

RE: Lot 32 OS Lot 32 OS

Site Information:

Customer: Project Name: Lot 32 OS Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise]

Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145418600	A1	3/31/2021	21	I45418620	D3	3/31/2021
2	I45418601	A2	3/31/2021	22	l45418621	E1	3/31/2021
3	I45418602	A3	3/31/2021	23	l45418622	E2	3/31/2021
4	145418603	A4	3/31/2021	24	I45418623	E3	3/31/2021
5	145418604	A5	3/31/2021	25	l45418624	J1	3/31/2021
6	145418605	B1	3/31/2021	26	l45418625	J2	3/31/2021
7	145418606	B2	3/31/2021	27	I45418626	J3	3/31/2021
8	145418607	B3	3/31/2021	28	145418627	J4	3/31/2021
9	145418608	B4	3/31/2021	29	l45418628	J5	3/31/2021
10	145418609	B5	3/31/2021	30	l45418629	J6	3/31/2021
11	I45418610	B6	3/31/2021	31	I45418630	J7	3/31/2021
12	145418611	B7	3/31/2021	32	l45418631	J8	3/31/2021
13	145418612	B8	3/31/2021	33	145418632	J9	3/31/2021
14	145418613	C1	3/31/2021	34	145418633	J10	3/31/2021
15	145418614	C2	3/31/2021	35	l45418634	J11	3/31/2021
16	145418615	C3	3/31/2021	36	l45418635	J12	3/31/2021
17	l45418616	C4	3/31/2021	37	145418636	LAY1	3/31/2021
18	145418617	C5	3/31/2021	38	145418637	LAY2	3/31/2021
19	I45418618	D1	3/31/2021	39	145418638	V1	3/31/2021
20	I45418619	D2	3/31/2021	40	145418639	V2	3/31/2021

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Sevier, Scott

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

09/03/2021 10:36:08

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



RE: Lot 32 OS - Lot 32 OS

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

Site Information:

145418647

48

Proje Lot/B Addr	ect Customer: Block: ess:	Project Name: Lo	Subdivision:		
City,	County:			State:	
No.	Seal#	Truss Name	Date		
41	145418640	V3	3/31/2021		
42	145418641	V4	3/31/2021		
43	145418642	V5	3/31/2021		
44	145418643	V6	3/31/2021		
45	145418644	V7	3/31/2021		
46	145418645	V8	3/31/2021		
47	145418646	V9	3/31/2021		

V10

3/31/2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	A1	Common Supported Gable	1	1	Job Reference (optional)	145418600



Page: 1



Scale = 1:39.9

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-R							Weight: 66 lb	FT = 10%
				2	Wind ASCE	7-16: Vult=115mp	h (3-sec	cond qust)						
TOP CHORD	2x4 SPF	No 2		-	Vasd=91mpt	1: TCDL=6.0psf: B	CDL=6.0	Opsf: h=25ft: /	Cat.					
BOT CHORD	2x4 SPF	No 2			II; Exp C; En	closed; MWFRS (e	envelope	exterior zor	ne;					
WEBS	2x4 SPF	No 2			cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60									
OTHERS	2x4 SPF	No.2												
BRACING				3	3) Truss designed for wind loads in the plane of the truss									
TOP CHORD	Structura	I wood shea	athing directly applie	d or	only. For stu see Standard	ids exposed to win I Industry Gable E	d (norm nd Deta	al to the face), ble,					
	Bigid ceil	ing directly	applied or 6-0-0 oc		or consult qu	alified building des	signer a	s per ANSI/TF	PI 1.					
BOT ONORD	bracing.	ing directly		4	All plates are	2x4 MT20 unless	otherwi	se indicated.						
REACTIONS	S (size) 12=15-0-0, 13=15-0-0, 14=15-0				Gable require	es continuous botto	om chor	d bearing.						
	()	15=15-0-0	, 16=15-0-0, 17=15-	-0-0, 6	hraced again	ully sneathed from	one tac	e or securely	,					
		18=15-0-0), 19=15-0-0, 20=15-	-0-0 7	Gable stude	snaced at 2-0-0 oc	ni (i.e. u	agona web)	•					
	Max Horiz	20=172 (L	.C 7)	8	This truss ha	s been designed fo	ora 10 (anst hottom						
	Max Uplift	12=-49 (L	C 5), 13=-98 (LC 9),	U,	chord live loa	ad nonconcurrent v	vith anv	other live loa	ds.					
		14=-67 (L	C 9), 15=-72 (LC 9),	9	* This truss h	as been designed	for a liv	e load of 20.0	Opsf					
		17=-73 (L	C 8), 18=-66 (LC 8),	· · ·	on the botton	n chord in all areas	s where	a rectangle						
	Max Crow	19=-105 (LC 8), 20=-76 (LC 4)) 16)	3-06-00 tall b	y 2-00-00 wide wil	ll fit betv	veen the botto	om					
	wax Grav	12=140 (L 14=187 (l	C 15), 15=176 (LC 1 C 16), 15=196 (LC 1	10), 16)	chord and an	y other members.								
		16=197 (L	C 18) 17=190 (LC 1	15) 1	 Provide mecl 	hanical connection	(by oth	ers) of truss t	0					
		16=197 (LC 18), 17=197 (LC 15), 18=186 (LC 1), 19=190 (LC 15)				capable of withsta	anding 7	6 lb uplift at j	oint					
		20=168 (L	.C 16)	-,,	20, 49 lb upli	It at joint 12, 73 lb	uplift at	Joint 17, 66 lb	D					
FORCES	(lb) - Max	imum Com	pression/Maximum		ioint 15 67 lt	18, 105 lb upilit at	1011119, nd 98 lb	72 ID upiiit a	13					
	Tension			1	1) This truss is	designed in accord	lance w	ith the 2018	10.				000	TOP
TOP CHORD	2-20=-13	7/61, 1-2=0	/40, 2-3=-107/105,		International	Residential Code	sections	R502.11.1 a	ind				OF I	Also
	3-4=-78/8	85, 4-5=-65/	/123, 5-6=-53/158,		R802.10.2 ar	nd referenced stan	dard AN	ISI/TPI 1.				1	TIE	
	6-7=-40/1	46, 7-8=-4	5/111, 8-9=-56/76,	L	OAD CASE(S)	Standard						4	N/ man	New
	9-10=-76	/74, 10-11=	0/40, 10-12=-127/40) –		otandara						H.	s scor	I'M. YY
BOT CHORD	19-20=-7	9/85, 18-19	=-79/85, 17-18=-79/	85,								8	SEV.	ER \ X
	10-1/=-/	9/85, 15-16 0/05 40 40	=-79/85, 14-15=-79/	85,								(A)		
NERS 6 16- 157/0 5 17- 157/06 4 19- 147/04												XX		. San le the
3-19=-135/103, 7-15=-156/95, 8-14=-149/95.													OUM	En Men
9-13=-129/99												87	PE-2001	018807
NOTES		-										N	12 2001	18A
1) Unbalanced roof live loads have been considered for												X	Ser	JO'A
this design	n.												NONA	LEF

