - Max	imum Compression/Maximum

	Tension
TOP CHORD	1-2=0/32, 2-3=-620/76, 3-4=-492/95,
	4-5=-99/35, 5-6=-59/33, 2-8=-475/93
BOT CHORD	7-8=-79/494, 6-7=-96/415
WEBS	3-7=0/173, 4-7=-9/168, 4-6=-516/170

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 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.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 6 and 98 lb uplift at joint 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.

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

> PE-2001018807 January 27,2022

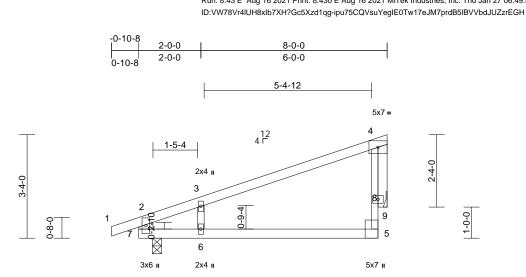
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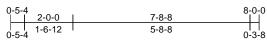


Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	C1	Monopitch	5	1	Job Reference (optional)	149887768

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. Thu Jan 27 06:49:50

3x4 =





Scale = 1:37.1													
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	0.54	Vert(LL)	-0.11	5-6	>821	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	5-6	>415	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	9	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	5-6	>790	240	Weight: 25 lb	FT = 10%	
LUMBER													
FOP CHORD	2x4 SPF No.2												
BOT CHORD	2x4 SPF No.2												
WEBS	2x3 SPF No.2 *Exce	pt* 7-2:2x6 SPF No	0.2										
OTHERS	2v4 SPE No 2												

	200 01 1 1	
OTHERS	2x4 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(lb/size)	7=429/0-3-8, 9=312/ Mechanical
	Max Horiz	7=100 (LC 5)
	Max Uplift	7=-94 (LC 4), 9=-79 (LC 8)
FORCES	(lb) - Max	. Comp./Max. Ten All forces 250
	(lb) or les	s except when shown.

- TOP CHORD 2-7=-259/37
- WEBS 4-9=-327/84

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 7 and 79 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



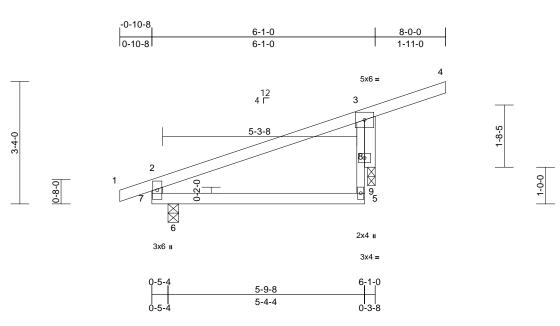
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Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	C2	Monopitch	3	1	Job Reference (optional)	149887769

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Scale = 1:31.4

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	0.36	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5-6	>999	240	Weight: 21 lb	FT = 10%
TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91n II; Exp C; 1 cantilever right expos 2) This truss chord live 3) * This trus	10.0 0.0* 10.0 2x4 SPF No.2 2x3 SPF No.2 *Exce 2x3 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 6=341/0-7 Max Horiz 6=114 (Lo Max Uplift 6=-73 (LO (lb) - Maximum Com Tension	Lumber DOL Rep Stress Incr Code	1.15 YES IRC2018/TPI2014 7) This truss is International R802.10.2 a 2 LOAD CASE(S) d or 99, 99, iat. e; 100	WB Matrix-R designed in accord Residential Code s nd referenced stan	0.00 lance wissections	Vert(CT) Horz(CT) Wind(LL) ith the 2018 R502.11.1 a	-0.04 -0.01 0.00	5-6 9	>999 n/a	n/a 240	STATE OF I	MISSOUR T.M.
3-06-00 ta chord and 4) Bearing at using ANS	Il by 2-00-00 wide will any other members. t joint(s) 9 considers pa SI/TPI 1 angle to grain	fit between the botton arallel to grain value formula. Building	m							Ŕ	SEVI	ter *
	should verify capacity of								0	K.	PE-2001	018807
	echanical connection ate at joint(s) 9.	(by others) of truss to								Ø	AL LAND	
6) Provide m	echanical connection										ESSIONA	LENG
bearing pla	ate capable of withsta	nding 73 lb uplift at jo	int								UNA	L

al connection (by others) of tr 6) bearing plate capable of withstanding 73 lb uplift at joint 6 and 129 lb uplift at joint 9.

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



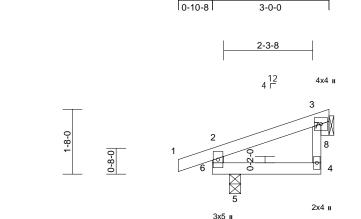
January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	C3	Monopitch	5	1	Job Reference (optional)	149887770

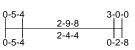
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Page: 1



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3-0-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.12	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LOWIDER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except* 6-2:2x4 SPF No.2
OTHERS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 5=248/0-3-8, 8=52/ Mechanical
	Max Horiz 5=54 (LC 5)
	Max Uplift 5=-87 (LC 4), 8=-16 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/23, 2-3=-44/7, 4-7=-9/32, 3-7=-9/32,
	2-6=-188/86
BOT CHORD	5-6=-4/40, 4-5=-16/12
WEBS	3-8=-63/22

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 5 and 16 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISSO TE SCOTT M. SEVIER NUMBER ROFF PE-2001018807 SSIONAL E January 27,2022



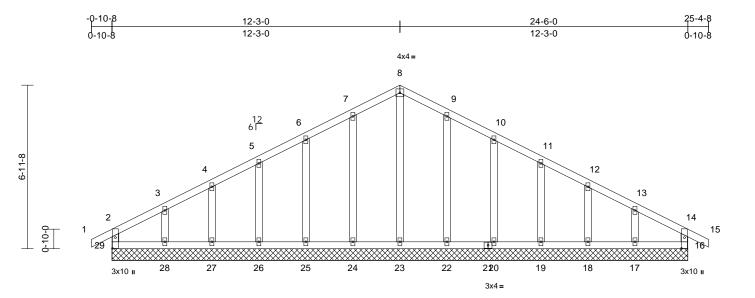
Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	D1	Common Supported Gable	1	1	Job Reference (optional)	149887771

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Page: 1

January 27,2022

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:49 Plate Offsets (X, Y): [16:0-5-9,0-1-8], [29:0-5-9,0-1-8]

Loading TCLL (roof) TCDL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.07 0.04	DEFL Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC20	018/TPI2014	WB Matrix-R	0.11	Horz(CT)	0.00	16	n/a	n/a	Weight: 109 lb	FT = 10%
BOT CHORD 2x4 WEBS 2x4 OTHERS 2x4 BRACING TOP CHORD Stru BOT CHORD Rig bra REACTIONS (lb/sid) Max Max Max	0 oc purlins, ex d ceiling directly cing. ze) 16=172/2 20=178/2 23=164/2 23=164/2 29=172/2 Horiz 29=107 (24=-54 (L 26=-57 (L 28=-98 (L Grav 16=172 (18=180 (20=178 (25=178 (27=180 (29=172 (LC 7) .C 8), 17=-89 (LC 9), .C 9), 19=-56 (LC 9), .C 9), 22=-53 (LC 9), .C 8), 25=-55 (LC 8), .C 8), 27=-42 (LC 8), .C 8), 29=-39 (LC 9) LC 1), 17=181 (LC 22 LC 1), 19=180 (LC 22 LC 1), 22=190 (LC 22 LC 1), 26=180 (LC 21 LC 1), 26=181 (LC 21 LC 1), 28=181 (LC 21	d or , , , , , , , , , , , , , , , , , ,	 BOT CHORD WEBS NOTES 1) Unbalanced this design. 2) Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose 3) Truss desig only. For st see Standa or consult q 4) All plates ar 5) Gable requi 6) Truss to be braced agai 7) Gable studs 8) This truss h chord live lc * This truss on the botto 	2-29=-152/46, 1-2= 3-4=-59/86, 4-5=-5 6-7=-35/165, 7-8=- 9-10=-35/144, 10- 12-13=-43/65, 13- 14-16=-152/33 28-29=-31/80, 24-2 22-23=-31/80, 24-2 22-23=-31/80, 24-2 22-23=-31/80, 20-2 18-19=-31/80, 17- 8-23=-140/79, 4-22 9-22=-150/77, 10-2 11-19=-140/79, 12 13-17=-138/100 d roof live loads hav E 7-16; Vult=115mp ch; TCDL=6.0psf; B nclosed; MWFRS (ight expose ed; Lumber DOL=1. ned for wind loads tuds exposed to wir rd Industry Gable E ualified building de: re 2x4 MT20 unless res continuous bott fully sheathed from inst lateral moveme is spaced at 2-0-0 o as been designed f bad nonconcurrent to has been designed pad nonconcurrent to has been designed form thas	0/113, § 39/188, 39/188, 11=-35/' 14=-76/5 28=-31/8 25=-31/8 22=-31/8 8=-31/8 8=-31/8 8=-31/8 72-140/7 20=-138 -18=-14 e been th (3-sec CDL=6. envelopp d; end v 60 plate in the pl d (norm nd Deta signer a otherwi om choir one fac nt (i.e. c) or a 10. with any s where	5-6=-38/138, 8-9=-39/180, 17, 11-12=-33 50, 14-15=0/32 30, 26-27=-31/ 30, 26-27=-31/ 30, 23-24=-31/ 30, 16-17=-31/ 30, 16-17=-31/ 30, 16-17=-31/ 30, 16-17=-31/ 30, 16-17=-31/ 30, 16-17=-31/ 1, 3-28=-138/ 7/9, 00/72, considered for cond gust) 00psf; h=25ft; C ane of the trus grip DOL=1.6 ane of the trus grip DOL=1.6 ane of the trus grip DOL=1.6 ane of the trus grip DOL=1.6 ane of the trus grip COL=1.6 ane of the trus gr	2, /80, /80, /80, /80, /80, /9, /105, /10,	bea 29, upli 27, upli 18 : 11) This Inte	rring pla 23 lb up ft at joir 98 lb up ft at joir and 89 l s truss i prnation 02.10.2	te capa lift at ji t 25, 5 b uplift at j t 20, 5 b uplift s desig and ref al Resi and ref) Sta	able of withstandii oint 16, 54 lb uplif 7 lb uplift at joint 1 6 lb uplift at joint 1 6 lb uplift at joint 1 7 at joint 17. Ined in accordanc dential Code sect rerenced standard ndard	AISSOLUTION

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	D2	Common	7	1	Job Reference (optional)	149887772

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:02 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 0-10-8 25-4-8 0-10-8 5-9-12 12-3-0 18-8-4 24-6-0 5-9-12 6-5-4 6-5-4 5-9-12 5x6= 4 12 6Γ 2x4 📢 2x4 🏿 3 5 6-11-8 23-3-8 -10-0 T. Ř 11 13 14 10 9 10x12 🞜 10x12 👟 3x4= 3x4= 3x4 =

	7-4-7	17-1-9	24-6-0	1
	7-4-7	9-9-2	7-4-7	
Scale = 1:53				

Plate Offsets (X, Y): [8:0-4-1,0-8-2], [12:0-2-7,0-4-14]

	, , , , , , , , , , , ,	1			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	0.79	Vert(LL)	-0.44	9-11	>650	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.59	Vert(CT)	-0.74	9-11	>387	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.21	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.13	9-11	>999	240	Weight: 84 lb	FT = 10%
LUMBER 5) Provide mechanical connection (by others) of truss to													
LUMBER 5) Provide mechanical connection (by others) of truss to TOP CHORD 2x4 SPF 2100F 1.8E bearing plate capable of withstanding 160 lb uplift at													
OF CHORD 2x4 SPF 2100F 1.8E joint 12 and 160 lb uplift at joint 8.													
NEBS													
BRACING	2/0 011 110.2 2/00	pt 12 2,0 0.2x0 01	200 -,		Residential Code			and					
TOP CHORD													
I OF CHORD	OP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals. LOAD CASE(S) Standard												
BOT CHORD													
	bracing.		0										
REACTIONS	0	-5-8, 12=1158/0-3-8	3										
	Max Horiz 12=-110 (,											
	Max Uplift 8=-160 (L	,	3)										
	Max Grav 8=1204 (L	<i>,,</i>	,										
FORCES	(lb) - Maximum Com		,										
IONOLO	Tension	pression/maximum											
TOP CHORD	1-2=0/37, 2-3=-1725	5/214, 3-4=-1571/25	3.										
	4-5=-1571/253, 5-6=												
	2-12=-1071/190, 6-8	,	,										
BOT CHORD	11-12=-207/1440, 9-	-11=-45/1018,											
	8-9=-114/1428												
WEBS	4-9=-110/613, 5-9=-	292/224, 4-11=-110	/613,										
	3-11=-292/224												
NOTES												000	ADD
1) Unbalance	d roof live loads have	been considered fo	r									FOF	MIG

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

MISSO Ut SCOTT M. SEVIER TIME OFFESSIONAL PE-200101880' E January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E1	GABLE	1	1	Job Reference (optional)	149887773

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:02 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

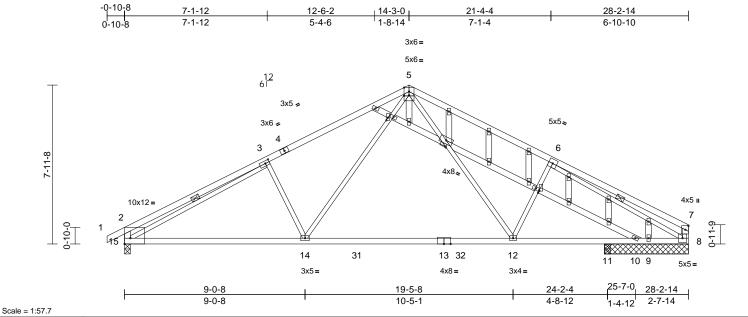


Plate Offsets (X, Y): [2:Edge,0-3-8], [3:0-2-8,0-1-8], [5:0-3-0,0-0-7], [17:0-1-9,0-1-0], [18:0-0-7,0-0-8], [19:0-1-1,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.36	12-14	>802	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.59	12-14	>487	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-14	>999	240	Weight: 133 lb	FT = 10%

L	U	M	в	E	F	R	

NOTES

LUMBER			
TOP CHORD	2x4 SPF I	No.2	
BOT CHORD	2x4 SPF 2 2100F 1.8	2400F 2.0E *Except* 13-8:2x4 SPF BE	2
WEBS		No.2 *Except* 15-2:2x4 SPF 2100F 17-18,16-17,18-19,19-10:2x4 SPF	
	No.2		
OTHERS	2x4 SPF I	No.2	3
BRACING			
TOP CHORD	Structura	wood sheathing directly applied or	
	2-2-0 oc p	ourlins, except end verticals.	
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc	Ę
WEBS	1 Row at	midpt 3-15, 6-8	
REACTIONS	(lb/size)	8=1215/4-2-6, 9=-21/4-2-6,	6
	(10=-70/4-2-6, 11=145/0-3-8,	
		15=1318/0-3-8	
	Max Horiz	15=127 (LC 7)	0
	Max Uplift	8=-192 (LC 9), 9=-26 (LC 15),	
		10=-70 (LC 1), 11=-4 (LC 9),	
		15=-184 (LC 8)	ç
	Max Grav	8=1259 (LC 2), 9=21 (LC 3), 10=52	
		(LC 14), 11=145 (LC 1), 15=1377	
		(LC 2)	
FORCES	· · ·	imum Compression/Maximum	
	Tension		
TOP CHORD		2-3=-759/232, 3-5=-1944/310,	
		6/319, 6-7=-451/168,	I
		4/210, 7-8=-368/146	
BOT CHORD		69/1773, 12-14=-73/1196, 78/1689, 10-11=-178/1689,	
		3/1689, 10-11=-178/1689, 3/1689, 8-9=-178/1689	
WEBS		1/270. 5-14=-140/836.	
VVED3	3-14=-41	1/2/0, 5-14=-140/030,	

5-12=-157/719, 6-12=-390/268,

3-15=-1372/67, 6-8=-1615/109

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) 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. 6)
- This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 9)

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 15, 192 lb uplift at joint 8, 70 lb uplift at joint 10, 26 Ib uplift at joint 9 and 4 lb uplift at joint 11.
- 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.