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	A2	Common	1	1	Job Reference (optional)	145418601

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:12 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 15-10-8

Page: 1



Scale = 1:42.8	
Plate Offsets (X Y)	[2.0-2-13 0-2-0] [4.0-2-13 0-2-0]

],[::::::::::::::::::::::::::::::::::::											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.66	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.15	6-7	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.06	7-8	>999	240	Weight: 49 lb	FT = 10%	

- LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x8 SP DSS *Except* 7-3:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 6=0-3-8, 8=0-3-8 Max Horiz 8=176 (LC 7) Max Uplift 6=-99 (LC 9), 8=-99 (LC 8) Max Grav 6=804 (LC 16), 8=804 (LC 15) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/46, 2-3=-792/123, 3-4=-792/123, 4-5=0/46, 2-8=-691/159, 4-6=-691/159 BOT CHORD 8-9=0/586, 7-9=0/586, 7-10=0/586, 6-10=0/586 WEBS 3-7=0/397 NOTES
- Unbalanced roof live loads have been considered for 1) 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.
- * 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 99 lb uplift at joint 8 and 99 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





Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	A3	Roof Special	3	1	Job Reference (optional)	145418602

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:14 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.43	Vert(LL)	-0.05	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	11-12	>999	240	Weight: 60 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF No.2

Scale = 1:42.2

BOT CHORD	2x4 SPF No.2 *Except* 13-3,5-9:2x6 SPF
WEBS	No.2 2x3 SPF No.2 *Except* 14-2,8-6:2x4 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 6-0-0 oc bracing.
REACTIONS	(size) 8=0-3-8, 14=0-3-8
	Max Horiz 14=-172 (LC 6)
	Max Uplift 8=-97 (LC 9), 14=-97 (LC 8)
	Max Grav 8=733 (LC 1), 14=733 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/40, 2-3=-679/91, 3-4=-786/100,
	4-5=-786/121, 5-6=-679/90, 6-7=0/40,
	2-14=-634/104, 6-8=-634/99
BOT CHORD	13-14=-101/504, 12-13=-61/22, 3-12=-25/77,
	11-12=-302/1342, 10-11=-159/1236,
	9-10=-61/21, 5-10=-25/77, 8-9=-28/442

WFBS

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

4-11=0/404, 5-11=-699/268, 3-11=-788/319

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 14 and 97 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





Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	A4	Roof Special	1	1	Job Reference (optional)	145418603

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:14 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



+230 (1



Scale = 1:42.2

Plate Offsets (X, Y): [6:Edge,0-3-8]

Load	ding		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	L (roof)		25.0	Plate Grip DOL	1.15		TC	0.43	Vert(LL)	-0.06	9-10	>999	360	MT20	197/144
TCD	L		10.0	Lumber DOL	1.15		BC	0.45	Vert(CT)	-0.12	9-10	>999	240		
BCL	L		0.0*	Rep Stress Incr	YES		WB	0.56	Horz(CT)	0.10	7	n/a	n/a		
BCD	L		10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240	Weight: 59 lb	FT = 10%
					4)	* This truss h	as been designed	l for a liv	e load of 20.	0psf					
BOT	CHORD	2x4 SPF N 2x4 SPF N No.2	lo.2 *Exce	pt* 12-3,5-8:2x6 SPF	-	3-06-00 tall b chord and an	by 2-00-00 wide wi by other members.	ll fit betw	veen the bott	om					
WEE	BS	2x3 SPF No.2 *Except* 13-2,7-6:2x4 SPF5)Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint													
BRA	CING					13 and 73 lb	uplift at joint 7.								
ТОР	CHORD	Structural 5-11-14 oc	wood shea purlins, e	athing directly applied except end verticals.	dor 6)	This truss is International	designed in accord Residential Code	dance wi sections	th the 2018 R502.11.1 a	and					
BOT	CHORD	Rigid ceilir bracing.	ng directly	applied or 6-0-0 oc	LC	R802.10.2 ar DAD CASE(S)	nd referenced stan Standard	idard AN	ISI/TPI 1.						
REA	CTIONS	(size) Max Horiz Max Uplift Max Gray	7=0-3-8, 1 13=166 (L 7=-73 (LC 7=659 (LC	3=0-3-8 C 5) 9), 13=-97 (LC 8) ; 1), 13=736 (LC 1)											
FOR	CES	(lb) - Maxir Tension	mum Com	pression/Maximum											
ТОР	CHORD	1-2=0/40, 2 4-5=-791/1 6-7=-537/7	2-3=-682/9 24, 5-6=-6 72	91, 3-4=-791/107, 574/88, 2-13=-636/10	05,										
BOT	CHORD	12-13=-11 10-11=-32 8-984/24	3/496, 11- 4/1329, 9-	12=-62/21, 3-11=-25 10=-208/1267, 62 7-852/452	/77,										~
WFF	s	4-10=-2/40)6 5-10=-7	725/287 3-10=-782/3	327									A	and
NOT	FS													F. OF M	11SS D
1) l	Jnbalance his design	ed roof live lo n.	ads have	been considered for									A	STA SCOTI	M.
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									Service						
3)	This truss	seu; ∟umber has been de	signed for	a 10.0 psf bottom	0								87	PE-20010	18807
-,													N I	J 11-20010	10001 1800

chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 31,2021

ESSIONAL E

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	A5	Common Girder	1	2	Job Reference (optional)	145418604