LOAD CASE(S) Standard



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E2	Common	1	1	Job Reference (optional)	149887774

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:02

Page: 1

	aveny, NO - 0007 1,									KWrCDoi7J4zJC?f	i age. i
	-0-10-8	7-1-12		14-3-0			1-4-4		1	28-2-14	
	0-10-8	7-1-12	I	7-1-4		7	'-1-4		I	6-10-10	I
					5x6=						
			10		5						
T			1 <u>2</u> 6		<u>_</u>						
			3x5 ≠	/		\sim					
						$\wedge \longrightarrow$					
			3x6 🛥				\sim		5x5 👟		
			3 4	~ //				\sim	6		
6			a tar								
7-11-8		/							Hand -		
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		× ×) A C	4x5 u
	2										7
0-10-0	1										-11-9 9-1
⊥ 5⊥	12		<u>14</u>					4			
	⊠ 10x12=		11	13		10 14	g	9			5x6=
	10/12 -	•	3x5	=		4x8=	3	x5=			
	1	9-0-8	1		19-5-8		1	I.		28-2-14	1
		9-0-8	l		10-5-1		1			8-9-6	
ale = 1:54.3	0. 50.0.0.0.0.0.0										
te Offsets (X, Y	(): [3:0-2-8,0-1-8]	[, [12:Edge,0-3-8]								_	
ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc) I/	defl L/c	PLATES	GRIP
LL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)			902 360		197/144
DL	10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.59 0.94	Vert(CT) Horz(CT)	-0.58 0.06		577 240 n/a n/a		
DL	10.0	Code	IRC2018/TPI2014	Matrix-S	0.04	Wind(LL)			999 240		FT = 10%
		•	4) * This true	s has been desig	nod for a liv	ro load of 20 (Doct		-		
MBER P CHORD 2>	4 SPF No.2			ss has been desig ttom chord in all a			ры				
T CHORD 2x	4 SPF 2100F 1.8		3-06-00 ta	all by 2-00-00 wide	e will fit betv	veen the botto					
BS 2x	<3 SPF No.2 *Exc 8E, 8-7:2x4 SPF I	ept* 12-2:2x4 SPF 2′		I any other membe jirder(s) for truss to							
	0E, 0-7.2X4 OFF 1	NU.2		nechanical connec			0				
	tructural wood she	eathing directly applie		late capable of wit		80 lb uplift at					
		cept end verticals.	7) This trues	nd 154 lb uplift at j is designed in ac		ith the 2018					
	racing.	y applied or 10-0-0 o	Internatio	nal Residential Co	de sections	s R502.11.1 a	ind				
BS 1	Row at midpt	3-12, 6-8		2 and referenced s	standard Al	NSI/TPI 1.					
ACTIONS (lb/		Mechanical,	LUAD CASE	(S) Standard							
Ma	12=1330 x Horiz 12=127 (
		LC 9), 12=-180 (LC 8	3)								
		LC 2), 12=1391 (LC	2)								
	b) - Maximum Cor ension	npression/Maximum									
		/229, 3-5=-1967/304	,								
5-	6=-1943/301, 6-7	=-476/131,									
	-12=-606/208, 7-8										
	1-12=-263/1793, 9 ·9=-161/1757	-11=-00/1220,									
BS 3-	-11=-410/270, 5-1									OF	A DIN
5-	-9=-141/785, 6-9=	-387/266, 3-12=-138	8/65,							ETEUTI	A Ser

NOTES

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

6-8=-1642/128

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





Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E3	Common	6	1	Job Reference (optional)	149887775

1)

2)

3)

4)

5)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:03 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

7-1-12 14-3-0 21-4-4 28-2-14 7-1-12 7-1-4 7-1-4 6-10-10 5x6= 4 _12 6Г 3x4 🚽 3 3x6 🞜 5x5 👟 2 5 7-11-8 4x5 🛛 8x8 = 6 1)-10-0 11 10 12 9 13 8 5x6= 3x5= 4x8= 3x5= 9-0-8 19-5-8 28-2-14 9-0-8 10-5-1 8-9-6 Scale = 1:54.3 Plate Offsets (X, Y): [1:Edge,0-2-8], [2:0-2-8,0-1-8] Loading (psf) Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 тс 0.71 Vert(LL) -0.37 8-10 >901 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.59 Vert(CT) -0.58 8-10 >575 240 BCLL 0.0* Rep Stress Incr YES WB 0.94 Horz(CT) 0.06 7 n/a n/a Weight: 103 lb BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 8-10 >999 240 FT = 10% LUMBER 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint TOP CHORD 2x4 SPF No.2 11 and 14 lb uplift at joint 7. BOT CHORD 2x4 SPF 2100F 1.8E This truss is designed in accordance with the 2018 2x3 SPF No.2 *Except* 11-1,7-6:2x4 SPF 7) WEBS International Residential Code sections R502.11.1 and No 2 R802.10.2 and referenced standard ANSI/TPI 1. BRACING LOAD CASE(S) Standard Structural wood sheathing directly applied or TOP CHORD 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 2-11, 5-7 REACTIONS (lb/size) 7=1258/ Mechanical, 11=1258/ Mechanical Max Horiz 11=101 (LC 7) Max Uplift 7=-14 (LC 9), 11=-15 (LC 8) Max Grav 7=1332 (LC 2), 11=1331 (LC 2) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-623/72, 2-4=-1977/92, 4-5=-1945/91, 5-6=-485/66, 1-11=-448/70, 6-7=-379/66 BOT CHORD 10-11=-51/1840, 8-10=0/1237, 7-8=0/1759 WEBS 2-10=-422/172, 4-10=-37/832, 4-8=-36/786, 5-8=-387/169, 2-11=-1541/0, 5-7=-1645/0 NOTES OF MISS Unbalanced roof live loads have been considered for this design Wind: ASCE 7-16; Vult=115mph (3-second gust) SCOTT M. Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. SEVIER 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 NUMBER This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. PE-200101880' 0 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle SSIONAL 3-06-00 tall by 2-00-00 wide will fit between the bottom F chord and any other members, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E4	Roof Special	1	1	Job Reference (optional)	149887776

TCDL

BCLL

BCDL

WEBS

WEBS

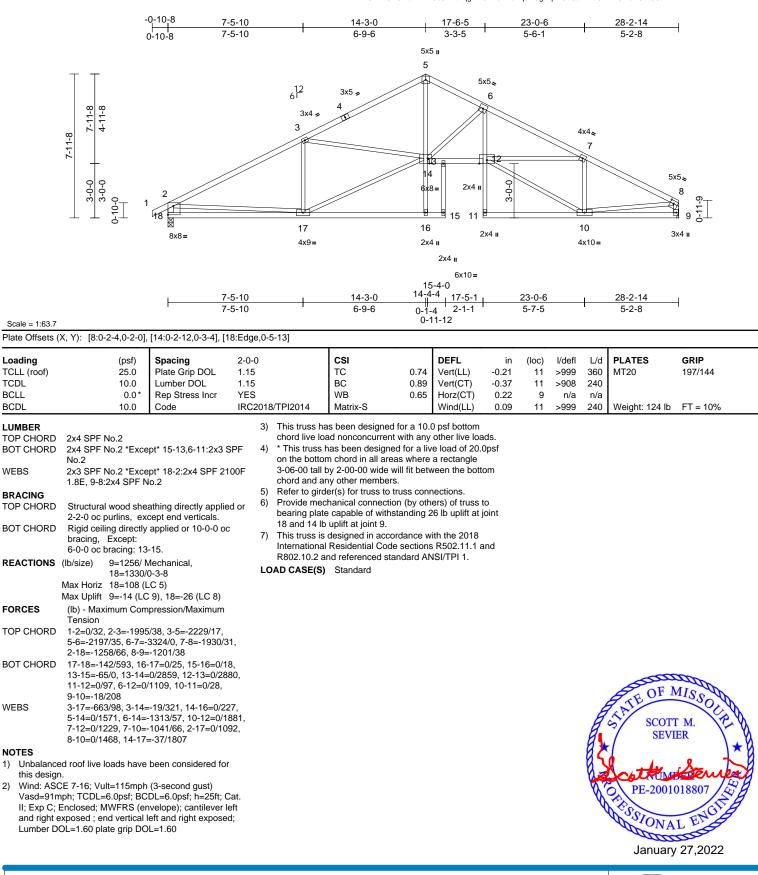
NOTES

1)

2)

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Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E5	Roof Special	1	1	Job Reference (optional)	149887777

1)

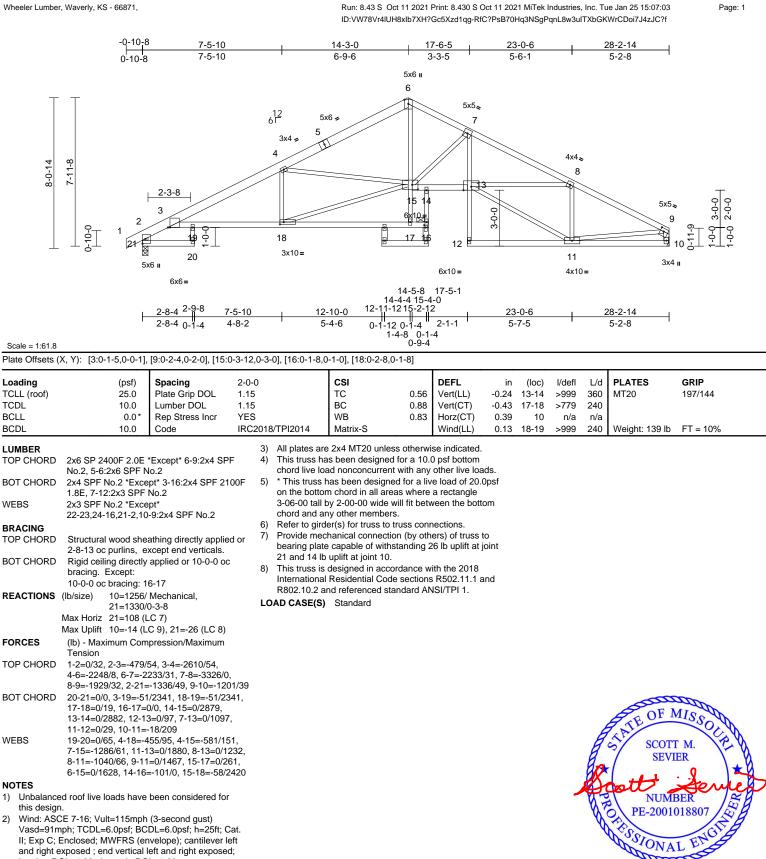
2)

Lumber DOL=1.60 plate grip DOL=1.60

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January 27,2022

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E6	Roof Special	1	1	Job Reference (optional)	149887778

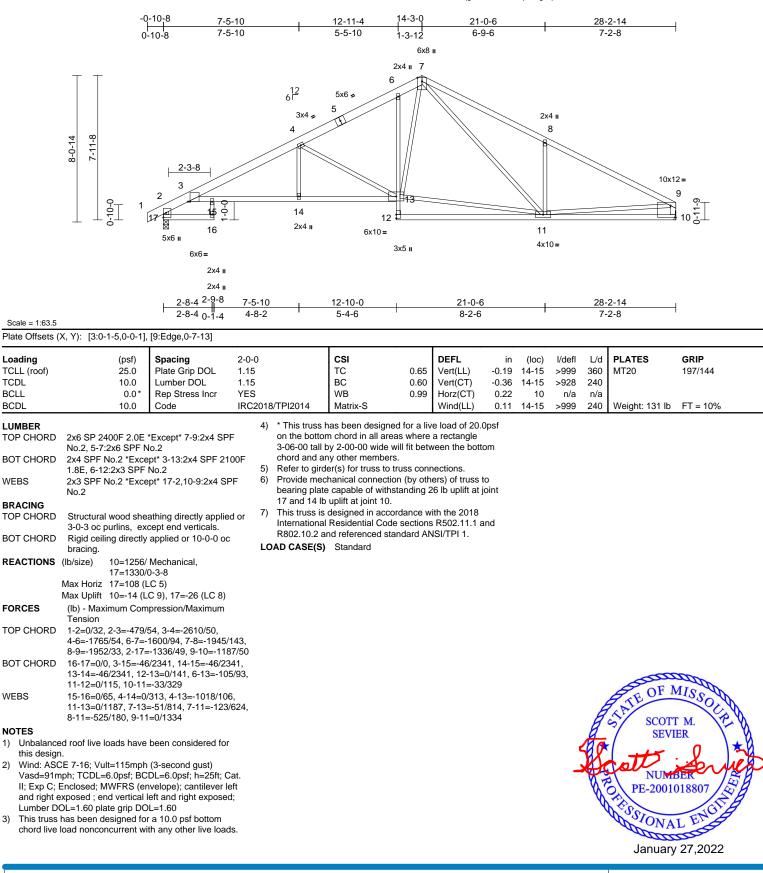
1)

2)

3)

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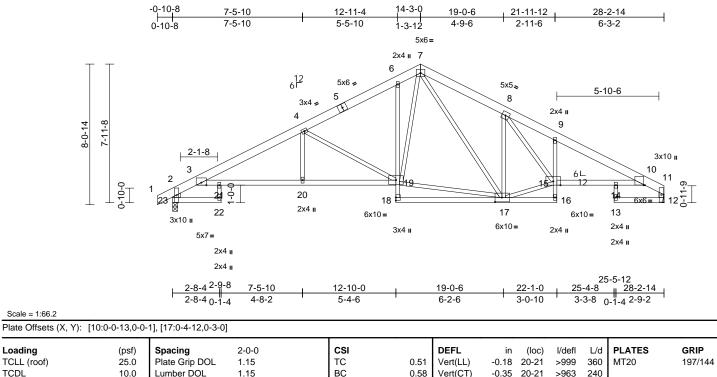




Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E7	Roof Special	2	1	Job Reference (optional)	149887779

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:04 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loaung		(psi)	Spacing	2-0-0		53		DEFL		(100)	i/uen	L/U	FLATES	GRIF	
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.51	Vert(LL)		20-21	>999	360	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.58	Vert(CT)		20-21	>963	240			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.95	Horz(CT)	0.36	12	n/a	n/a			
BCDL		10.0	Code	IRC2)18/TPI2014	Matrix-S		Wind(LL)	0.11	20-21	>999	240	Weight: 154 lb	FT = 10%	
LUMBER						7-16; Vult=115m									
TOP CHORD	2x6 SP 24 No.2	400F 2.0E	*Except* 5-7:2x6 SP	PF	II; Exp C; En	h; TCDL=6.0psf; iclosed; MWFRS	(envelop	e); cantilever	left						
BOT CHORD		2x4 SPF No.2 *Except* 3-19,15-10:2x4 SPFand right exposed; end vertical left and right exposed;2100F 1.8E, 6-18,16-9:2x3 SPF No.2Lumber DOL=1.60 plate grip DOL=1.60													
WEBS	2x3 SPF N 12-11:2x4		ept* 23-2:2x6 SPF No		3) All plates are 2x4 MT20 unless otherwise indicated.4) This truss has been designed for a 10.0 psf bottom										
BRACING					chord live loa	ad nonconcurrent	t with any	other live loa	ads.						
TOP CHORD	Structural	wood she	athing directly applie	ed or		nas been designe			0psf						
			xcept end verticals.	-		m chord in all are		0							
BOT CHORD			applied or 10-0-0 or	С		by 2-00-00 wide way other members		ween the bott	om						
	bracing,					er(s) for truss to		nections							
	6-0-0 oc b	•				hanical connection			to						
	10-0-0 oc	•				e capable of with									
REACTIONS	(lb/size)		Mechanical,			uplift at joint 12.		•	,						
	Maryllada	23=1333/			B) This truss is	designed in acco	ordance w	ith the 2018							
	Max Horiz		,			Residential Code			and						
			.C 9), 23=-27 (LC 8)		R802.10.2 a	nd referenced sta	andard Al	NSI/TPI 1.							
FORCES	(ID) - Maxi Tension		pression/Maximum		LOAD CASE(S)	Standard									
TOP CHORD	1-2=0/35,	2-3=-474/	58, 3-4=-2578/49,												
			1569/92, 7-8=-1728/	/119,											
	8-9=-2647												000	TOL	
	10-11=-44		3=-1346/50,										OF M	Alson	
BOT CHORD			4/2305, 20-21=-44/23	305									THE OF M	-0.0 M	
BOTCHORD			-19=0/113, 6-19=-46									A	NY accom	New Y	6
			-13/43, 15-16=0/17,	<i>"</i> 110,								U	SCOTT		<u>۸</u>
		,	15=0/2337,									8	SEVI	ER	۵
	10-14=0/2											W/		. 0 1 🗶	2
WEBS			0/61, 4-20=0/308,										att -	Some.	
	4-19=-984										-	11-	NUMI	BER A	a
			7=-910/119,	4000								127	PE-20010	1175	1
	/-17=-108	3/484, 15-1	17=0/1534, 17-19=0/	1229								N	PE-2001	128	6
NOTES												Y	1050	G'A	
,		oads have	been considered for	r									CSSIONA	LETA	
this desigr	1.												1000	The second	
														07 0000	