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:15

Wheeler Lumber, Waverly, KS - 66871,

Scale = 1:42.8



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

Loadi TCLL TCDL BCLL BCDL	ng (roof)	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.65 0.53 0.64	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.16 0.02 0.06	(loc) 4-5 4-5 4 2-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 150 lb	GRIP 197/144 FT = 10%
LUME TOP (BOT (WEBS WED(BRAC TOP (BOT (REAC	BER CHORD CHORD SE CHORD CHORD CHORD	2x4 SPF 2100F 1.8E 2x8 SP 2400F 2.0E 2x4 SPF No.2 Left: 2x4 SPF No.2 Right: 2x4 SPF No.2 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Max Horiz 2=116 (LC Max Uplift 2=-472 (L) Max Gray, 2=3923 (I)	athing directly applied applied or 10-0-0 oc = Mechanical C 5), 4=-395 (LC 9) C 13), 4=-503 (LC 1	3) 4) d or 5) 6) 7) 8)	Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; En and right exp Lumber DOL This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Refer to girde Provide mect	7-16; Vult=115mp ; TCDL=6.0psf; Br closed; MWFRS (e osed; end vertical =1.60 plate grip D s been designed for d nonconcurrent v as been designed n chord in all areas y 2-00-00 wide wil y other members, er(s) for truss to tru- nanical connection	e been of h (3-sec CDL=6.0 envelope l left and OL=1.60 or a 10.0 vith any for a liv s where l fit betw with BC uss conr (by oth	considered fo cond gust) Opsf; h=25ft; (); cantilever I right expose) D psf bottom other live loa e load of 20.0 a rectangle veen the bottw DL = 10.0psf nections. ers) of truss t	r Cat. left ds. Opsf om 5.					
FORC TOP (BOT (ES CHORD CHORD	(lb) - Maximum Com Tension 1-2=0/10, 2-3=-5266 2-6=-319/4156, 6-7= 7-8=-319/4156, 5-8= 5-9=-319/4156, 5-10 10-11=-319/4156, 11 12-13=-319/4156, 4-	9) 10	 bearing plate capable of withstanding 4/2 ib uplift at joint 2 and 395 lb uplift at joint 4. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1585 lb down and 504 lb up at 4-0-0, 1134 lb down and 80 lb up at 6-0-0, 1237 lb down and 17 lb up at 8-0-0, 1236 										
 NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.) LC 1) AD	lb down and 38 lb up at 1 14-0-0 on boo connection d DAD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-3= Concentrate Vert: 6=- 11=-1132	29 lb up at 10-0-0 2-0-0, and 1249 lb ttom chord. The d evice(s) is the resp Standard of Live (balanced): ise=1.15 ads (lb/ft) =-70, 3-4=-70, 2-4= id Loads (lb) 1545 (F), 8=-1134 (F), 12=-1132 (F)	(F), and 12 o down a esign/se ponsibili Lumber =-20 (F), 9=-1 , 13=-1	1134 (F), 134 (F), 134 (F)	nd at ch		~		NUME PE-20010	IISSOLIA ER BER D18807

March 31,2021

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B1	Flat Girder	1	1	Job Reference (optional)	145418605

Page: 1





Scale = 1:45.5

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.63 0.49 0.97	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.19 -0.35 0.06 0.20	(loc) 10 8-10 7 10	l/defl >999 >871 n/a >999	L/d 360 240 n/a 240	PLATES MT18HS MT20 Weight: 93 lb	GRIP 197/144 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E 2x3 SPF No.2 2-0-0 oc purlins (4-2- end verticals. Rigid ceiling directly s bracing. 1 Row at midpt (size) 7=0-3-8, 1: Max Horiz 12=120 (Li Max Uplift 7=-540 (LC Max Grav 7=1673 (Li (lb) - Maximum Comp Tension 1-12=-1479/528 1-11	2 max.): 1-6, except applied or 7-5-6 oc 1-11, 4-11, 4-8, 6-8 2= Mechanical C 22) C 5), 12=-492 (LC 4) C 1), 12=1565 (LC 1) pression/Maximum 3=-2570/827	1) 2) 3) 4) 5) 6) 7)	Wind: ASCE Vasd=91mph II; Exp C; Enn cantilever left right exposed Provide adec All plates are This truss ha on the botton 3-06-00 tall b chord and an Refer to girde Provide mech bearing plate joint 12 and 5	7-16; Vult=115mp ; TCDL=6.0psf; B closed; MWFRS (i and right expose ; tumber DOL=1. ; tumber D	ch (3-sec CDL=6.0 enveloped d; end v 60 plate brevent v ses other for a 10.0 with any l for a liv s where ll fit betv uss conr h (by oth anding 4 t 7.0	ond gust) Dpsf; h=25ft; exterior zoo ertical left ar grip DOL=1. water ponding wise indicate) psf bottom other live load e load of 20.0 a rectangle veen the bott nections. ers) of truss 1 92 lb uplift at the tho 2018	Cat. ne; nd 60 g. ed. nds. 0psf om to	10) Han prov lb de up a lb de up a lb de up a 104 80 ll 23-5 top 3-9- lb de 13-5 34 ll b de bott	ger(s) o vided sui own and at 3-9-10 own and at 9-9-10 own and at 15-9- Ib down b up at 20-10, and chord, a 10, 34 lb own at 20-10, 34 b down a own at b own at b own at chord, a at 10, 34 b down a b own at b ow	r other ficient 80 lb 0, 104 80 lb 0, 104 80 lb 10, 104 21-9-1 1 107 1 107 1 107 21-9-1 0 dowr 9-9-10 lb dow at 19- 23-9-1 d. The	connection devi to support conce up at 1-9-10, 10 lb down and 80 l up at 7-9-10, 10 lb down and 80 l up at 13-9-10, 1 4 lb down and 80 l up at 13-9-10, 1 4 lb down and 74 lb lb down at 1-9-1 o, and 104 lb dow b down at 1-9-1 at 5-9-10, 34 lb down at 1 m at 15-9-10, 34 9-10, 34 lb down o, and 51 lb dow o design/selection	ce(s) shall be intrated load(s) 1(4 lb down and 80 b up at 5-9-10, 1(4 lb down and 80 b up at 11-9-10, 0, 104 lb down and wn and 80 lb up at 0, 104 lb down at wn and 80 lb up a 0, 34 lb down at down at 7-9-10, 1-9-10, 34 lb dow i b down at 17-9- at 21-9-10, and 1 n at 25-8-14 on o fouch connect	04 1b 04 1b 104 0 lb 1, .nd at .nd at .nd .34 vn at -10, 34 tion
BOT CHORD WEBS	13-14=-2570/827, 14 2-15=-2570/827, 2-16 3-16=-2570/827, 2-16 3-16=-2570/827, 3-17 4-17=-2570/826, 27, 3-17 18-19=-2570/826, 5-2 21-22=-2570/826, 22 6-23=-2570/826, 6-7- 12-24=-99/110, 24-22 25-26=-99/110, 11-22 11-27=-1109/3344, 9 9-31=-1109/3344, 9 9-31=-109/344, 9 9-3	-15=-2570/827, 6=-2570/827, 7=-2570/826, -20=-2570/826, -20=-2570/826, -23=-2570/826, -25=-2570/826, -25=-2570/826, -25=-2570/826, -25=-2570/826, -2	9) ,	International R802.10.2 ar Graphical pu or the orienta bottom chord	Residential Code ad referenced star rlin representation tion of the purlin a	adoes no adard AN does no along the	ISI/TPI 1. ISI/TPI 1. of depict the s top and/or	and size	devi 11) In tr of tr LOAD C	ice(s) is ne LOAE ne truss CASE(S)	the re- 0 CASI are no Star	sponsibility of oth E(S) section, load ted as front (F) o ndard	ers. s applied to the fa back (B). MISSOLUTE M. ER D18807 L ENGT	ace

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, eraction 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



March 31,2021

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:17 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	145440005
Lot 32 OS	B1	Flat Girder	1	1	Job Reference (optional)	145418605

Run; 8,43 S Mar 22 2021 Print; 8,430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:17 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

1)	Dead + Roof Live (balanced): Lumber Increase=1.15,
	Plate Increase=1.15
	Uniform Loads (lb/ft)

Vert: 1-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 3=-44 (F), 6=-81 (F), 7=-34 (F), 9=-24 (F), Vert: 3=-44 (F), 6=-81 (F), 7=-34 (F), 9=-24 (F), 13=-44 (F), 14=-44 (F), 15=-44 (F), 16=-44 (F), 17=-44 (F), 18=-44 (F), 19=-44 (F), 20=-44 (F), 21=-44 (F), 22=-44 (F), 23=-44 (F), 24=-24 (F), 25=-24 (F), 26=-24 (F), 27=-24 (F), 28=-24 (F), 29=-24 (F), 30=-24 (F), 31=-24 (F), 32=-24 (F), 33=-24 (F), 34=-24 (F)



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B2	Flat	1	1	Job Reference (optional)	145418606







Scale = 1:49.4		<u>8-7-13</u> 8-7-13		<u>17-2-5</u> 8-6-8						<u>25-1(</u> 8-7-1	<u>0-2</u> 13	———————————————————————————————————————	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.56	Vert(LL)	-0.16	7-8	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	7-8	>923	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	7	n/a	n/a			

Wind(LL)

0.05

8-10

>999

240

Weight: 95 lb

FT = 10%

BCDL

LOWIDER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	2-0-0 oc purlins (4-3-9 max.): 1-6, 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	(size) 7=0-3-8, 11= Mechanical
	Max Horiz 11=-135 (LC 4)
	Max Uplift 7=-68 (LC 5), 11=-68 (LC 4)
	Max Grav 7=1154 (LC 1), 11=1154 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-11=-161/39, 1-2=-62/38, 2-3=-1480/64,
	3-4=-1480/64, 4-5=-1480/64, 5-6=-62/38,
	6-7=-161/39
DOT OUODD	40 44 450/4007 0 40 404/4704

10.0

Code

8-9=-164/1721, 7-8=-123/1207 WEBS 2-11=-1504/124, 2-10=0/519, 4-10=-347/98. 4-8=-347/98, 5-8=0/519, 5-7=-1504/124

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 2) 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 68 lb uplift at joint 11 and 68 lb uplift at joint 7.

Matrix-S

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

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

LOAD CASE(S) Standard

IRC2018/TPI2014



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Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B3	Half Hip	1	1	Job Reference (optional)	145418607

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Scale = 1:49.8

Plate Offsets (X, Y): [1:0-2-0,0-1-8], [6:Edge,0-1-8], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.79	Vert(LL)	-0.11	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.67	Vert(CT)	-0.21	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.52	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 101 lb	FT = 10%
			5)	* This truss h	as been designed	d for a liv	e load of 20.	0psf					
TOP CHORD	2X4 SPF No.2			2 06 00 toll b	101010 in all area	S WIIEIE	a reclarigie	om					
BOICHORD	2X4 SPF No.2			chord and an	v other members	with BC		6					
WEBS	2X3 SPF NO.2		6)	Refer to girde	r(s) for trues to tr								
BRACING	.		. 7)	Provide med	nanical connection	n (hy oth	ers) of trues	to					
TOP CHORD	4-0-3 oc purlins, exe 2-0-0 oc purlins, (3-1	athing directly applie cept end verticals, a 1-11 max): 3-5	ed or '' nd	bearing plate 6 and 5 lb up	capable of withst lift at joint 11.	anding 6	1 lb uplift at j	joint					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	c 8)	This truss is International	designed in accor Residential Code	dance wi	th the 2018 R502.11.1 a	and					
WEBS	1 Row at midpt	5-6, 3-7	0	R802.10.2 ar	nd referenced star	ndard AN	ISI/TPI 1.						
REACTIONS	(size) 6=0-3-8, 1	1= Mechanical	9)	Graphical pu	rlin representation	1 does no	ot depict the	size					
	Max Horiz 11=189 (L	-C 5)		or the orienta	luon oi the punin a	along the	top and/or						
	Max Uplift 6=-61 (LC	5), 11=-5 (LC 8)											
	Max Grav 6=1239 (L	C 2), 11=1207 (LC	2) LOA	AD CASE(S)	Standard								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-1655/21, 2-3=- 4-5=-1201/86, 5-6=-	1545/58, 3-4=-1203, 1100/93, 1-11=-113	/87, 3/27										
BOT CHORD	10-11=-174/60, 9-10 9-12=-106/1359, 8-1	e=-130/1490, 2=-106/1359,											
	7-8=-106/1359, 7-13	=-66/51, 6-13=-66/5	51										
WEBS	5-7=-78/1504, 1-10=	0/1492, 4-7=-616/1	46,									000	TO
	3-9=0/349, 3-7=-203	/38, 2-10=-287/67,										S OF M	ALCON D
	2-9=-161/87											A TE	-0.0
NOTES											a	SI	New
1) Unbalance	ed roof live loads have	been considered for	r								H	SCOTI	M. YOY
this desig	n.										R	/ SEVI	ER \ Y
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)	_								2.		_ \★Ø
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.								KX.	44	
II; Exp C;	Enclosed; MWFRS (en	off and right even	eπ										Serrer/
and right e	OL -1 60 ploto grip DO	en and right expose	a,								27		DER A
3) Provide or	dequate drainage to pr	L=1.00									N.	ON PE-20010	18807
4) This trues	has been designed for	a 10.0 nef hottom	j.								Y	NO.	154
chord live	load nonconcurrent wit	th any other live log	de									A SIDE	ENCH
	iouu nonconcurrent wi	an any other live loa	u . .									A NA	L