Scale = 1:66.2

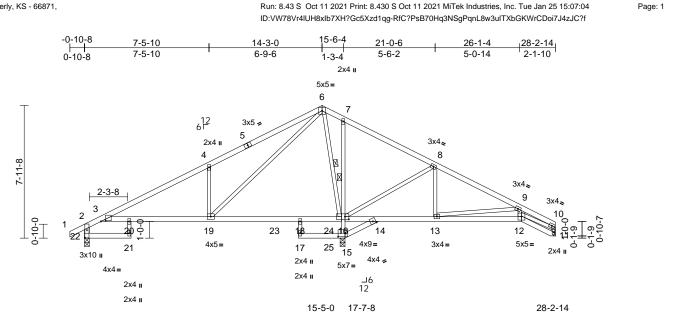
Loading

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 121 MN	
B220017	E8	Roof Special	1	1	Job Reference (optional)	149887780



15-7-8

0-2-8

2-0-0

21-0-6

3-4-14

	2-8-4 ₀₋₁₋₄ 4-8-2 5-4-6	0-1-4 (
Scale = 1:69.1		2-5-12
Plate Offsets (X, Y):	[3:0-3-6,0-0-8], [15:0-5-0,0-2-8], [16:0-2-12,0-2-0], [22:0-5-9,0-1-8]	

<u>2-8-4</u>2-9-8

7-5-10

4-8-2

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	0.64	Vert(LL)	-0.17	19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.29	19-20	>648	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.16	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	19-20	>999	240	Weight: 114 lb	FT = 10%

12-11-4

12-10-0

5-4-6

LUMBER			1)
TOP CHORD			0
BOT CHORD		-21,17-15:2x4 SPF	2)
	2100F 1.8E		
WEBS	2x3 SPF No.2 *Except* 22-	-2:2x4 SPF No.2	
BRACING			
TOP CHORD	Structural wood sheathing 6-0-0 oc purlins, except er		3)
BOT CHORD	Rigid ceiling directly applie	d or 6-0-0 oc	4)
	bracing, Except:		4)
	10-0-0 oc bracing: 21-22,1	5-17.	
WEBS	1 Row at midpt 7-15, 0	6-16	2
REACTIONS	(lb/size) 11=105/ Mechar	nical,	5)
	15=2086/0-3-8,	22=400/0-3-8	6)
	Max Horiz 22=126 (LC 5)		0, 1
	Max Uplift 11=-122 (LC 21) 22=-48 (LC 8)	, 15=-295 (LC 8),	j
	Max Grav 11=272 (LC 22), 22=470 (LC 23)	15=2304 (LC 2),	7)
FORCES	(lb) - Maximum Compressi	on/Maximum	
	Tension		LOA
TOP CHORD	1-2=0/32, 2-3=-210/112, 3-	-4=-381/136,	LOA
	4-6=-450/174, 6-7=-133/10	076,	
	7-8=-181/1139, 8-9=-226/6	58,	
	9-10=-698/420, 10-11=-26	0/132,	
	2-22=-472/91		
BOT CHORD	21-22=0/0, 3-20=-88/292,		
	18-19=-673/214, 16-18=-6	, , ,	
	14-15=-352/18, 14-16=-38		
	13-14=-566/255, 12-13=-3	62/583,	
	11-12=-24/42		
WEBS	20-21=-12/80, 17-18=0/34,		
	6-19=-337/1198, 15-16=-2		
	7-16=-332/156, 8-13=0/229		
	9-12=0/207, 10-12=-340/58	,	
	6-16=-1422/334, 8-16=-60	0/204	

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 This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 11, 48 lb uplift at joint 22 and 295 lb uplift at joint 15.

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.

AD CASE(S) Standard



27-11-6

1-8-14

0-3-8

26-2-8

5-2-2

NOTES



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	E9	Roof Special	1	1	Job Reference (optional)	149887781

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:05 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

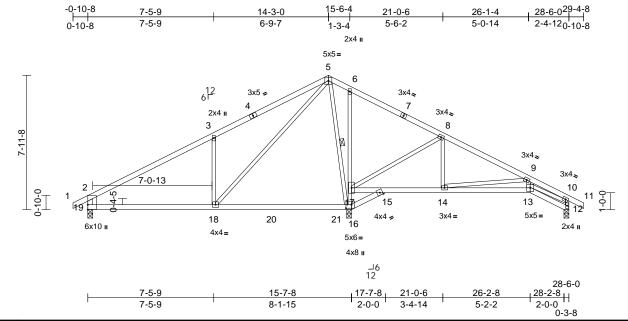


Plate Offsets (X, Y): [16:0-4-0,0-2-8]

Scale = 1:68.2

(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	0.58 0.56 0.71	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.32 0.02	16-18 12	l/defl >927 >580 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 112 lb	GRIP 197/144 FT = 10%
1.8E Structural wood she: 5-4-12 oc purlins, e: Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 12=462/0- 19=619/0- Max Horiz 19=122 (L Max Uplift 12=-141 (I 19=-161 (I Max Grav 12=488 (L 19=669 (L	athing directly applie ccept end verticals. applied or 6-0-0 oc 5-16 3-8, 16=1602/0-3-8, 3-8 C 7) LC 9), 16=-70 (LC 9 LC 8) C 22), 16=1764 (LC C 22),	100F 3) ed or 4) , 5) , 6) ; 2),	Vasd=91mph II; Exp C; En cantilever lef right exposed This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/7 designer sho Provide mec bearing plate joint 12, 161 16.	n; TCDL=6.0psf; closed; MWFRS t and right exposs d; Lumber DOL= s been designed ad nonconcurrent has been designed n chord in all are y 2-00-00 wide yo other members int(s) 12 conside TPI 1 angle to gra uld verify capaci hanical connection capable of withs Ib uplift at joint 1	BCDL=6.((envelope ed; end v 1.60 plate f or a 10.0 t with any ed for a liv as where will fit betv s, with BC rs parallel ain formula ty of bear on (by oth standing 1 9 and 70	Dpsf; $h=25ft$; e) exterior zc rertical left ar grip DOL=1 0 psf bottom other live loa e load of 20. a rectangle veen the bott DL = 10.0ps to grain valt a. Building ng surface. ers) of truss 41 lb uplift at joi	nne; .60 ads. Opsf rom rf. ue to t					
Tension R802.10.2 and referenced standard ANSI/TPI 1.												
5-6=0/454, 6-8=0/49 9-10=-1179/350, 10-	5, 8-9=-344/181, 11=0/31,	LO	AD CASE(S)	Standard							2000	and the
15-16=-468/119, 15-	17=-165/552,									Å	SCOT	M. YEY
5-16=-917/70, 8-17= 9-14=-741/232, 9-13 10-13=-273/987, 16- 6-17=-320/157	-598/177, 8-14=0/22 =-10/326, 17=-578/227,										cotto	18807 E
	25.0 10.0 0.0* 10.0 10.2	25.0 10.0	25.0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018 2) 2 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F 1.8E 3) 3) 5 Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. 4) 3) 5 Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. 1 Row at midpt 5-16 5) 1 Row at midpt 5-16 5) 1 Row at midpt 5-16 5) (lb/size) 12=462/0-3-8, 16=1602/0-3-8, 19=619/0-3-8 Max Horiz 19=122 (LC 7) Max Uplift 12=-141 (LC 9), 16=-70 (LC 9), 19=-669 (LC 21) 7) (lb) - Maximum Compression/Maximum Tension 1 -2=0/32, 2-3=-733/204, 3-5=-739/377, 5-6=0/454, 6-8=0/495, 8-9=-344/181, 9-10=-1179/350, 10-11=0/31, 10-12=-477/150, 2-19=-603/202 18-19=-197/554, 16-18=-226/124, 15-16==468/119, 15-17=-165/552, 14-15=-49/250, 13-14=-279/981, 12-13=-13/73 3-18=-533/307, 5-18=-275/1022, 5-16=-917/70, 8-17=-598/177, 8-14=0/228, 9-14=-741/232, 9-13=-10/326, 10-13=-273/987, 16-17=-578/227, 6-17=-320/157 ced roof live loads have been considered for	25.0 10.0Plate Grip DOL Lumber DOL 1.15 Rep Stress Incr VES Code1.15 RE2018/TPI20142 0.0^* 1.00CodeIRC2018/TPI20142 $2x4$ SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F 1.8E2)Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef right exposed 3-66-00 tall b chord and ar 5-4-12 oc purlins, except end verticals. 02)Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef right exposed 3-66-00 tall b chord and ar 5-66-00 tall b chord and ar 5)2)Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef right exposed 3-66-00 tall b chord and ar 5)2)Wind: ASCE Vasd=91mpt II; Exp C; En cantilever lef right exposed 3-06-00 tall b chord and ar 5)2)1Row at midpt 12=462/0-3-8, 19=619/0-3-85)Bearing at jo using ANSI/T designer sho 6)3-06-00 tall b chord and ar 5)5)Bearing 19=122 (LC 7) Max Uplift 12=-141 (LC 9), 16=-70 (LC 9), 19=-669 (LC 21)6)Provide med bearing plate joint 12, 161 16.101-2=0/32, 2-3=-733/204, 3-5=-739/377, 5-6=0/454, 6-8=0/495, 8-9=-344/181, 9-10=-1179/350, 10-11=0/31, 10-12=-477/150, 2-19=-603/2027)This truss is international R802.10.2 ar LOAD CASE(S)101-2=-0/32, 2-3=-733/204, 3-5=-739/377, 5-6=-917/70, 8-17=-598/177, 8-14=0/228, 9-14=-741/232, 9-13=-10/326, 10-13=-273/987, 16-17=-578/227, 6-17=-320/1571011101-2=-73/987, 16-17=-578/227, 6-17=-320/1572)1110101-17=-578/227, 6-17=-320/157 <tr <="" td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>25.0 Plate Grip DOL 1.15 TC 0.58 10.0 Lumber DOL 1.15 BC 0.56 0.0.* Rep Stress Incr YES WB 0.71 10.0 Code IRC2018/TPI2014 Matrix-S 2 Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 (Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2xx SPF No.2 *Except* 19-2:2x4 SPF 2100F (Vasd=91mph; TCL=6.0psf; BCDL=6.0 1.8E 2) Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2.x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F 1.8E 20 1.8E Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. 71 9 Rigid ceiling directly applied or 6-0-0 oc bracing. 1.15 11 19=619(LC 8) 12=462/0-3.8, 16=1602/0-3-8, 16=1602/0-3-8, 19=616(LC 2), 19=669(LC 21) 13 14 19=161 (LC 8) 19=-669(LC 21) 14 14 14 1.2=0/32, 2-3=-733/204, 3-5=-739/377, 5-6=0/454, 6-8=0/495, 8-9=-344/181, 9-10-179/350, 10-11=0/31, 10-12=-47/150, 2-19=-603/202 18</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>25.0 10.0 Plate Grip DOL Lumber DOL 1.15 1.15 Emp Stress Incr YES TC BC 0.58 0.71 Vert(LL) -0.20 0.20 16-16 16-18 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x4 SPF No.2<!--</td--><td>25.0 10.0 Plate Grip DOL Lumber DOL 1.15 TC 0.58 BC Vert(LL) -0.20 16.16 >927 0.0 Rep Stress incr YES WB 0.71 Horz(CT) 0.02 16.18 >929 0.0 Rep Stress incr Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 13.14 >999 0.2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 20 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 1.8E 2.9 Vind: ASCE 7-16; Vulle-115mph (3-second gust) Vasd-91 mpi, TDL=6, 0pt; BCDL=6, 0pt; h=25f; Cat. 1; Exp C; Enclosed; MWFRS (envelope) exterior zone; canlilever left and right exposed; end vertical left and right exposed; (LD) pst bottom 16 mononcurrent with any other live loads. 4 1.8E 2.0 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 4 4 16 mononcurrent with any other live loads. 4 1.8E 2.0 Code dust with second gust) 4 4 16 mononcurrent with any other live loads. 4 * This truss has been designed for a 10.0 pst bottom chord and any other members, with BCDL = 10.0 pst. 5 5 5 5</td><td>25.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1</td><td>25.0 10.0 Piate Grip DOL (mode) 1.15 1.15 TC 0.68 WB Vert(CT) Vert(CT) -0.20 -0.32 16-18 16-18 >227 360 16-18 Marzo 10.0 Code IRC2018/TPI2014 WB 0.71 Horz(CT) 0.02 12-16-18 >290 240 Weight: 112 lb 2x4 SPF No.2 2x4</td></td></tr>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25.0 Plate Grip DOL 1.15 TC 0.58 10.0 Lumber DOL 1.15 BC 0.56 0.0.* Rep Stress Incr YES WB 0.71 10.0 Code IRC2018/TPI2014 Matrix-S 2 Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 (Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2xx SPF No.2 *Except* 19-2:2x4 SPF 2100F (Vasd=91mph; TCL=6.0psf; BCDL=6.0 1.8E 2) Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2.x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F 1.8E 20 1.8E Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. 71 9 Rigid ceiling directly applied or 6-0-0 oc bracing. 1.15 11 19=619(LC 8) 12=462/0-3.8, 16=1602/0-3-8, 16=1602/0-3-8, 19=616(LC 2), 19=669(LC 21) 13 14 19=161 (LC 8) 19=-669(LC 21) 14 14 14 1.2=0/32, 2-3=-733/204, 3-5=-739/377, 5-6=0/454, 6-8=0/495, 8-9=-344/181, 9-10-179/350, 10-11=0/31, 10-12=-47/150, 2-19=-603/202 18	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25.0 10.0 Plate Grip DOL Lumber DOL 1.15 1.15 Emp Stress Incr YES TC BC 0.58 0.71 Vert(LL) -0.20 0.20 16-16 16-18 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x4 SPF No.2 </td <td>25.0 10.0 Plate Grip DOL Lumber DOL 1.15 TC 0.58 BC Vert(LL) -0.20 16.16 >927 0.0 Rep Stress incr YES WB 0.71 Horz(CT) 0.02 16.18 >929 0.0 Rep Stress incr Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 13.14 >999 0.2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 20 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 1.8E 2.9 Vind: ASCE 7-16; Vulle-115mph (3-second gust) Vasd-91 mpi, TDL=6, 0pt; BCDL=6, 0pt; h=25f; Cat. 1; Exp C; Enclosed; MWFRS (envelope) exterior zone; canlilever left and right exposed; end vertical left and right exposed; (LD) pst bottom 16 mononcurrent with any other live loads. 4 1.8E 2.0 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 4 4 16 mononcurrent with any other live loads. 4 1.8E 2.0 Code dust with second gust) 4 4 16 mononcurrent with any other live loads. 4 * This truss has been designed for a 10.0 pst bottom chord and any other members, with BCDL = 10.0 pst. 5 5 5 5</td> <td>25.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1</td> <td>25.0 10.0 Piate Grip DOL (mode) 1.15 1.15 TC 0.68 WB Vert(CT) Vert(CT) -0.20 -0.32 16-18 16-18 >227 360 16-18 Marzo 10.0 Code IRC2018/TPI2014 WB 0.71 Horz(CT) 0.02 12-16-18 >290 240 Weight: 112 lb 2x4 SPF No.2 2x4</td>	25.0 10.0 Plate Grip DOL Lumber DOL 1.15 TC 0.58 BC Vert(LL) -0.20 16.16 >927 0.0 Rep Stress incr YES WB 0.71 Horz(CT) 0.02 16.18 >929 0.0 Rep Stress incr Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 13.14 >999 0.2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 20 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 1.8E 2.9 Vind: ASCE 7-16; Vulle-115mph (3-second gust) Vasd-91 mpi, TDL=6, 0pt; BCDL=6, 0pt; h=25f; Cat. 1; Exp C; Enclosed; MWFRS (envelope) exterior zone; canlilever left and right exposed; end vertical left and right exposed; (LD) pst bottom 16 mononcurrent with any other live loads. 4 1.8E 2.0 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 4 4 16 mononcurrent with any other live loads. 4 1.8E 2.0 Code dust with second gust) 4 4 16 mononcurrent with any other live loads. 4 * This truss has been designed for a 10.0 pst bottom chord and any other members, with BCDL = 10.0 pst. 5 5 5 5	25.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	25.0 10.0 Piate Grip DOL (mode) 1.15 1.15 TC 0.68 WB Vert(CT) Vert(CT) -0.20 -0.32 16-18 16-18 >227 360 16-18 Marzo 10.0 Code IRC2018/TPI2014 WB 0.71 Horz(CT) 0.02 12-16-18 >290 240 Weight: 112 lb 2x4 SPF No.2 2x4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25.0 Plate Grip DOL 1.15 TC 0.58 10.0 Lumber DOL 1.15 BC 0.56 0.0.* Rep Stress Incr YES WB 0.71 10.0 Code IRC2018/TPI2014 Matrix-S 2 Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 (Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2xx SPF No.2 *Except* 19-2:2x4 SPF 2100F (Vasd=91mph; TCL=6.0psf; BCDL=6.0 1.8E 2) Wind: ASCE 7-16; Vult=115mph (3-sec Vasd=91mph; TCL=6.0psf; BCDL=6.0 2.x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2.x3 SPF No.2 *Except* 19-2:2x4 SPF 2100F 1.8E 20 1.8E Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. 71 9 Rigid ceiling directly applied or 6-0-0 oc bracing. 1.15 11 19=619(LC 8) 12=462/0-3.8, 16=1602/0-3-8, 16=1602/0-3-8, 19=616(LC 2), 19=669(LC 21) 13 14 19=161 (LC 8) 19=-669(LC 21) 14 14 14 1.2=0/32, 2-3=-733/204, 3-5=-739/377, 5-6=0/454, 6-8=0/495, 8-9=-344/181, 9-10-179/350, 10-11=0/31, 10-12=-47/150, 2-19=-603/202 18	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	25.0 10.0 Plate Grip DOL Lumber DOL 1.15 1.15 Emp Stress Incr YES TC BC 0.58 0.71 Vert(LL) -0.20 0.20 16-16 16-18 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x4 SPF No.2 </td <td>25.0 10.0 Plate Grip DOL Lumber DOL 1.15 TC 0.58 BC Vert(LL) -0.20 16.16 >927 0.0 Rep Stress incr YES WB 0.71 Horz(CT) 0.02 16.18 >929 0.0 Rep Stress incr Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 13.14 >999 0.2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 20 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 1.8E 2.9 Vind: ASCE 7-16; Vulle-115mph (3-second gust) Vasd-91 mpi, TDL=6, 0pt; BCDL=6, 0pt; h=25f; Cat. 1; Exp C; Enclosed; MWFRS (envelope) exterior zone; canlilever left and right exposed; end vertical left and right exposed; (LD) pst bottom 16 mononcurrent with any other live loads. 4 1.8E 2.0 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 4 4 16 mononcurrent with any other live loads. 4 1.8E 2.0 Code dust with second gust) 4 4 16 mononcurrent with any other live loads. 4 * This truss has been designed for a 10.0 pst bottom chord and any other members, with BCDL = 10.0 pst. 5 5 5 5</td> <td>25.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1</td> <td>25.0 10.0 Piate Grip DOL (mode) 1.15 1.15 TC 0.68 WB Vert(CT) Vert(CT) -0.20 -0.32 16-18 16-18 >227 360 16-18 Marzo 10.0 Code IRC2018/TPI2014 WB 0.71 Horz(CT) 0.02 12-16-18 >290 240 Weight: 112 lb 2x4 SPF No.2 2x4</td>	25.0 10.0 Plate Grip DOL Lumber DOL 1.15 TC 0.58 BC Vert(LL) -0.20 16.16 >927 0.0 Rep Stress incr YES WB 0.71 Horz(CT) 0.02 16.18 >929 0.0 Rep Stress incr Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 13.14 >999 0.2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 20 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 1.8E 2.9 Vind: ASCE 7-16; Vulle-115mph (3-second gust) Vasd-91 mpi, TDL=6, 0pt; BCDL=6, 0pt; h=25f; Cat. 1; Exp C; Enclosed; MWFRS (envelope) exterior zone; canlilever left and right exposed; end vertical left and right exposed; (LD) pst bottom 16 mononcurrent with any other live loads. 4 1.8E 2.0 Vind: ASCE 7-16; Vulle-115mph (3-second gust) 4 4 16 mononcurrent with any other live loads. 4 1.8E 2.0 Code dust with second gust) 4 4 16 mononcurrent with any other live loads. 4 * This truss has been designed for a 10.0 pst bottom chord and any other members, with BCDL = 10.0 pst. 5 5 5 5	25.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	25.0 10.0 Piate Grip DOL (mode) 1.15 1.15 TC 0.68 WB Vert(CT) Vert(CT) -0.20 -0.32 16-18 16-18 >227 360 16-18 Marzo 10.0 Code IRC2018/TPI2014 WB 0.71 Horz(CT) 0.02 12-16-18 >290 240 Weight: 112 lb 2x4 SPF No.2 2x4					