chord live load nonconcurrent with any other live loads.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B4	Half Hip	1	1	Job Reference (optional)	145418608

Loading

TCDL

BCLL

TCLL (roof)

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:20 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

1-4-14 7-1-14 14-3-10 25-10-2 19-11-10 1-4-14 5-9-0 7-1-12 5-8-0 5-10-8 6x6= 2x4 II 4x9= . 1-13 ⊤ 0-1-13 4 6 5 ⊠ \boxtimes \boxtimes _12 5∟ ÷ 3x4 🚅 3 6-4-11 3x10 🛥 7-6-8 7-4-11 7-4-11 Ø 6x6 🚅 2 1-7-0 ¢ 7 × è 8 11 10 15 9 16 3x4 **n** 3x4= 3x4= 3x4 = 6x8= 13 2x4 I 4x9= 3x10= 1-7-10 1-7-10 7-1-14 14-2-6 19-11-10 25-10-2 5-6-4 7-0-8 5-9-4 5-10-8 Scale = 1:58.4 Plate Offsets (X, Y): [7:Edge,0-2-8] 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) 1.15 тс 197/144 25.0 Plate Grip DOL 0.64 Vert(LL) -0.12 10-11 >999 360 MT20 10.0 BC Lumber DOL 1.15 0.69 Vert(CT) -0.24 10-11 >999 240 0.0* Rep Stress Incr YES WB 0.47 Horz(CT) 0.10 7 n/a n/a

BCDL	10.0 0	Code	IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.05 10-1	1 >999	240 Weight: 107 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 2-13:2x6 SP DSS Structural wood sheath 3-5-7 oc purlins, excep 2-0-0 oc purlins (5-6-9 Rigid ceiling directly ap bracing. 1 Row at midpt 6- (size) 7=0-3-8, 14= Max Horiz 14=221 (LC Max Uplift 7=-60 (LC 5) Max Grav 7=1234 (LC	* 14-1:2x4 SPF No.2 hing directly applied o pt end verticals, and max.): 4-6. oplied or 9-7-10 oc 7, 4-8, 3-10 = Mechanical 5)), 14=-17 (LC 8) 2), 14=-1198 (LC 2)	4) Th ch 5) * - 5) * - ch or 6) Ri be 7) Pi be 7 8) Th in R: 9) G or 9) G or be LOAD	his truss has nord live loa This truss has n the bottom of and an efer to girde rovide mech earing plate and 17 lb up his truss is of ternational I 802.10.2 an raphical pur the orienta ottom chord.	been designed for a 10.0 d nonconcurrent with any as been designed for a liv chord in all areas where y 2-00-00 wide will fit betw y other members, with BC r(s) for truss to truss conr anical connection (by oth capable of withstanding 6 blift at joint 14. lesigned in accordance wi Residential Code sections d referenced standard AN lin representation does no tion of the purlin along the Standard	b) psf bottom other live loads e load of 20.0p a rectangle veen the botton DL = 10.0psf. nections. ers) of truss to 0 lb uplift at joi ith the 2018 R502.11.1 and [SI/TPI 1. of depict the size top and/or	s. Insf Int d			
FORCES	(lb) - Maximum Compre Tension	ession/Maximum		(0)						
TOP CHORD	1-2=-864/22, 2-3=-221 4-5=-942/74, 5-6=-940, 1-14=-1157/25	2/63, 3-4=-1482/48, /72, 6-7=-1122/84,								
BOT CHORD	13-14=-206/38, 11-12= 10-11=-150/1996, 10-1 9-15=-102/1284, 8-9=- 8-16=-71/54, 7-16=-71/	=-371/1706, 15=-102/1284, 102/1284, /54							STE OF	MISS
WEBS	6-8=-69/1355, 1-13=-3 12-13=-806/33, 2-12=- 4-10=0/578, 5-8=-481/ 3-11=0/255, 3-10=-774	5/1110, 751/58, 2-11=0/409, 115, 4-8=-509/41, 4/112							STATUS SCOT	TT M. VIER
NOTES									856	
1) Unbalance	ed roof live loads have be	een considered for							8 Lla the	hand
this design									N COURT	and shares
 Wind: ASC Vasd=91rr II; Exp C; I and right e Lumber D 	UE 7-16; Vult=115mph (3 hph; TCDL=6.0psf; BCDL Enclosed; MWFRS (enve exposed ; end vertical left OL=1.60 plate grip DOL=	B-second gust) _=6.0psf; h=25ft; Cat elope); cantilever left t and right exposed; =1.60							PE-200	AL ENGINE
Provide ac	dequate drainage to preve	ent water ponding.							Marc	h 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B5	Нір	1	1	Job Reference (optional)	145418609