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 121 MN	
B220017	E10	GABLE	1	1	Job Reference (optional)	149887782

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:05 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

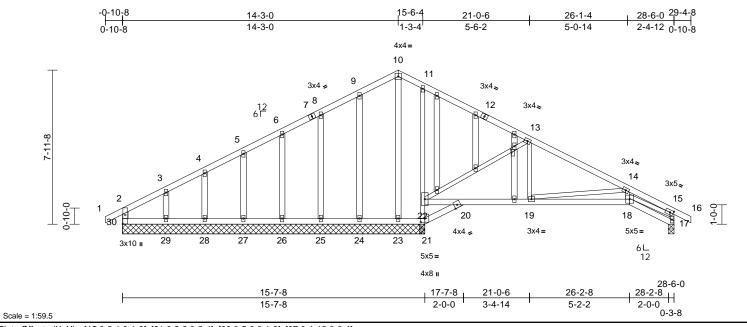


Plate Offsets (X, Y): [15:0-2-1,0-1-8], [21:0-2-8,0-2-4], [30:0-5-9,0-1-8], [37:0-1-12,0-0-4]

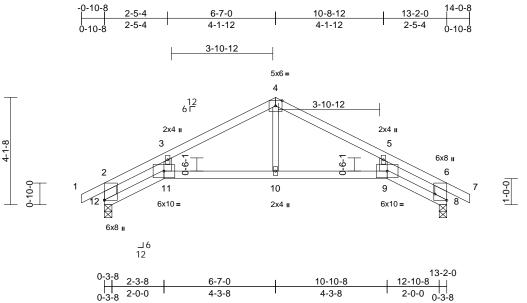
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.39	Vert(LL)	-0.05	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.39	Vert(CT)	-0.11	18-19	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.75	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code	IRC201	18/TPI2014	Matrix-S		Wind(LL)	0.05	18-19	>999	240	Weight: 142 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SPF No.2 2x3 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 5-2-15 oc purlins, e Rigid ceiling directly bracing, Except: 10-0-0 oc bracing: 1 (Ib/size) 17=510/0 23=280/1 25=177/1 27=187/1 29=288/1 Max Horiz 30=122 (I Max Uplift 17=-131 (26=-52 (L 28=-40 (L 30=-138 (Max Grav 17=510 (I 25=177 (I 27=187 (I	athing directly applie xcept end verticals. applied or 6-0-0 oc 9-20,18-19,17-18. 	b.2 d or V 3, N 3, 1 3, 1 2), 2 3), 3 2), 3 2), 3 2), 4 3, 4 3, 4 3, 4 3, 4 3, 4 3, 4 3, 4 3	VEBS IOTES) Unbalanced this design.) Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose) Truss design only. For st see Standar or consult q) All plates ar) Truss to be braced agai) Gable studs) This truss h chord live lo 3-06-00 tall chord and a) Bearing at jo using ANSI/	29-30=-230/120, 2 27-28=-230/120, 2 25-26=-230/120, 2 23-24=-230/120, 2 20-21=-311/139, 2 19-20=-28/304, 11 17-18=-11/71 21-22=-635/236, 1 3-22=-623/170, 1 4-19=-742/229, 1 5-18=-246/1042, 9 -24=-159/74, 8-2 5-27=-143/80, 4-2 1 roof live loads hat 5-716; Vult=115m th; TCDL=6.0psf; B th; TCDL=6.0psf; B th; TCDL=6.0ps	26-27=-2: 24-25=-2: 21-23=-2: 20-22=-1! 8-19=-25(11-22=-3: 13-19=0/2 14-18=-6/ 10-23=-2: 25=-137/8 8==132/7 ve been of ph (3-sec 3CDL=6.((envelope ed; end v 1.60 plate in the plate so therwi n one fac ext (i.e. do c. for a 10.(with any d for a liv s s parallel in formula	30/120, 30/121, 30/121, 58/588, J/1039, 45/173, 266, 244/0, 11, 6-26=-140 (0, 3-29=-195) considered for considered	9/109 or Cat. ne; nd .60 uss .9), uble, PI 1. /). ads. 0psf om	bea join 48 at ju and 11) Thi Inte	t 17, 13 t 17, 13 b uplift a pint 26, s 104 lb s truss is ernationa 02.10.2 a	te capa 3 lb upi 58 lb up 58 lb up 58 lb up plift a d Resic and ref and ref) Sta	able of withstandii lift at joint 30, 215 24, 58 lb uplift at plift at joint 27, 40 Jential Code sect erenced standard indard	ANSI/TPI 1.

January 27,2022



Job	Truss	Truss Type		Ply	Lot 121 MN				
B220017	G1	Roof Special	1	1	Job Reference (optional)	149887783			

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:06 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:44.3

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

-													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.71	Vert(LL)	-0.15	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.59	Vert(CT)	-0.27	9-10	>571	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.27	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-R		Wind(LL)	0.14	10-11	>999	240	Weight: 40 lb	FT = 10%
LUMBER			6)	Provide mech	nanical connectio	on (by oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2			bearing plate	capable of withs	standing 9	5 lb uplift at j	joint					
BOT CHORD	2x4 SPF No.2				uplift at joint 8.								
WEBS	2x6 SPF No.2 *Exce	pt* 10-4:2x3 SPF N			designed in acco								
	9-5,11-3:2x4 SPF N	o.2			Residential Code			and					
BRACING					d referenced sta	andard AN	ISI/TPI 1.						
TOP CHORD	Structural wood she	athing directly appli	ed or LOA	AD CASE(S)	Standard								
	4-4-14 oc purlins, e												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	С										
	bracing.												
REACTIONS	()	8-8, 12=649/0-3-8											
	Max Horiz 12=-73 (L	,											
	Max Uplift 8=-95 (LC	9), 12=-95 (LC 8)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	2-12=-833/86, 1-2=0	, , ,											
	3-4=-855/99, 4-5=-8		70,										
	6-7=0/35, 6-8=-833/												
BOT CHORD	11-12=-7/815, 10-11	=-29/761, 9-10=-29	/761,										
	8-9=-23/815												
WEBS	4-10=0/295, 5-9=0/2	30, 3-11=0/230											
NOTES													4 may
,	ed roof live loads have	been considered fo	or									and	TOP
this design		(0) (0)										OF OF	MISC
	CE 7-16; Vult=115mph		Cat								1	STATE OF	W.O.
	nph; TCDL=6.0psf; BC Enclosed; MWFRS (er										B	SI SCOT	N SX
	left and right exposed										R	S/ SCOI	
	sed; Lumber DOL=1.6										b.	SEV	
	has been designed for									1	-// *		· 4
7 1113 11033	nuo been designed to	a 10.0 p31 000000								•			

3) 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.

5) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

January 27,2022

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NUMBER

PE-200101880

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Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	G2	Common Supported Gable	1	1	Job Reference (optional)	149887784

Loading

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

FORCES

WEBS

NOTES

1)

LUMBER

TCLL (roof)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:06

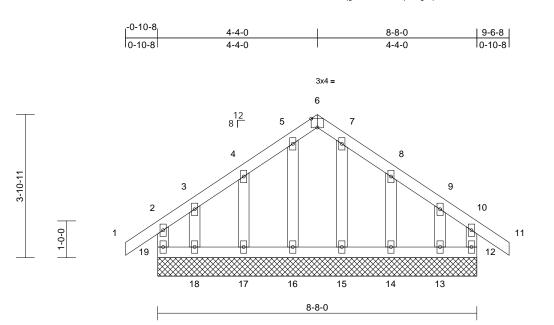
Page: 1

ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 6-7-0 13-2-0 14-0-8 0-10-8 6-7-0 0-10-8 6-7-0 4x4 = 5 12 6 Г 4 6 3 7 φ ø 2 8 0-10-0 16 1Ò 15 14 13 12 11 3x10 " 3x10 " 13-2-0 Scale = 1:33.2 Plate Offsets (X, Y): [10:0-5-9,0-1-8], [16:0-5-9,0-1-8] PLATES Spacing 2-0-0 CSI DEFL l/defl L/d GRIP (psf) in (loc) 25.0 Plate Grip DOL 1.15 тс 0.07 Vert(LL) n/a 999 MT20 197/144 n/a 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) n/a n/a 999 0.0* Rep Stress Incr YES WB 0.03 Horz(CT) 10 0.00 n/a n/a 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 49 lb FT = 10% 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. TOP CHORD 2x4 SPF No.2 II; Exp C; Enclosed; MWFRS (envelope) exterior zone; BOT CHORD 2x4 SPF No.2 cantilever left and right exposed ; end vertical left and 2x4 SPF No.2 right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2x4 SPF No.2 Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), TOP CHORD Structural wood sheathing directly applied or see Standard Industry Gable End Details as applicable. 6-0-0 oc purlins, except end verticals. or consult qualified building designer as per ANSI/TPI 1. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc All plates are 2x4 MT20 unless otherwise indicated. 4) bracing. 5) Gable requires continuous bottom chord bearing. REACTIONS (lb/size) 10=188/13-2-0, 11=202/13-2-0, 6) Truss to be fully sheathed from one face or securely 12=181/13-2-0, 13=159/13-2-0, braced against lateral movement (i.e. diagonal web). 14=181/13-2-0, 15=202/13-2-0, Gable studs spaced at 2-0-0 oc. 7) 16=188/13-2-0 8) This truss has been designed for a 10.0 psf bottom Max Horiz 16=-71 (LC 6) chord live load nonconcurrent with any other live loads. Max Uplift 10=-34 (LC 9), 11=-75 (LC 9), * This truss has been designed for a live load of 20.0psf 9) 12=-51 (LC 9), 14=-51 (LC 8), on the bottom chord in all areas where a rectangle 15=-77 (LC 8), 16=-34 (LC 9) 3-06-00 tall by 2-00-00 wide will fit between the bottom 10=188 (LC 1), 11=202 (LC 22), Max Grav chord and any other members. 12=184 (LC 22), 13=159 (LC 1), 10) Provide mechanical connection (by others) of truss to 14=184 (LC 21), 15=202 (LC 21), bearing plate capable of withstanding 34 lb uplift at joint 16=188 (LC 1) 16, 34 lb uplift at joint 10, 51 lb uplift at joint 14, 77 lb (Ib) - Maximum Compression/Maximum uplift at joint 15, 51 lb uplift at joint 12 and 75 lb uplift at Tension joint 11. OF MISS TOP CHORD 2-16=-166/48, 1-2=0/32, 2-3=-62/59, TF 11) This truss is designed in accordance with the 2018 3-4=-44/85, 4-5=-46/110, 5-6=-46/103, International Residential Code sections R502.11.1 and 6-7=-44/79, 7-8=-54/51, 8-9=0/32, R802.10.2 and referenced standard ANSI/TPI 1. SCOTT M. 8-10=-166/52 LOAD CASE(S) Standard SEVIER BOT CHORD 15-16=-20/42, 14-15=-20/42, 13-14=-20/42, 12-13=-20/42, 11-12=-20/42, 10-11=-20/42 5-13=-118/0. 4-14=-147/76. 3-15=-153/98. 6-12=-147/76, 7-11=-153/97 PE-2001018807 O Unbalanced roof live loads have been considered for this design. SSIONAL January 27,2022 MiTek



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	H1	GABLE	1	1	Job Reference (optional)	149887785

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:06 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.3