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:21

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Page: 1

Wheeler Lumber, Waverly, KS - 66871,



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

Scale = 1:65

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.84 0.90 0.71	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.44 0 12	(loc) 7-8 7-8 7	l/defl >999 >703	L/d 360 240 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S	0.11	Wind(LL)	0.05	10-11	>999	240	Weight: 109 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 2-12:2x6 SP DSS Structural wood shea 2-9-14 oc purlins, e: 2-0-0 oc purlins (4-1 Rigid ceiling directly bracing, Except: 8-8-5 oc bracing: 10 1 Row at midpt (size) 7=0-3-8, 1 Max Horiz 13=243 (L Max Uplift 7=-37 (LC Max Grav 7=1235 (L (lb) - Maximum Com Tension 1-2=-892/40, 2-3=-21	ept* 13-1:2x4 SPF No athing directly applie xcept end verticals, a 1-2 max.): 4-5. applied or 10-0-0 oc -11. 3-8, 5-7, 2-10 13= Mechanical LC 5) 5 (), 13=-26 (LC 8) .C 2), 13=-26 (LC 8) .C 2), 13=1191 (LC 2) pression/Maximum 035/77, 3-4=-1133/6	4) 5) 5) 2, 2 3 3 3 3 3 3 9) 2) 4,	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 13 and 37 lb This truss is International R802.10.2 ar Graphical pu or the orienta bottom chore DAD CASE(S)	s been designed for da nonconcurrent w has been designed in chord in all areas y 2-00-00 wide wil y other members, ar(s) for truss to tru- nanical connection capable of withsta uplift at joint 7. designed in accord Residential Code s and referenced stan rlin representation tion of the purlin a Standard	or a 10.0 vith any for a liv where I fit betw with BC iss conr (by oth anding 2 dance wi sections dard AN does no long the) psf bottom other live loa e load of 20. a rectangle veen the bott DL = 10.0ps ers) of truss 6 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the top and/or	ads. Opsf om f. to joint and size						
	4-5=-960/85, 5-6=-10 6-7=-77/44	09/80, 1-13=-1150/3	34,											
BOT CHORD	12-13=-224/38, 10-1 9-10=-121/1802, 8-9 8-14=-69/295, 14-15	1=-432/1881,)=-121/1802, 5=-69/295, 7-15=-69/	295									E OF A	AISSO	
WEBS	3-10=0/346, 3-8=-96 5-8=-29/1038, 1-12= 5-7=-1093/116, 11-1 2-11=-856/114, 2-10	60/128, 4-8=-107/129 93/1262, 2=-923/75,)=-144/313	9,									ST SCOTT	M. ER	2
NOTES											2			
 Unbalance this design Wind: ASG Vasd=91n II; Exp C; and right e Lumber D Provide ad 	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I OL=1.60 plate grip DO denuate drainage to pr	been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope); cantilever li left and right expose iL=1.60 event water population	Cat. eft d;								A A A	NUME PE-20010	ER DI8807	P

3) Provide adequate drainage to prevent water ponding.





March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B6	Roof Special	1	1	Job Reference (optional)	145418610

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:21

Wheeler Lumber, Waverly, KS - 66871,



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

Scale = 1:66.1

		-											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.73	Vert(LL)	-0.13	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.72	Vert(CT)	-0.24	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.75	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/	/TPI2014	Matrix-S		Wind(LL)	0.08	11-12	>999	240	Weight: 111 lb	FT = 10%
	2x4 SPE No 2		4)	* This truss h	as been designed	l for a liv s where	e load of 20.0 a rectangle	Opsf					
BOT CHORD	2x4 SPF No 2 *Exce	ont* 14-2:2x6 SP DS	S	3-06-00 tall b	v 2-00-00 wide wi	ill fit betw	een the botto	om					
WEBS	2x3 SPF No.2	pt 11 2.2x0 01 00	0	chord and an	y other members,	with BC	DL = 10.0psf	f.					
BRACING			5)	Refer to girde	er(s) for truss to tru	uss conr	ections.						
TOP CHORD	Structural wood shea 3-7-8 oc purlins, exe	athing directly applie cept end verticals.	d or 6)	Provide mech bearing plate	hanical connection capable of withst	n (by oth anding 1	ers) of truss t 71 lb uplift at	t o t					
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc	7)	joint 15 and This truss is	170 lb uplift at joint designed in accord	t 8. dance wi	ith the 2018						
WEBS	1 Row at midpt	7-8, 5-9, 3-11		International	Residential Code	sections	R502.11.1 a	and					
REACTIONS	(size) 8=0-3-8, 1	15= Mechanical		R802.10.2 ar	na referencea star	idard AN	151/TPI T.						
	Max Horiz 15=308 (L	_C 5)	LO	AD CASE(S)	Standard								
	Max Uplift 8=-170 (L	C 8), 15=-171 (LC 8)										
	Max Grav 8=1240 (L	_C 2), 15=1202 (LC 2	2)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-868/128, 2-3=-2	2218/367,											
	3-4=-1484/240, 4-5=	-1340/257,											
	5-6=-707/174, 6-7=-	671/195, 7-8=-1146/	203,										
	1-15=-1193/189	4 004/400											
BOT CHORD	14-15=-293/45, 13-1	4=-694/102,											
	2-13=-033/133, 12-1	3=-010/1044, 1-16207/1208											4 maga -
	10-16=-207/1298 9-	-10=-207/1298										COURT	and the
	9-17=-95/72. 8-17=-	95/72										OF N	liso
WEBS	7-9=-128/961. 1-14=	-147/1025. 6-9=-31/	233.								1	750	-00, W
	2-12=0/334, 5-9=-10	16/278, 3-12=0/263	,								R	N SCOTT	May M
	3-11=-766/239, 5-11	=-13/591									R		
NOTES												SEVI	
1) Unbalance	ed roof live loads have	been considered for									NO~	1	
this desigr	າ.										YK ,		Ler Man
2) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)								~ >		NUMI	ER S
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat.								N	>> PE-20010	18807
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zon	e;								N	The second	12A
cantilever	left and right exposed	; end vertical left and	t								X	1050	C A
right expo	sed; Lumber DOL=1.6	U plate grip DOL=1.6	50									ONA	LETA
 I his truss 	nas been designed for	th any other live last	40									an	The second
chora live	ioau nonconcurrent Wi	un any other live load	15.										