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

		1										-	
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.07	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 40 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 12=132/8 16=126/8 18=65/8-5 Max Horiz 19=120 (I Max Uplift 12=-47 (L 14=57 (L 18=-74 (L 18=-74 (L 18=121 (I 18=121 (I 18=12) (I 18=121 (I 18=12)	athing directly applied cept end verticals. applied or 6-0-0 oc -8-0, 13=65/8-8-0, -8-0, 15=126/8-8-0, -8-0, 17=125/8-8-0, -2-0, 17=125/8-8-0, -2-0, 17=125/8-8-0, -2-0, 17=-57 (LC 9), -2-0, 17=-57 (LC 9), -2-20, 13=112 (LC 1), -2-22), 13=112 (LC 1), -2-22), 15=126 (LC 1), -2-22), 15=126 (LC 1), -2-22), 15=126 (LC 1), -2-12, 17=129 (LC 21), -2-12, 17=129 (LC 21), -2-12, 17=129 (LC 21), -2-12, 17=129 (LC 21), -2-12, 15=126 (LC 1), -2-12, 15=126 (LC 1),-2-12, 15=126 (LC 1), -2-12, 15=126 (LC 1),-2-12,	2) d or 4) 5) 6) 7) 8) 9) 6), 10 6) 6) 11 51, LC	Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Truss desigr only. For stu see Standari or consult qu All plates are Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar) Provide mec bearing plate 19, 47 lb upl uplift at joint joint 13.) This truss is International	7-16; Vult=115m n; TCDL=6.0psf; E (closed; MWFRS i t and right expose d; Lumber DOL=1 led for wind loads dids exposed to wi d Industry Gable B lalified building de 2 x4 MT20 unless; es continuous bot ully sheathed from ist lateral movem spaced at 1-4-0 o is been designed an onconcurrent nas been designed n chord in all area by 2-00-00 wide w y other members hanical connectio e capable of withs fit at joint 12, 74 lb 17, 57 lb uplift at designed in accoor Residential Code nd referenced sta	BCDL=6.1 (envelope ed; end v 1.60 plate in the plate in the plate in the plate in the plate so therwittom chor m one fac ent (i.e. d oc. for a 10.1 with any d for a liv as where vill fit betv s. m (by oth tranding 6 b uplift at joint 14 a rdance w	Dpsf; h=25ft; a) exterior zo vertical left ar grip DOL=1. ane of the tru al to the face ils as applica is per ANSI/T se indicated. d bearing. e or securely iagonal web) D psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss i joint 18, 57 II nd 70 Ib uplif ith the 2018 s R502.11.1 a	ne; nd .60 iss .bble, .bble, .PI 1. /				STATE OF J STATE OF J SEV OF JE-2001	MISSOUR T M. IER MISSOUR IER

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

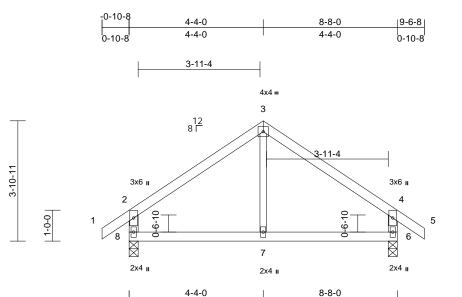


January 27,2022

Job	Truss	Truss Type		Ply	Lot 121 MN				
B220017	H2	Common	4	1	Job Reference (optional)	149887786			

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:07 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-4-0





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	7-8	>999	240	Weight: 29 lb	FT = 10%

4-4-0

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 6=448/0-3-8, 8=448/0-3-8
	Max Horiz 8=-120 (LC 6)
	Max Uplift 6=-64 (LC 9), 8=-64 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/40, 2-3=-363/73, 3-4=-363/73,
	4-5=0/40, 2-8=-394/98, 4-6=-394/98
BOT CHORD	7-8=0/236, 6-7=0/236
WEBS	3-7=0/160

NOTES

- 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
- 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
- * 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 64 lb uplift at joint 8 and 64 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SCOTT M. SEVIER PE-2001018807 January 27,2022

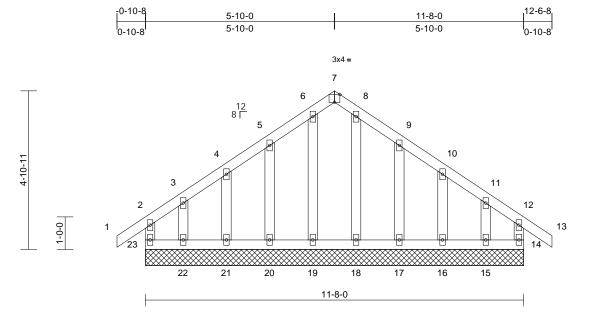
Page: 1



Job	Truss	Truss Type		Ply	Lot 121 MN				
B220017	НЗ	GABLE	1	1	Job Reference (optional)	149887787			

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:07 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.5

Plate Offsets (X, Y): [7:0-2-0,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-R							Weight: 57 lb	FT = 10%
LUMBER					NOTES									
TOP CHORD	2x4 SPF	No 2				roof live loads ha	ave been	considered fo	r					
BOT CHORD	2x4 SPF				this design.									
WEBS	2x4 SPF			:	0	7-16; Vult=115n	nph (3-se	cond aust)						
OTHERS	2x4 SPF			-		n; TCDL=6.0psf;			Cat.					
BRACING	2.0.0.1					closed; MWFRS								
TOP CHORD	Structura	wood she	athing directly applie	dor	cantilever lef	t and right expos	sed; end	vertical left an	d					
			cept end verticals.	4 01	right expose	d; Lumber DOL=	1.60 plate	grip DOL=1.	60					
BOT CHORD			applied or 6-0-0 oc	:	 Truss design 	ed for wind load	s in the pl	ane of the tru	ss					
DOT ONORD	bracing.	ing directly			only. For stu	ids exposed to w	/ind (norm	al to the face),					
REACTIONS	0	1/-137/1	1-8-0, 15=76/11-8-0,			d Industry Gable								
REACTIONS	(10/5120)		1-8-0, 17=117/11-8-0,			alified building d			기 1.					
			1-8-0, 19=126/11-8-0) '		e 2x4 MT20 unle								
			1-8-0, 21=127/11-8-0	j t		es continuous bo								
			-8-0, 23=137/11-8-0	·' (ully sheathed fro								
	Max Horiz	23=-146 (,			nst lateral moven		liagonal web)	•					
		,	C 5), 15=-89 (LC 9),			spaced at 1-4-0								
			C 9), 17=-65 (LC 9),	8		is been designed								
			C 8), 21=-37 (LC 8),			ad nonconcurren	,							
			C 8), 23=-72 (LC 4)	ę		has been designe)psf					
	Max Grav	14=147 (L	_C 15), 15=128 (LC 1	6),		n chord in all are								
		16=127 (L	_C 22), 17=127 (LC 1	6),		y 2-00-00 wide		veen the botto	om					
		18=126 (L	_C 1), 19=128 (LC 18	3		ny other member hanical connecti								-
		20=125 (L	_C 15), 21=127 (LC 2	21),		capable of with							CON	ADA
		22=139 (L	_C 15), 23=163 (LC 1	6)		ft at joint 14, 94							A OF I	MISC
FORCES	(lb) - Max	kimum Com	pression/Maximum			21, 65 lb uplift at						1	TATE OF M	N.OS
	Tension					ft at joint 16 and			joint			R	SCOT	New M
TOP CHORD)/40, 2-3=-85/82,			designed in acco						4		
	3-4=-57/6	64, 4-5=-47	/83, 5-6=-36/115,			Residential Cod			nd			1	SEVI	EK / X
		,	/87, 8-9=-23/109,			nd referenced sta						(II C		0 1 * 1
			-40/57, 11-12=-65/6	² , I	OAD CASE(S)							10/		
		40, 12-14=-				Standard							NUM	
BOT CHORD			2=-71/75, 20-21=-71/									27	PE-2001	
		,)=-71/75, 17-18=-71/	,								N	PE-2001	01880/ 201
		,	6=-71/75, 14-15=-71/									Y	PE-2001	1 SA
WEBS		,	100/59, 5-20=-98/79									0	W Slow	TENA
			99/0, 9-17=-99/80,										ESSIONA	L
	10-16=-1	00/59, 11-1	5=-83/75											
													January	/ 27,2022
														,



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	H4	GABLE	1	2	Job Reference (optional)	149887788

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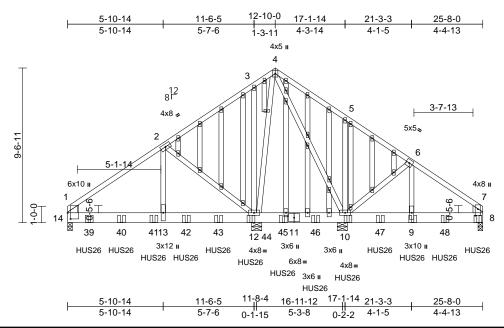


Plate Offsets (X, Y): [1:0-4-9,0-2-2], [7:0-4-14,0-2-0]

Scale = 1:71.2

	, , , , ,, ,,												
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		1.15		TC	0.31	Vert(LL)		13-14	>999	360	MT20	197/144
TCDL	10.0	1 1	1.15		BC	0.32	Vert(CT)		13-14	>999	240	-	
BCLL	0.0*		NO		WB	0.71	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0			3/TPI2014	Matrix-S		Wind(LL)		13-14	>999	240	Weight: 465 lt	o FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x8 SP DSS 2x4 SPF No.2 *Exce 2400F 2.0E 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 10	ept* 14-1,8-7:2x8 SP athing directly applied of cept end verticals. applied or 10-0-0 oc	2) 3)	All loads are except if noto CASE(5) sec provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Truss design	considered equa ed as front (F) or l titon. Ply to ply co listribute only loar wise indicated. roof live loads ha 7-16; Vult=115m ; TCDL=6.0psf; f closed; MWFRS t and right expose d; Lumber DOL=1 ed for wind loads d(s exposed to wi	back (B) ponnection ds noted we been of ph (3-sec BCDL=6.1 (envelope ed ; end v 1.60 plate s in the pla	d to all plies, face in the LC s have been as (F) or (B), considered fo cond gust) Opsf; h=25ft; (a) exterior zor vertical left an grip DOL=1.t ane of the tru:	DAD Cat. ne; d 60 ss	1) De Pli Ur Co	ead + Ro ate Incre hiform Lo Vert: 1-4 oncentra Vert: 12 9=-1232 (B), 42=	oof Live ease=1 bads (II 4=-70, ited Los 2=-1238 2 (B), 3 -1238	e (balanced): Lu .15 p/ft) 4-7=-70, 8-14= ads (lb) 3 (B), 10=-1236 9=-1236 (B), 40	umber Increase=1.15, -20 (B), 8=-259 (B),)=-1238 (B), 41=-1238 (B), 45=-1238 (B),
	12=7197/ Max Horiz 14=-246 (Max Uplift 8=-129 (L 12=-286 (Max Grav 8=1749 (L 12=8049 (lb) - Maximum Corr	2), ⁷)	see Standard or consult qu All plates are Truss to be f braced again Gable studs	d Industry Gable I alified building de 2x4 MT20 unles ully sheathed from spaced at 1-4-0 c s been designed	End Deta esigner as s otherwi m one fac ent (i.e. d oc.	ils as applicat s per ANSI/TF se indicated. se or securely liagonal web).	ole, Pl 1.						
	Tension		0)		ad nonconcurrent			ds.					
TOP CHORD		=-46/1178, 3-4=0/1070, 3/1067, 6-7=-1139/39, 3=-728/60	10) * This truss h on the bottor	nas been designe n chord in all area by 2-00-00 wide w	d for a liv as where	e load of 20.0 a rectangle	psf				CT OF	ADD A
BOT CHORD	13-14=-207/2190, 12 10-12=-815/201, 9-1	2-13=-207/2190, I0=-12/883, 8-9=-12/88	3 11		y other members						L	TATE OF	MISSO STIM
WEBS	2-13=-58/3941, 2-12 4-12=-1029/0, 4-10=		3, 09	bearing plate joint 14, 286 and 129 lb u	e capable of withs Ib uplift at joint 12 plift at joint 8.	tanding 2 2, 286 lb	23 Ib uplift at uplift at uplift at joint 1				H.	2/ 500	IT M.
(0.131"x3" Top chords oc, 2x8 - 2 Bottom cho staggered	to be connected toge) nails as follows: s connected as follows rows staggered at 0-9 ords connected as foll at 0-7-0 oc. ected as follows: 2x4 -	s: 2x4 - 1 row at 0-9-0 9-0 oc. ows: 2x8 - 2 rows	13	International R802.10.2 at Use Simpson Truss) or equ 1-4-0 from th back face of	designed in acco Residential Code nd referenced sta n Strong-Tie HUS uivalent spaced a e left end to 25-4 bottom chord. else where hange Standard	e sections indard AN 26 (14-1) t 2-0-6 oc -6 to con	s R502.11.1 a ISI/TPI 1. Od Girder, 4-1 c max. starting nect truss(es)	0d g at to			and the second s	FESSION,	AL ENGLASSI

January 27,2022

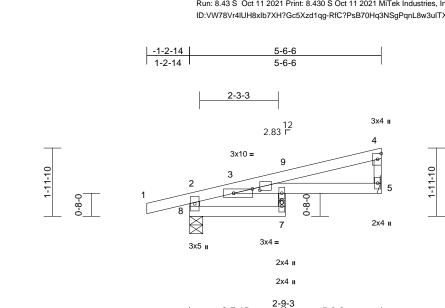
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	149887789

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Page: 1



2-7-15 5-6-6 2-7-15 2-9-3 0-1-4

Scale = 1:33.3

Plate Offsets (X, Y): [3:0-9-1,0-1-1], [3:0-6-8, 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	0.34	Vert(LL)	-0.03	3-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.27	Vert(CT)	-0.07	3-6	>913	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.02	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R	-	Wind(LL)	0.03	3-6	>999	240	Weight: 17 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	5-6-6 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 oc	d or 8)	provided suf down and 30 up at 2-9-8 2-7-15, and chord. The (s) is the res	other connect ficient to support b lb up at 2-9-4 on top chord, a 2 lb down and design/selectic ponsibility of o CASE(S) sect are noted as from Standard	ort concentra 8, and 66 lb and 2 lb dow 1 lb up at 2 on of such co thers. tion, loads a	ted load(s) 6 down and 30 n and 1 lb up -7-15 on bott nnection dev) lb o at tom vice					
	(lb/size) 5=224/ M Max Horiz 8=64 (LC Max Uplift 5=-46 (LC	,	1-9 – 1)	Dead + Ro Plate Increa	of Live (balanc ase=1.15	ed): Lumber	Increase=1.	.15,					
FORCES	(lb) - Maximum Corr Tension	pression/Maximum			ads (ID/ft) =-70, 2-4=-70, ed Loads (Ib)	7-8=-20, 5-	6=-20						
TOP CHORD	2-8=-331/125, 1-2=0				2 (F=1, B=1)								

3-4=-140/19, 4-5=-142/58 BOT CHORD 7-8=0/0, 3-6=-16/108, 5-6=-16/108 WEBS 6-7=0/54

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 8 and 46 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISSO SCOTT M. SEVIER OFF PE-200101880 SSIONAL E January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J2	Jack-Open	3	1	Job Reference (optional)	149887790

1-4-5

1-4-5

1-6-0

3x5 =

3

12 4 Г

-0-10-8

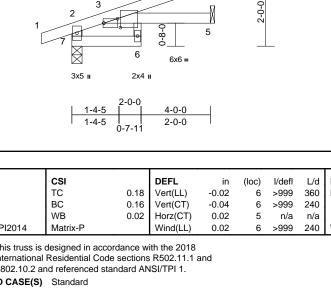
0-10-8

2-0-0

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



4-0-0

2-7-11

Scale = 1:33.3

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

	(X, 1). [3.0-3-12,0-1-3	j, [3.0-4-12,0-1-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC 0	.18	Vert(LL) -0.0)2 6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		.16	Vert(CT) -0.0		>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB 0	.02	Horz(CT) 0.0			n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL) 0.0)2 6	>999	240	Weight: 12 lb	FT = 10%
LUMBER			6) This truss	is designed in accordance	ce wi	ith the 2018					
TOP CHORD	2x4 SPF No.2			al Residential Code sect							
BOT CHORD	2x4 SPF No.2		R802.10.2	and referenced standard	d AN	ISI/TPI 1.					
WEBS	2x4 SPF No.2 *Exce	ept* 6-3:2x3 SPF No.	.2 LOAD CASE(Standard 							
BRACING											
TOP CHORD			ed or								
	4-0-0 oc purlins, ex										
BOT CHORD	0 0 7	applied or 6-0-0 oc									
	bracing.										
REACTIONS		echanical, 5=56/									
	Max Horiz 7=63 (LC	al, 7=265/0-3-8									
	Max Uplift 4=-45 (LC	,									
	Max Grav 4=111 (LC	,, , ,	-265								
	(LC 1)	0 1), 0=71 (20 0), 75	-200								
FORCES	(lb) - Maximum Com	pression/Maximum									
	Tension	iprocolori, maximum									
TOP CHORD	2-7=-248/72, 1-2=0/2	23, 2-3=-39/22,									
	3-4=-32/29										
BOT CHORD	,										
WEBS	3-6=0/67										
NOTES											
	CE 7-16; Vult=115mph									San	ann
	nph; TCDL=6.0psf; BC									OF J	MISCO
	Enclosed; MWFRS (er									4 SE	-20 M
	left and right exposed sed; Lumber DOL=1.6								B	STATE OF SCOT	T M X
	has been designed for								R	S SEV	
,	load nonconcurrent wi		ds.						A.	_/ SEV	
	s has been designed f								YO		0 120
on the bot	tom chord in all areas	where a rectangle							XX	175	· Xenter
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	om						N	MAN	

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

5)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 7 and 45 lb uplift at joint 4.