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B7	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)	145418611

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:22 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-2-2,Edge], [4:0-4-8,Edge], [14:0-5-8,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.89 0.90 0.71	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.35 -0.62 0.23 0.24	(loc) 12-13 12-13 8 12-13	l/defl >948 >540 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 489 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES	2x4 SPF No.2 *Exce 2.0E 2x6 SP 2400F 2.0E 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=0-3-8, 8 Max Horiz 1=312 (LC Max Uplift 1=-571 (L Max Grav 1=6062 (I (Ib) - Maximum Com	ept* 1-4:2x6 SP 2400 ept* 14-13:2x4 SPF N athing directly applie cept end verticals. applied or 10-0-0 oc 8=0-3-8 C 26) C 8), 8=-212 (LC 8) LC 18), 8=-662 (LC 2) appression/Maximum	3) No.2 4) ed or 5) c 6) 2) 7)	All loads are except if note CASE(S) sec provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right exposed This truss ha chord live loa * This truss f on the bottor	considered equall ed as front (F) or b ztion. Ply to ply con listribute only load wise indicated. roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; B closed; MWFRS (it and right expose d; Lumber DOL=1. Is been designed f ad nonconcurrent to has been designed n chord in all areas	y applie, ack (B) i nnection s noted i re been o h (3-sec CDL=6.0 envelope d ; end v .60 plate or a 10.0 with any I for a liv s where	d to all plies, face in the LC s have been as (F) or (B), considered fc ond gust))psf; h=25ft; exterior zo rertical left ar grip DOL=1.) psf bottom other live loa e load of 20.0 a rectangle	OAD or Cat. ne; nd .60 ads. Opsf						
TOP CHORD	1-2=-1914/72, 2-3=- 3-4=-2322/311, 4-5= 5-6=-994/202, 6-7=-	5674/725, =-2200/342, 965/225, 7-8=-1584/	8) '249	3-06-00 tall to chord and and Provide mech bearing plate	by 2-00-00 wide wi by other members, hanical connection capable of withsta	ll fit betv with BC າ (by oth anding 5	veen the bott DL = 10.0psi ers) of truss t 71 lb uplift at	iom f. to t						
BOT CHORD WEBS	1-15=0/0, 14-15=0/0 12-13=-801/5427, 1 11-16=-277/2003, 9-1 13-14=-234/2883, 3 3-11=-3725/570, 5-1 5-9=-1618/333, 6-9=), 2-13=-801/5427, 1-12=-801/5427, 0-16=-277/2003, 17=-97/72, 8-17=-97/ -12=-59/1598, 11=-105/1407, 45/426, 7-9=-176/1	9) 72 390	joint 1 and 2 ^o This truss is International R802.10.2 ar Use Simpsor 8-16d Truss) connect truss	12 Ib uplift at joint a designed in accorr Residential Code nd referenced star of Strong-Tie HGUS or equivalent at 1 s(es) to front face	8. dance w sections idard AN S26-2 (2 -11-14 fi of bottor	ith the 2018 R502.11.1 a ISI/TPI 1. 0-16d Girder rom the left e	and , end to				TE OF M	AISSOL	`
NOTES			11) Fill all nail ho	bles where hanger	is in cor	tact with lum	nber.			B	SCOT	M.	0
1) N/A			LC 1)	Dead + Por	Standard	Lumber	Increase-1	15			Ø:	SEVI	ER Y	Ň.
 3-ply trus: (0.131"x3 Top chord staggered row at 0-5 Bottom ct staggered Web conr 1 row at 0 	s to be connected toge ") nails as follows: ds connected as follows d at 0-9-0 oc, 2x4 - 1 ro 9-0 oc. nords connected as foll d at 0-4-0 oc. nected as follows: 2x4 - 0-9-0 oc.	ther with 10d s: 2x6 - 2 rows w at 0-9-0 oc, 2x3 - · ows: 2x6 - 3 rows · 1 row at 0-9-0 oc, 2	1) x3 -	Plate Increa Uniform Loz Vert: 1-6 Concentrate Vert: 15=	se=1.15 ads (lb/ft) =-70, 6-7=-70, 1-1 ed Loads (lb) 4820 (F)	4=-20, 8	-13=-20	10,				PE-20010 PE-20010 March	218807	



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	B8	Roof Special	2	1	Job Reference (optional)	145418612

Scale = 1:71.9

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:22 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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

Loading TCLL (roof) TCDL BCLL	(ps 25. 10. 0.	f) .0 .0 .0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.83 0.89 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.38 -0.66 0.31	(loc) 13-14 13-14 9	l/defl >871 >502 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.	.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.31	13-14	>999	240	Weight: 139 lb	FI = 10%
LUMBER TOP CHOR	D 2x4 SPF No.2 *I	Excep	ot* 1-5:2x6 SP 2400	4) F	* This truss h on the botton 3-06-00 tall b	as been designed n chord in all area w 2-00-00 wide wi	l for a liv s where ill fit betw	e load of 20.0 a rectangle	Opsf om					
BOT CHOR	D 2x4 SPF No.2 *I	Excep	ot* 3-11:2x6 SPF 16	50F 5)	chord and an Provide mech	y other members,	with BC	DL = 10.0psi	f.					
WEBS BRACING TOP CHOR	2x3 SPF No.2 D Structural wood	shea	thing directly applied	d or 6)	bearing plate joint 2 and 18 This truss is o	capable of withst 36 lb uplift at joint designed in accorr Residential Code	anding 2 9. dance wi	14 lb uplift at	and					
BOT CHOR	3-11-13 oc purli D Rigid ceiling dire bracing.	ns, e ectly a	except end verticals. Applied or 10-0-0 oc	L	R802.10.2 ar	nd referenced star Standard	ndard AN	ISI/TPI 1.						
WEBS	1 Row at midpt	4	1-12, 6-10, 8-9											
REACTION	Max Horiz 2=31 Max Uplift 2=-21 Max Grav 2=13	5-6, 9≡ 8 (LC 14 (LC 84 (LC	5) 5) 2 8), 9=-186 (LC 8) C 2), 9=1343 (LC 2)											
FORCES	(lb) - Maximum Tension	Comp	pression/Maximum											
TOP CHOR	D 1-2=0/6, 2-3=-78 4-5=-1708/259, 6-7=-776/184, 7	87/0, 3 5-6=- 2-8=-7	3-4=-3125/512, 1561/290, 43/207, 8-9=-1244/2	220										
BOT CHOR	D 2-15=0/0, 3-14= 12-13=-591/289 11-16=-230/147 10-17=-95/72, 9	-591/ 6, 11- 6, 10- -17=-	2896, 13-14=-591/2 -12=-227/1482, -16=-230/1476, 95/72	896,									GE OF M	AISS
WEBS	14-15=0/104, 4- 6-12=-58/844, 6 7-10=-34/271, 8	13=0/ -10=- -10=-	/471, 4-12=-1545/39 1174/294, 146/1060	93,								Ê	STATU SCOTT	M. R.
NOTES												11 +		₩ \ + 8
 Unbalar this des Wind: A 	nced roof live loads h ign.	nave t	been considered for										the	Son and
Vind: A Vasd=9 II; Exp (cantilev	1mph; TCDL=6.0psf ; Enclosed; MWFR er left and right expo	S (env	DL=6.0psf; h=25ft; C velope) exterior zone end vertical left and	at. e; I							· ·	A.	PE-20010	018807 E
3) This tru chord li	ss has been designe load nonconcurre	= 1.60 ed for nt with	a 10.0 psf bottom h any other live load	ls.									March	31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C1	Roof Special	2	1	Job Reference (optional)	145418613