PE-200101880'

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January 27,2022

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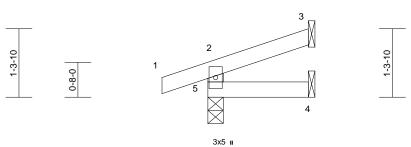
Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J3	Jack-Open	4	1	Job Reference (optional)	149887791

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:08 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





1-10-15



-

Scale	> = 1.3	21.9

00010 - 1.21.0	,										-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER												
TOP CHORD	2x4 SPF No.2											
BOT CHORD	2x4 SPF No.2											
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	1-10-15 oc purlins,											
BOT CHORD		applied or 10-0-0 o	0C									
REACTIONS	bracing.	chanical, 4=14/										
REAGNONO		al, 5=171/0-3-8										
	Max Horiz 5=35 (LC	,										
	Max Uplift 3=-24 (LC	(LC 4), 5=-59 (LC 4)										
	Max Grav 3=44 (LC	1), 4=31 (LC 3), 5=	:171									
	(LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	,	23, 2-3=-25/10										
BOT CHORD	0 4-5=0/0											
NOTES												
	CE 7-16; Vult=115mph		. .									
	mph; TCDL=6.0psf; BC											
	; Enclosed; MWFRS (er r left and right exposed											
	osed; Lumber DOL=1.6										200	all
	s has been designed for										F OF	MISSO
	e load nonconcurrent wi		ids.							1	THIE OF	N.O.
3) * This true	ss has been designed f	or a live load of 20.	0psf							8	SI SCOT	ттм.
	ottom chord in all areas									R	~/	
	all by 2-00-00 wide will	fit between the bott	om							R		
	d any other members.									NY.		0
	girder(s) for truss to tru		to .							K	goll	: Server
	nechanical connection (plate capable of withstar									33	NUM	IBER /
	Ib uplift at joint 3.	iung 55 ib upint at j	John							N	NUM PE-200	1018807
	s is designed in accorda	ance with the 2018								V	The	18B
-,										· · · · ·	N VON	1.63 1

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

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J4	Jack-Open Girder	1	1	Job Reference (optional)	149887792

-1-4-6 1-4-6

Wheeler Lumber, Waverly, KS - 66871,

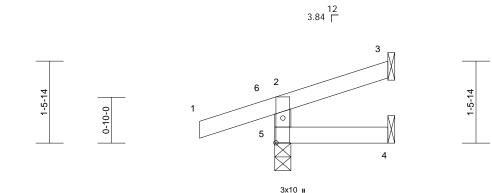
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:09 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-0-10

2-0-10

2-0-10

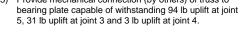
Page: 1



Scale = 1:20.9

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

1 1010 0 110010 (,, ,, ,, [0.0 0 0,0 1 0	1										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2	CSI TC BC WB 014 Matrix-R	0.12 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 0.00 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 2) This truss chord live 3) * This trus on the bot	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh 2-4-1 oc purlins, e Rigid ceiling directl bracing. (Ib/size) 3=8/ Me 5=103/0 Max Horiz 5=50 (LC Max Uplift 3=-31 (L (LC 6) Max Grav 3=8 (LC 1)	eathing directly appli xcept end verticals. y applied or 10-0-0 o chanical, 4=-1/ Mech 3-8 C 7) C 12), 4=-3 (LC 16), 1), 4=22 (LC 3), 5=1 mpression/Maximum 4/17, 2-3=-17/1 h (3-second gust) CDL=6.0psf; h=25ft; envelope) exterior zor d; end vertical left ar 60 plate grip DOL=1. or a 10.0 psf bottom vith any other live loa for a live load of 20.0 s where a rectangle	6) This Inter R80 7) Han prov dow ed or dow at - c con 8) In th LOAD C 1) De 5=-94 Pla 5=-94 Pla 5=-94 Co 03 Tra 03 Tra 1 5 Cat. ne; id 60 ds. Opsf	014 Matrix-R truss is designed in ac national Residential Cc 2.10.2 and referenced s ger(s) or other connecti ided sufficient to suppon n and 7 lb up at -1-10, n on top chord. The ection device(s) is the e LOAD CASE(S) secti e truss are noted as from ASE(S) Standard ad + Roof Live (balanced (b) vert: 1=-30 (F=-15, B=- upezoidal Loads (lb) vert: 1=0 (F=35, B=35)- F=35, B=35)-to-2=-7 (f) F=35, B=35)-to-3=-45 (F=13, 1 o-4=-13 (F=4, B=4)	ode sections standard AN ion device(s ort concentra , and 19 lb d e design/sel responsibili ion, loads a ont (F) or ba ed): Lumber 15) -to-6=-30 (F F=31, B=31)	Wind(LL) ith the 2018 R502.11.1 a ISI/TPI 1.) shall be ited load(s) 1 lown and 7 lb ection of sucl ty of others. plied to the f ck (B). Increase=1. =20, B=20), 6 , 2=-7 (F=31,	0.00 nd 9 lb 9 up n face 15,	4-5	>999		STATE OF	MISSOU
chord and 4) Refer to gi 5) Provide m bearing pla	any other members. irder(s) for truss to tr echanical connection ate capable of withsta blift at joint 3 and 3 lb	uss connections. (by others) of truss t anding 94 lb uplift at j	0								PE-200	ENGINE



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

January 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J5	Jack-Open	1	1	Job Reference (optional)	149887793

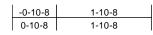
1-6-6

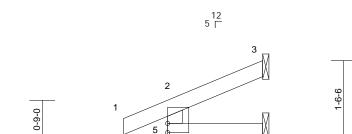
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:09 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1







5x6 II

1-10-8

Could = HEEH												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240	-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		FT 4004
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%
LUMBER												
TOP CHORD												
BOT CHORD												
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORD												
	1-10-8 oc purlins, e											
BOT CHORD	 Rigid ceiling directly bracing. 	applied or 10-0-0 0	C									
REACTIONS	•	chanical, 4=13/										
		al, 5=170/0-3-8										
	Max Horiz 5=39 (LC											
	Max Uplift 3=-27 (LC											
	Max Grav 3=43 (LC	1), 4=31 (LC 3), 5=	170									
FORCES	(LC 1) (lb) - Maximum Corr	nroacion/Movimum										
FURGES	Tension	ipression/waximum										
TOP CHORD		27. 2-3=-31/12										
BOT CHORD	,											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										
	mph; TCDL=6.0psf; BC											
	Enclosed; MWFRS (er											
	r left and right exposed										000	ADD
	osed; Lumber DOL=1.6 s has been designed fo		60								OF	MICON
	e load nonconcurrent wi		ds								TATE OF	-0.0
	ss has been designed f									A	N	New York
on the bo	ttom chord in all areas	where a rectangle								R.	-	
	all by 2-00-00 wide will	fit between the bott	om							8	SEV	
	d any other members.									83	1	1 * 8
	girder(s) for truss to tru									83	X an He	· San M
	nechanical connection late capable of withstar										Carton	Bernow
	Ib uplift at joint 3.	ioning oo io upiint at j	Unit.							N'	ON PE-200	1018807
	is designed in second	anao with the 2019								N V	10	12A

 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

January 27,2022

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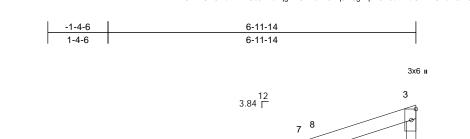


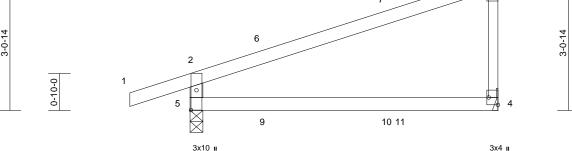
Job	Truss	Truss Type	Qty	Ply	Lot 121 MN				
B220017	J6	Diagonal Hip Girder	1	1	Job Reference (optional)	149887794			

 I
 J DD Keterence (optional)

 Run: 8.43 S
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Scale = 1:26.2

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

	3 (A, F). [+.Edg.,0.2 0], [0.0 0,0.7 0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.08	4-5	>974	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.18	4-5	>457	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 20 lb	FT = 10%
	2x4 SPF No 2		, , , , , , , , , , , , , , , , , , , ,	or other connecti	· ·	/	72 lb					

6-11-14

CHORD BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 4=300/ Mechanical, 5=420/0-3-8 Max Horiz 5=128 (LC 7) Max Uplift 4=-78 (LC 8), 5=-129 (LC 4) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-371/176, 1-2=0/32, 2-3=-187/22, 3-4=-209/107 BOT CHORD 4-5=-43/71

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 5 and 78 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 22 lb up at 1-11-2, 63 lb down and 16 lb up at 2-1-12, and 77 lb down and 55 lb up at 4-9-0, and 97 lb down and 69 lb up at 5-0-10 on top chord, and 3 lb down and 3 lb up at 1-11-2, 4 lb down and 7 lb up at 2-1-12, and 13 lb down at 4-9-0, and 20 lb down at 5-0-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

- Concentrated Loads (lb)
- Vert: 8=-3 (B), 9=8 (F=5, B=3), 10=-2 (F), 11=-10 (B)

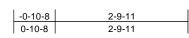


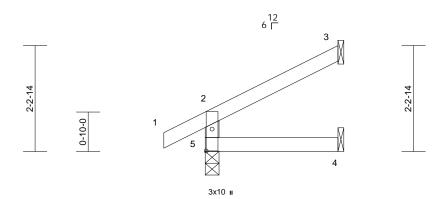
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J7	Jack-Open	1	1	Job Reference (optional)	149887795

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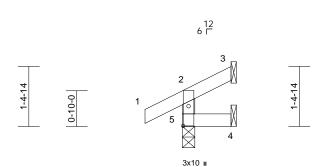
	2-	9-11		
Scale = 1:24.4			I	
Plate Offsets (X, Y): [5:0-5-9,0-1-8]				

Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.08 0.05 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 0.00 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 10%
BOT CHORD 2-9-11 oc purlins, e Rigid ceiling directly bracing. REACTIONS (Ib/size) 3=76/ Me	C 8), 5=-23 (LC 8)	c	Standard								
. ,	n (3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 00 plate grip DOL=1.0 or a 10.0 psf bottom ith any other live load for a live load of 20.0 where a rectangle fit between the botto uss connections. (by others) of truss to nding 23 lb uplift at jo ance with the 2018 sections R502.11.1 a	ne; d 60 ds. Dpsf om o								STATE OF SCOT SEV PE-2001 Januar	LER Services 018807



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J8	Jack-Open	1	1	Job Reference (optional)	149887796

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 -0-10-8
 1-1-11

 0-10-8
 1-1-11

1-1-11

Scale = 1:27

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

	[0:0 0 0;0 : 0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 4 lb	FT = 10%
LUMBER TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S BRACING TOP CHORD Struc 1-1-1 BOT CHORD Rigid bracii REACTIONS (Ib/size Max He Max U	PF No.2 PF No.2 PF No.2 PF No.2 tural wood she 1 oc purlins, e ceiling directly ng.) 3=6/ Mec 5=153/0-3 oriz 5=35 (LC olift 3=-16 (LC (LC 8) rav 3=8 (LC	eathing directly applie except end verticals. r applied or 10-0-0 or hanical, 4=1/ Mecha 3-8	6) This trus Internati R802.10 LOAD CASE ed or c unical,	s is designed in acconding the solution of the	de sections	ith the 2018 R502.11.1 a		5	>999	240	vveight: 4 ib	FT = 10%
Tensi	on	npression/Maximum										
TOP CHORD 2-5=- BOT CHORD 4-5=0	134/36, 1-2=0/)/0	/32, 2-3=-28/2										
 II; Exp C; Enclose cantilever left and right exposed; Lui This truss has bee chord live load no * This truss has be on the bottom chord 3-06-00 tall by 2-(chord and any oth Refer to girder(s) > Provide mechanic 	DL=6.0psf; BC d; MWFRS (er right exposed mber DOL=1.6 en designed fo nconcurrent w een designed fo rd in all areas 00-00 wide will her members. for truss to tru- al connection able of withsta	DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an i0 plate grip DOL=1.1 r a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle fit between the botto iss connections. (by others) of truss t nding 23 lb uplift at j	ne; d 60 ds. Dpsf om							Ï	SEV	IN MULTEN CONTRACT

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

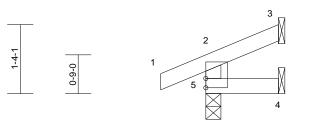


Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J9	Jack-Open	1	1	Job Reference (optional)	149887797

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5x6 II

1-4-14

Sca	le	_	1:22.3	

Loading (psf) Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 тс 0.07 Vert(LL) 0.00 4-5 >999 360 MT20 197/144 TCDI 10.0 BC Lumber DOL 1 15 0.02 Vert(CT) 0.00 >999 240 4-5 BCLL 0.0* **Rep Stress Incr** YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight: 5 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 1-4-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc BOT CHORD bracing. REACTIONS (lb/size) 3=22/ Mechanical, 4=5/ Mechanical, 5=157/0-3-8 Max Horiz 5=34 (LC 5) Max Uplift 3=-18 (LC 8), 5=-36 (LC 4) Max Grav 3=22 (LC 1), 4=21 (LC 3), 5=157 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-137/46, 1-2=0/27, 2-3=-25/5 BOT CHORD 4-5=0/0 NOTES Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 OF MISS This truss has been designed for a 10.0 psf bottom 2) P chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a live load of 20.0psf SCOTT M. on the bottom chord in all areas where a rectangle SEVIER 3-06-00 tall by 2-00-00 wide will fit between the bottom

- chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 18 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

SCOTT M. SEVIER NUMBER PE-2001018807

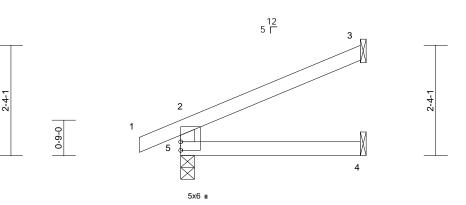


Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J10	Jack-Open	1	1	Job Reference (optional)	149887798

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:10 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







3-9-11

Scale	_ '	1.24 4

		1		·							1	
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.18	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2											
	2X4 SPF N0.2											
BRACING TOP CHORD	Structural wood she	athing directly applic	d or									
TOP CHORD	3-9-11 oc purlins, e											
BOT CHORD	Rigid ceiling directly bracing.		;									
REACTIONS	(lb/size) 3=110/ M	echanical, 4=42/ al, 5=244/0-3-8										
	Max Horiz 5=69 (LC	,										
	Max Uplift 3=-58 (LC											
	Max Grav 3=110 (L0		=244									
	(LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	2-5=-213/69, 1-2=0/2	27, 2-3=-60/33										
BOT CHORD	4-5=0/0											
NOTES												
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	DL=6.0psf; h=25ft; 0 hvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6	le; d								TATE OF I	
	has been designed for										ALE OF I	VIIS'S
	load nonconcurrent wi									6	A.T.	N.S.
	s has been designed f tom chord in all areas		psi							B	SCOT	IM. YZY
			m							B	SEV	ER \ Y
	3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.											
	irder(s) for truss to tru										cott	Semen
									BER A			
	ate capable of withstar b uplift at joint 3.	nding 35 lb uplift at jo	Dint							12	PE-2001	018807
	is designed in accorda	ance with the 2019								N	The	120
	al Residential Code s		nd							X	^{ESSIONA}	NOT
	and referenced stand		-								ONA	LEIS
											All and	

LOAD CASE(S) Standard

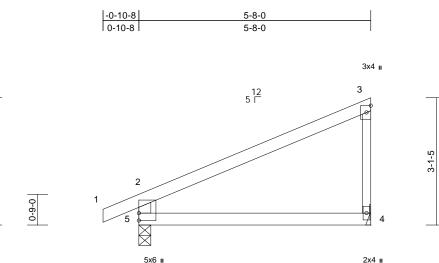
January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J11	Jack-Closed	3	1	Job Reference (optional)	149887799

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Page: 1



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2.44

5-8-0	

Scale = 1:28.2												
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	0.40	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	4-5	>868	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-8-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 4=237/ Mechanical, 5=322/0-3-8
	Max Horiz 5=127 (LC 5)
	Max Uplift 4=-58 (LC 8), 5=-57 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-5=-282/100, 1-2=0/27, 2-3=-133/31,
	3-4=-169/79

3-1-5

3-4=-169/79 BOT CHORD 4-5=-33/37

BOT CHORD

- NOTES
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 5 and 58 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

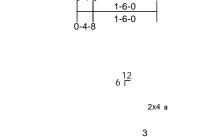


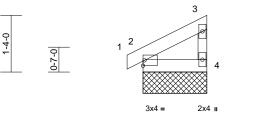


Job	Truss	Truss Type	Qty	Ply	Lot 121 MN		
B220017	J12	Jack-Closed Supported Gable	2	1	Job Reference (optional)	149887800	

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1-6-0

Scale = 1:27.1

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	0.03	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	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%
LUMBER			This truss is	designed in acc	ordance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			Residential Co			and					
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												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	1-6-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
	(0, 4=59/1-6-0										
	Max Horiz 2=39 (LC	,										
	Max Uplift 2=-14 (LC	C 8), 4=-18 (LC 8)										
FORCES	(lb) - Maximum Corr	pression/Maximum										
	Tension											
TOP CHORD	1-2=-6/0, 2-3=-43/2	1, 3-4=-45/26										
BOT CHORD	2-4=-14/10											
NOTES												
,	E 7-16; Vult=115mph	· · · · ·	• ·									
	ph; TCDL=6.0psf; BC											
	Enclosed; MWFRS (er left and right exposed	1 /	,									
	sed; Lumber DOL=1.6											
	gned for wind loads in											
,	studs exposed to wind											

- 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 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4 and 14 lb uplift at joint 2.





Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	J13	Jack-Closed	2	1	Job Reference (optional)	149887801

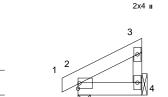
Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:10 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1









1-4-0

0-2-0



3x4 2x4 🛚

1-6-0

Scale = 1:27.1					1	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	0.02	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2						·		-			

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	1-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD		ing directly applied or 10-0-0 oc
REACTIONS	(lb/size)	2=94/0-3-8, 4=57/ Mechanical 2=39 (LC 5)
	Max Uplift	2=-15 (LC 8), 4=-17 (LC 8)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-6/0, 2-3=-43/21, 3-4=-44/25 BOT CHORD 2-4=-14/10

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4 and 15 lb uplift at joint 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

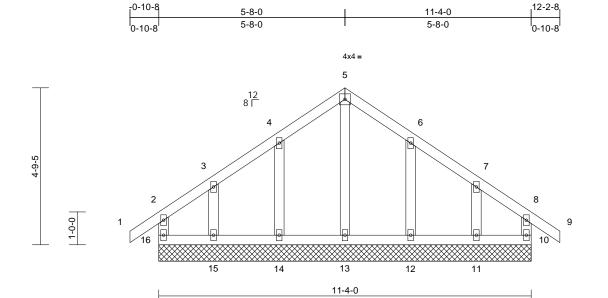




Job	Truss	Truss Type	Qty Ply		Lot 121 MN		
B220017	K1	Common Supported Gable	1	1	Job Reference (optional)	149887802	

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Page: 1



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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-R	0.07 0.04 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 10%
	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (lb/size) 10=141/1 12=195/1 16=141/1 Max Horiz 16=-144 (Max Uplift 10=-39 (L 12=-70 (L 15=-91 (L Max Grav 10=145 (L 12=198 (L 14=198 (L 16=152 (L	cept end verticals. applied or 6-0-0 oc 1-4-0, 11=145/11-4-(1-4-0, 13=173/11-4-(1-4-0) LC 6) C 5), 11=-88 (LC 9), C 9), 14=-70 (LC 8), C 8), 16=-53 (LC 4). C 22), 11=183 (LC 1) .C 16), 13=179 (LC 1) .C 21), 15=189 (LC 1).	3) d or 4) 5) , 6) , 7) 8) 9) 6), 10	Vasd=91mpl II; Exp C; En cantilever lef right exposed Truss design only. For stu see Standard or consult qu All plates are Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t chord and ar p) Provide mec bearing plate	7-16; Vult=115r n; TCDL=6.0psf; closed; MWFRS di and right exposi d; Lumber DOL= red for wind load dds exposed to v d Industry Gable alified building of e 2x4 MT20 unle es continuous bo ully sheathed fro rist lateral mover spaced at 2-0-0 is been designer ad nonconcurrer has been designer ad nonconcurrer has been designer ad nonconcurrer has been designer ad nonconcurrer being of the table of with f tat joint 10, 70	BCDL=6.6 § (envelope sed ; end v =1.60 plate is in the plate is in the plate is in the plate is in the plate designer as so otherwi- othor chor por one fac nent (i.e. d oc. d for a 10.0 t with any eas where will fit betw rs. ion (by oth standing 5	Opsf; h=25ft; a) exterior zo vertical left ar grip DOL=1. ane of the tru al to the face ils as applica s per ANSI/TI se indicated. d bearing. the or securely liagonal web) D psf bottom other live loa e load of 20.1 a rectangle veen the bott ers) of truss i 33 lb uplift at j	ne; d 60 ss), ble, PI 1. ds. Opsf om o					
FORCES	(lb) - Maximum Com Tension 2-16=-131/47, 1-2=0 3-4=-55/90, 4-5=-47, 6-7=-44/85, 7-8=-62,)/40, 2-3=-80/80, /127, 5-6=-39/122,	11	joint 11.) This truss is International	15, 70 lb uplift a designed in accor Residential Coo nd referenced st	ordance w le sections	ith the 2018 R502.11.1 a					STATE OF J	MISSO
BOT CHORD	8-10=-131/42 15-16=-69/70, 14-15 12-13=-69/70, 11-12		70,	DAD CASE(S)	Standard						A	SCOT SEV	T M.
WEBS	5-13=-140/0, 4-14=- 6-12=-160/97, 7-11=		Β,							2	B	otto	Sert

NOTES

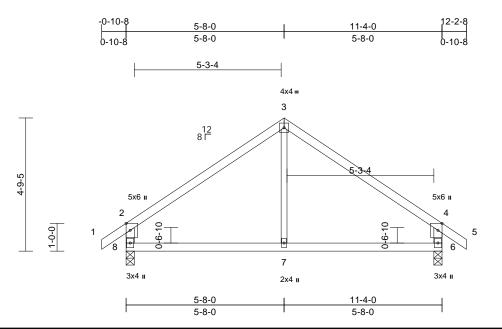
1) Unbalanced roof live loads have been considered for this design.





Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	К2	Common	1	1	Job Reference (optional)	149887803

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Plate Offsets (X, Y): [2:0-3-0,Edge], [4:0-3-0,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	0.40	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	7-8	>999	240	Weight: 36 lb	FT = 10%

- LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 6=568/0-3-8, 8=568/0-3-8
	Max Horiz 8=144 (LC 7)
	Max Uplift 6=-78 (LC 9), 8=-78 (LC 8)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/40, 2-3=-513/95, 3-4=-513/95,
	4-5=0/40, 2-8=-508/122, 4-6=-508/122
BOT CHORD	7-8=0/336, 6-7=0/336
WEBS	3-7=0/226

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
- 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 78 lb uplift at joint 8 and 78 lb uplift at joint 6.

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

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	КЗ	Common Girder	1	2	Job Reference (optional)	149887804

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

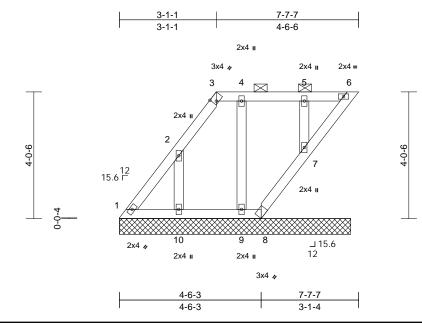
			-										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.56	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.46	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.41	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/T	PI2014	Matrix-R		Wind(LL)	0.03	7-8	>999	240	Weight: 106 lb	FT = 10%
BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) 2-ply trus (0.131"x3 Top chord oc, 2x8 - Bottom cl staggered Web com 2) All loads : except if i CASE(S) provided unless ott	10.0 2x4 SPF No.2 2x6 SP 2400F 2.0E 2x8 SP DSS *Excep Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 6=4282/0 8=4282/0 Max Horiz 8=-144 (L Max Uplift 6=-159 (L Max Grav 6=4706 (I (lb) - Maximum Com Tension 1-2=0/46, 2-3=-3525 4-5=0/46, 2-8=-2211 7-8=-45/2856, 6-7=- 3-7=-41/3600 s to be connected toge ") nails as follows: 2 rows staggered at 0-5 nords connected as follows 2 rows staggered at 0-5 nords connected as follows: 2 rows staggered at 0-5 nords connected as follows: 2 rows staggered at 0-6 nords connected as follows: 2 rows staggered at 0-6 0 rows (b) p) com to distribute only loads herwise indicated.	Code t* 7-3:2x4 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc -3-8, (req. 0-3-11), -3-8, (req. 0-3-11), C 6) C 9), 8=-159 (LC 8) LC 16), 8=-4706 (LC 1) opression/Maximum 5/158, 3-4=-3524/158 1/174, 4-6=-2211/174 45/2856 ther with 10d s: 2x4 - 1 row at 0-9-0 g-0 oc. ows: 2x6 - 2 rows -1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO) nections have been noted as (F) or (B),	IRC2018/T 4) V 4) V 5) T 5) 8) F 5) 8) F 10) L 11) F 1) LOAI 1)	Wind: ASCE //asd=91mph //sd=91mph	Matrix-R 7-16; Vult=115m ; TCDL=6.0psf; E closed; MWFRS (t and right expose ; Lumber DOL=1 s been designed d nonconcurrent has been designed n chord in all aree y 2-00-00 wide w y 0 other members Required bearing aring size. hanical connectio capable of withsi 9 lb uplift at joint designed in accor Residential Code dn referenced stat on Strong-Tie HUS hvalent spaced at e left end to 10-8 bottom chord. les where hanger Standard of Live (balanced) as=1.15	ph (3-sec Garage Constraints of the sections of the sections o	Wind(LL) wind(LL) wond gust) Opsf; h=25ft; e) exterior zo vertical left ar grip DOL=1. 0 psf bottom other live load e load of 20. a rectangle veen the bott int(s) 8, 6 grd ers) of truss i 59 lb uplift ar ith the 2018 R502,11.1 ar ISI/TPI 1. OG Girder, 4	0.03 Cat. ne; nd .60 ads. 0psf om eater to t t and 10d g at) to aber. 15,			240	STATE OF M STATE OF M SEVI SEVI PE-2001	MISSOLIN MISSOLIN ER DI 8807
SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE RESPONSIBILITY OF THE TRUSS MANUFACTURER											January	L EN022 27,2022	
Design v a truss s building is always fabricatio	OK THE BUILDING NING - Verify design paramete valid for use only with MiTek@ ystem. Before use, the buildi design. Bracing indicated is s required for stability and to on, storage, delivery, erection nformation available from T	ers and READ NOTES ON T o connectors. This design is ng designer must verify the to prevent buckling of indiv prevent collapse with possi and bracing of trusses and	based only upo applicability of idual truss web ble personal inju d truss systems,	on parameters s design paramet and/or chord me ury and property , see	shown, and is for an in ers and properly incor embers only. Addition (damage. For genera ANSI/TPI1 Quality Cri	dividual bui porate this al tempora al guidance	lding component design into the c ry and permaner regarding the	t, not overall nt bracing	nponent			Nitek° 16023 Swingley F Chesterfield, MO	

Jo	ob	Truss	Truss Type	Qty	Ply	Lot 121 MN	
В	220017	LAY1	Lay-In Gable	1	1	Job Reference (optional)	149887805

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:11 ID:VW78Vr4IUH8xIb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:36.7

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

		1			1							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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 29 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-C Rigid ceiling directly bracing. (lb/size) 1=85/7-4. 7=173/7-4 9=154/7-4. Max Horiz 1=153 (LC (LC 5), 8- 5), 10=-1. Max Grav 1=115 (LC (LC 22), 8 1), 10=20	athing directly applie pept -0 max.): 3-6. applied or 10-0-0 or -7, 6=75/7-4-7, 4-7, 10=168/7-4-7, 28) 6), 6=-41 (LC 8), 7=- -29 (LC 15), 9=-27 (49 (LC 8) 17), 6=75 (LC 1), 7 3=49 (LC 8), 9=154 (6 (LC 15)	4) 6d or 5) 6) 7) 5 8) 9) 38 LC 10 LC 11 LC 11	 Truss design only. For sti see Standar or consult qu Provide adee All plates are Gable studs This truss hat chord live lo. * This truss lo on the bottor 3-06-00 tall li chord and ai Provide med bearing plate t, 41 lb uplif at joint 10, 2 N/A This truss is International R802.10.2 a 	hed for wind loac uds exposed to v d Industry Gable Jalified building of quate drainage t e 2x4 MT20 unle spaced at 2-0-0 as been designe ad nonconcurrer has been designe m chord in all are by 2-00-00 wide ny other membe hanical connect e capable of with t at joint 6, 29 lb 7 lb uplift at joint designed in acco Residential Coo nd referenced st	vind (norm End Deta designer a: o prevent v soc. d for a 10. nt with any ed for a 10. nt with any ed for a liv asa where will fit betw rs. ion (by oth standing 5 uplift at joi 9 and 38 ordance w de sections andard AN	al to the face ils as applical is per ANSI/TK water ponding se indicated.) psf bottom other live loa e load of 20.0 a rectangle ween the botto ers) of truss t i lb uplift at joi nt 8, 149 lb u lb uplift at joir ith the 2018 R F502.11.1 a ISI/TPI 1.), ble, ble, pl 1. g. ds. g. opsf om o int plift it 7. nd				rrogn. 2018	
FORCES	(lb) - Maximum Com Tension 1-2=-145/66, 2-3=-8		12	or the orient	Irlin representati ation of the purli			ize					
	4-5=-27/32, 5-6=-27	/32	L	bottom chore OAD CASE(S)								OF	MIG
BOT CHORD	1-10=-32/27, 9-10=- 7-8=-58/59, 6-7=-61										4	ATE OF	AN OSCILL
WEBS	2-10=-165/173, 4-9=	-121/47, 5-7=-139/5	8								H	SCOT	TM
NOTES											H	SEV	
this desig 2) Wind: AS Vasd=91r II; Exp C; cantilever	ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed ssed; Lumber DOL=1.6	(3-second gust) DL=6.0psf; h=25ft; (nvelope) exterior zon ; end vertical left and	Cat. ie; d							1		NOM PE-2001	DIS807

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 121 MN	
B220017	V1	Valley	1	1	Job Reference (optional)	149887806

2-4-4 2-4-4

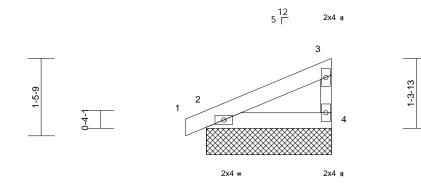
2-4-4

-0-4-12

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 15:07:11 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

16023 Swingley Ridge Rd Chesterfield, MO 63017



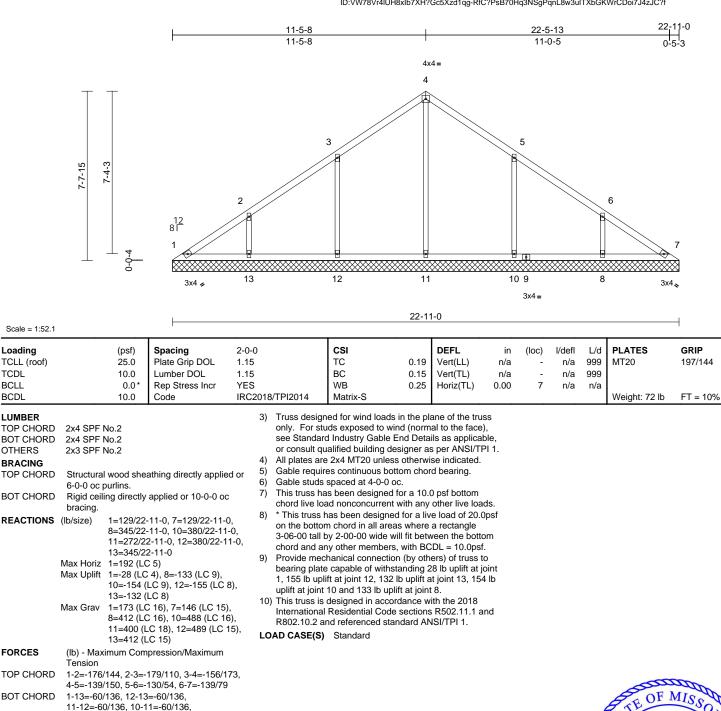
Scolo	_	1:21.7	
Scale	=	1:21.7	

Loading TCLL (roo TCDL BCLL 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-P	0.08 0.05 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHO BOT CHO WEBS BRACINO TOP CHO	0RD 2x4 SPF No.2 2x3 SPF No.2	athing directly applie	Internation R802.10. LOAD CASE	is designed in acco nal Residential Cod 2 and referenced sta S) Standard	le sections	R502.11.1	and					
BOT CHO	1-10-8 oc purlins, e RD Rigid ceiling directly bracing.		0									
REACTIC	NS (Ib/size) 2=131/2-4 Max Horiz 2=45 (LC Max Uplift 2=-25 (LC											
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHO BOT CHO	,	, 3-4=-76/36										
NOTES												
Vasd II; Ex cantil right (2) Truss	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),											
	tandard Industry Gable En										OF	MIG
	nsult qualified building design requires continuous botto		11.							1	TEOF	W OSCI
	studs spaced at 4-0-0 oc.									B	S SCOT	
	russ has been designed fo									B	SEV SEV	
6) * This on the 3-06-	live load nonconcurrent wi truss has been designed f bottom chord in all areas 00 tall by 2-00-00 wide will and any other members.	or a live load of 20.0 where a rectangle	psf							S	oit	Fortes
7) Provi beari	de mechanical connection in ng plate capable of withstar									N.	PE-2001	188
	25 lb uplift at joint 2. ed plate or shim required to	o provide full bearing]								SSIONA	LEN
surfa	e with truss chord at joint(s) 2.									all a	y 27,2022

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V2	Valley	1	1	Job Reference (optional)	149887807

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:12 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



- 8-10=-60/136, 7-8=-60/136 WEBS
- 4-11=-193/0, 3-12=-319/204, 2-13=-275/174, 5-10=-319/204, 6-8=-276/174
- NOTES

FORCES

Loading

TCDI

BCLL

BCDL

LUMBER

OTHERS

BRACING

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

SCOTT M. SEVIER NUMBER PE-2001018807 0 SSIONAL January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V3	Valley	1	1	Job Reference (optional)	149887808

TCDI

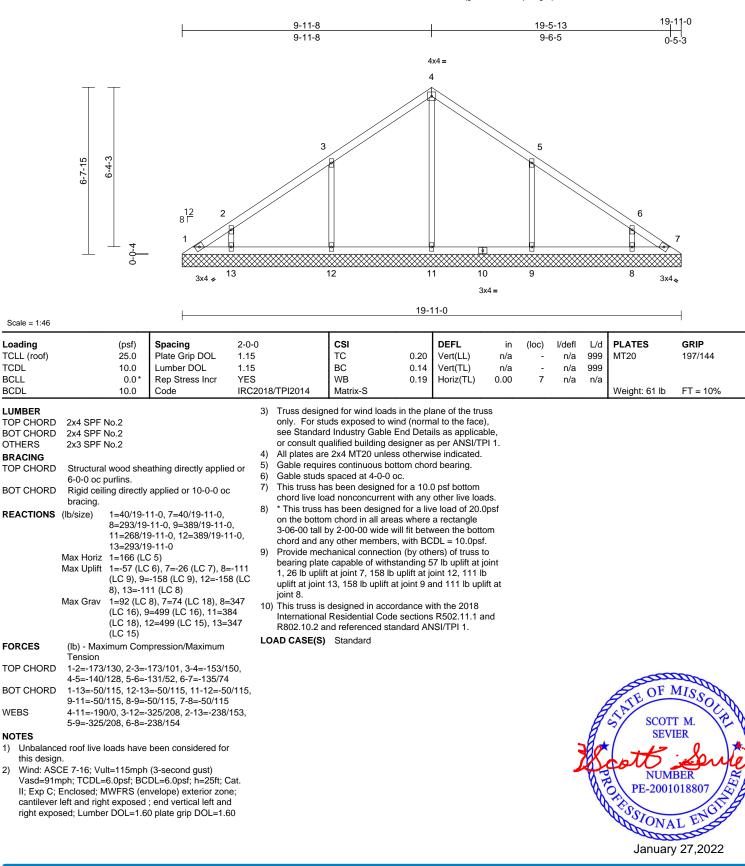
BCLL

BCDL

2)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:12 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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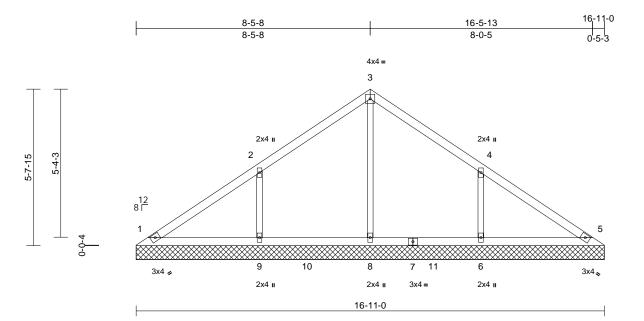




Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V4	Valley	1	1	Job Reference (optional)	149887809

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 15:07:12 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.6

		_											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 49 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	6-0-0 oc purlins. Rigid ceiling directl bracing. (Ib/size) 1=168/11 6=426/11 9=426/11 9=426/11 Max Horiz 1=-139 (Max Uplift 1=-15 (L 9=-172 (Max Grav 1=191 (L	eathing directly applie y applied or 10-0-0 oc 6-11-0, 5=168/16-11-(6-11-0, 8=254/16-11-(6-11-0 LC 4) C 9), 6=-171 (LC 9), LC 8) .C 16), 5=171 (LC 15) .C 16), 8=353 (LC 15)	6) 7) d or 8) ;), 9) ,, L(This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 1, 172 lb upli This truss is International 	s been designed ad nonconcurrent has been designed in chord in all area by 2-00-00 wide w by other members hanical connection of capable of withst ft at joint 9 and 17 designed in accor Residential Code and referenced star Standard	with any d for a liv as where rill fit betw , with BC n (by oth tanding 1 71 lb uplit rdance w s sections	other live loa e load of 20.0 a rectangle veen the botto CDL = 10.0psf ers) of truss t 5 lb uplift at ji ft at joint 6. ith the 2018 s R502.11.1 a	Dpsf om o oint					
FORCES	(lb) - Maximum Cor Tension	mpression/Maximum											
TOP CHORD	1-2=-147/104, 2-3= 4-5=-112/68	-148/126, 3-4=-140/1	05,										
BOT CHORD	1-9=-41/94, 8-9=-4 5-6=-41/94	1/94, 6-8=-41/94,											
WEBS	3-8=-184/0, 2-9=-3	47/218, 4-6=-347/217										COOL	ADD
NOTES												B & OF I	MIS SIN
this desigr 2) Wind: ASC	n. CE 7-16; Vult=115mp	e been considered for h (3-second gust) CDL=6.0psf; h=25ft; C										STATE OF A	
II; Exp C; cantilever right expo 3) Truss des	Enclosed; MWFRS (e left and right exposed sed; Lumber DOL=1. ligned for wind loads i	d; end vertical left and 60 plate grip DOL=1.6 n the plane of the trus d (normal to the face)	e; 1 60 s							-	K	NUM PE-2001	

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.

January 27,2022

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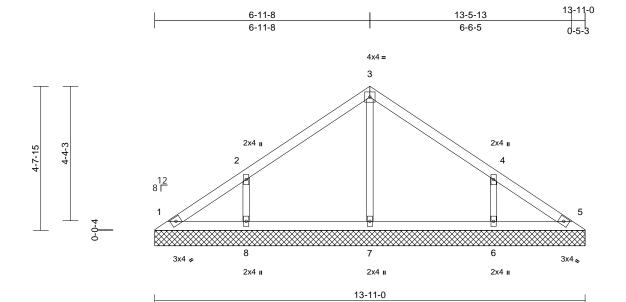


E

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V5	Valley	1	1	Job Reference (optional)	149887810

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Page: 1



Scale	=	1:37.3

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.17 0.10 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	GRIP 197/144
	6-0-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 1=100/13 6=345/13 Max Horiz 1=-113 (L Max Uplift 1=-16 (LC 8=-144 (L Max Grav 1=113 (LG	LC 4) C 4), 6=-143 (LC 9), LC 8) C 16), 5=100 (LC 1), C 16), 7=282 (LC 1),	7) d or 8) : 9)	This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide meci bearing plate bearing plate bearing plate bearing state bearing this truss is International	Matrix-S s been designed f ad nonconcurrent has been designed n chord in all area by 2-00-00 wide wi y other members. hanical connection capable of withst ft at joint 8 and 14 designed in accor Residential Code nd referenced star Standard	with any I for a liv s where ill fit betw n (by oth anding 1 3 lb uplit dance w sections	other live load e load of 20.0 a rectangle veen the botto ers) of truss to 6 lb uplift at jo ft at joint 6. ith the 2018 s R502.11.1 ar	psf m D Dint				Weight: 39 lb	FT = 10%
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD	1-2=-122/85, 2-3=-1 4-5=-95/46	45/104, 3-4=-140/81	,										
BOT CHORD	1-8=-29/76, 7-8=-29 5-6=-29/76	/76, 6-7=-29/76,											
WEBS		90/185, 4-6=-290/18	5									OF	A DE
this design 2) Wind: ASC Vasd=91m II; Exp C; I	ed roof live loads have CE 7-16; Vult=115mph iph; TCDL=6.0psf; BC Enclosed; MWFRS (ei loft and right exposed	n (3-second gust) DL=6.0psf; h=25ft; C nvelope) exterior zon	Cat. e;								-	STATE OF M	T 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.

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NUMBER

PE-2001018807

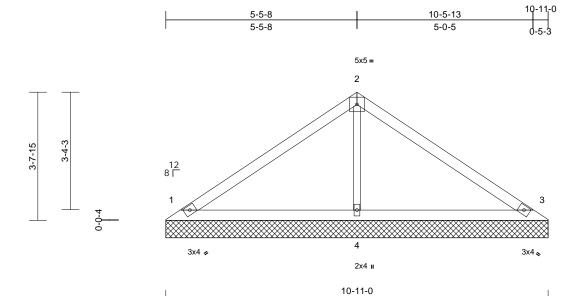
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O

Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V6	Valley	1	1	Job Reference (optional)	149887811

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Page: 1



Scale	i — 1	1:32.9	

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.35 0.21 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 29 lb	GRIP 197/144 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 shea 6-0-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie	8) 9) ed or	Provide mec bearing plate 1, 55 lb uplif This truss is International	hanical conne capable of v at joint 3 and designed in a Residential (nd referenced	ection (by oth vithstanding 4 d 17 lb uplift a accordance wi Code sections d standard AN	4 lb uplift at j it joint 4. ith the 2018 s R502.11.1 a	joint					
	(lb/size) 1=232/10- 4=438/10- Max Horiz 1=-87 (LC Max Uplift 1=-44 (LC (LC 8)	\$ 4)											
FORCES TOP CHORD BOT CHORD WEBS NOTES	(lb) - Maximum Com Tension 1-2=-173/82, 2-3=-1 1-4=-17/80, 3-4=-17/ 2-4=-285/73	73/63											

NOTES

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

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





Job	Truss	Truss Type	Qty	Ply	Lot 121 MN	
B220017	V7	Valley	1	1	Job Reference (optional)	149887812

ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-0 7-5-13 3-1-14 4-9-2 3-1-14 1-7-4 2-8-11 3x4 = 4x4 = 2 3 1 12 8 □ 1-9-13 4 0 0-0-4 5 2x4 🍫 2x4 💊 2x4 🛚 7-11-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:13

Page: 1

Scale = 1:25.4

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

2-1-8

	, Y): [2:0-2-0,0-2-3]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/T	PI2014	CSI TC BC WB Matrix-P	0.13 0.13 0.02	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 10%
BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (I	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shee 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. b/size) 1=277/7-1 5=96/7-11 Max Horiz 1=-48 (LC Max Uplift 1=-66 (LC Max Uplift 1=-67 (LC C 3)	ept -0 max.): 2-3. applied or 10-0-0 oc 1-0, 4=258/7-11-0, -0 : 4) : 8), 4=-62 (LC 8)	d or 9) P 10) T 11) G 13 10) T 11) G 0 0 0 0 0 0 0 0 0 0 0 0 0	thord live loa This truss h on the bottom -06-00 tall b chord and an Provide mecl earing plate and 62 lb u his truss is nternational 8802.10.2 ar Graphical pu		with any d for a liv s where ill fit betw n (by oth anding 6 rdance wi sections ndard AN n does no	other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 6 lb uplift at jut th the 2018 R502.11.1 a (SI/TPI 1. ot depict the s	Dpsf om oint und					
 TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanced this design. 2) Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose 3) Truss design only. For st see Standar or consult q 4) Provide ade 5) Gable requir 	(lb) - Maximum Com Tension 1-2=-308/91, 2-3=-2: 1-5=-81/220, 4-5=-7: 3-5=-68/60 I roof live loads have E 7-16; Vult=115mph wh; TCDL=6.0psf; BC nclosed; MWFRS (en fit and right exposed ad; Lumber DOL=1.6i ned for wind loads in uds exposed to wind d Industry Gable Enn- ualified building desig- quate drainage to pro- res continuous bottor is spaced at 4-0-0 oc.	20/107, 3-4=-307/10 9/220 been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP event water ponding	Cat. e; b NO NS , le, I 1.									STATE OF J SCOT SEV NUM PE-2001	T M. HER BER 018807

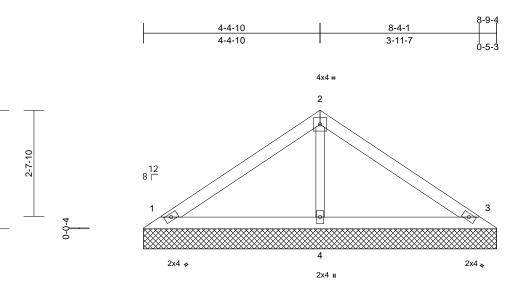


January 27,2022

Job	Truss	Truss Type		Ply	Lot 121 MN	
B220017	V8	Valley	1	1	Job Reference (optional)	149887813

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 15:07:13 ID:VW78Vr4IUH8xlb7XH?Gc5Xzd1qg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:28.6				1									
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	8) Provide mechanical connection (by bearing plate capable of withstandin 1 and 53 lb uplift at joint 3. 2x4 SPF No.2 9) 2x3 SPF No.2 9) This truss is designed in accordance International Residential Code section				hstanding 4 cordance w de sections	4 lb uplift at j ith the 2018 5 R502.11.1 a	joint						

8-9-4

TOP CHORD	OP CHORD Structural wood sheathing directly applied						
	6-0-0 oc p	ourlins.					
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc					
	bracing.						
REACTIONS	(lb/size)	1=199/8-9-4, 3=199/8-9-4,					
		4=310/8-9-4					
	Max Horiz	1=-69 (LC 4)					
	Max Uplift	1=-44 (LC 8), 3=-53 (LC 9)					
FORCES (Ib) - Maximum Compression/Maxim							
	Tonoion						

2-11-5

Tension TOP CHORD 1-2=-123/63, 2-3=-119/47 BOT CHORD 1-4=-14/58, 3-4=-14/58

- WEBS 2-4=-211/53 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 121 MN			
B220017	V9	Valley	1	1	Job Reference (optional)	149887814		

2-10-10

2-10-10

Wheeler Lumber, Waverly, KS - 66871,

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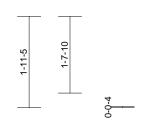
5-4-1

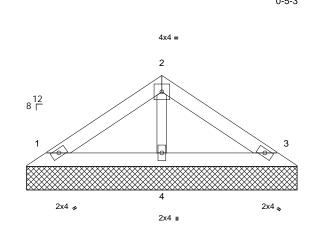
2-5-7



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5-9-4

BO

Scale = 1:24.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%
LUMBER 8) Provide mecha TOP CHORD 2x4 SPF No.2 bearing plate c								<u>.</u>				

BOT CHORD	2x4 SPF I	No.2				
OTHERS	2x3 SPF I	No.2				
BRACING						
TOP CHORD	Structura	wood sheathing directly applied or				
	5-10-0 oc	purlins.				
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc				
	bracing.					
REACTIONS	(lb/size)	1=123/5-9-4, 3=123/5-9-4,				
		4=192/5-9-4				
	Max Horiz	1=-42 (LC 4)				
	Max Uplift	1=-27 (LC 8), 3=-33 (LC 9)				
FORCES	(lb) - Maximum Compression/Maximum					

FORCES

- Tension TOP CHORD 1-2=-76/39, 2-3=-74/29
- BOT CHORD 1-4=-9/36, 3-4=-9/36 WEBS 2-4=-131/33

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.
- 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.

istanding 27 lb uplift at joint 1 and 33 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



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