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:22 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.7

Plate Offsets (X, Y): [2	2:0-3-15,0-1-6], [16:0-2-8,0-2-0],	, [19:0-2-8,0-1-8], [20:0-2-8,0-2-0], [21:0-	7-8,0-3-0]
--------------------------	------------------------------------	--	------------

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	3/TPI2014	CSI TC BC WB Matrix-S	0.95 0.94 0.89	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.43 -0.76 0.30 0.33	(loc) 20-21 20-21 15 20-21	l/defl >962 >548 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 164 lb	GRIP 197/144 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 *Excep 1.8E 2x4 SPF 2100F 1.8E DSS, 14-13,18-15:2x 2x3 SPF No.2 *Excep 13-11:2x6 SPF No.2 Structural wood shea 2-2-0 oc purlins, exc Rigid ceiling directly a bracing. 1 Row at midpt (size) 2=0-3-8, 12 Max Horiz 2=201 (LC Max Uplift 2=-253 (LC Max Classical Sector 10, 12 Max Grassical Sector 10, 12 Max Grassical Sector 10, 12 Sector 10, 12 Max Horiz 2=101 (LC Max Classical Sector 10, 12 Sector 10, 12 Sect	et* 1-5:2x4 SPF 210(*Except* 2-21:2x8 S 4 SPF No.2 ot* 21-3:2x4 SPF No athing directly applied rept end verticals. applied or 2-2-0 oc 3-20, 4-19, 6-17 5=0-3-8, (req. 0-3-13 : 8) C 8), 15=-304 (LC 5) C 2), 15=-2436 (LC 5)	2))))))))))))))	Wind: ASCE Vasd=91mph II; Exp C; Enc cantilever leff right exposed All plates are This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an WARNING: F than input be Bearing at joi using ANSI/T designer sho	7-16; Vult=115mpl a; TCDL=6.0psf; BC closed; MWFRS (et and right exposed d; Lumber DOL=1.0 MT20 plates unlet s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members, Required bearing s aring size. Int(s) 2, 15 conside PI 1 angle to grain uld verify capacity	h (3-sec CDL=6.0 nvelope 1; end v 60 plate ss other or a 10.0 vith any for a liv s where I fit betw with BC ize at jo ers para formula of bear	ond gust) opsf; h=25ft; () exterior zor ertical left an grip DOL=1.1 wise indicate) psf bottom other live loa: e load of 20.0 DL = 10.0psf int(s) 15 great lel to grain va a. Building ng surface.	Cat. ne; d 60 d. ds. Opsf ter alue						
FORCES	(lb) - Maximum Comp Tension	pression/Maximum	, 8)	bearing plate	capable of withsta	(by our inding 2 5.	53 lb uplift at	0						
TOP CHORD	1-2=0/9, 2-3=-7038/1 4-5=-2401/376, 5-6=- 6-7=-1484/288, 7-8=- 8-9=-1014/203, 9-10= 10-11=-225/810, 11-	252, 3-4=-3629/575, -2301/392, -1480/306, =-1129/179, 12=0/30, 11-13=-9/1	9) 10 LC	This truss is International R802.10.2 ar AD CASE(S)	designed in accord Residential Code s ad referenced stand Standard	lance w sections dard AN	th the 2018 R502.11.1 a SI/TPI 1.	nd					an	
BOT CHORD	2-21=-1327/6477, 20 19-20=-606/3333, 18 17-18=-313/2138, 17 16-22=-62/975, 15-10 14-15=-2355/337, 10 13-14=-635/241	-21=-1202/5780, -19=-313/2138, -22=-62/975, 6=-631/244, -14=-2185/357,	SU OT WI AR OF	IPPLEMENTAR THER MEANS TO DTH (SUCH AS E THE RESPON THE BUILDING	Y BEARING PLATES O ALLOW FOR THE COLUMN CAPS, BE NSIBILITY OF THE T & DESIGNER.	, SPECI MINIMU ARING RUSS M	AL ANCHORAG M REQUIRED BLOCKS, ETC. ANUFACTURE	ge, or Suppof .) Er	RT	J	Ba	STATE OF A	M. ER	
WEBS	3-21=-334/2058, 3-20 4-20=0/561, 4-19=-13 6-17=-1191/303, 7-13 8-17=-52/461, 8-16=- 10-16=-135/1913	0=-2468/601, 311/321, 6-19=-47/79 7=-107/762, -864/148,	98,							6	A PARA	NUME PE-20010	BER 18807	ノ

NOTES

 Unbalanced roof live loads have been considered for this design.

March 31,2021

JONAL



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C2	Нір	1	1	Job Reference (optional)	145418614

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:23 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:79.3

Plate Offsets	(X, Y): [2:0-3-15,0-1-6],	, [7:0-6-0,0-1-5], [13	3:0-3-4,0-2	-8], [20:0-2-8,0	-2-0], [21:0-7-8,0	-3-0]							
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	0.78 0.93	DEFL Vert(LL) Vert(CT)	in -0.43 -0.75	(loc) 20-21 20-21	l/defl >980 >557	L/d 360 240	PLATES MT20 M18SHS	GRIP 197/144 197/144
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2018	8/TPI2014	WB Matrix-S	0.96	Horz(CT) Wind(LL)	0.30 0.31	15 20-21	n/a >999	n/a 240	Weight: 175 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 *Excep 1.8E 2x4 SPF 2100F 1.8E DSS, 14-13,17-15:2x- 2x3 SPF No.2 *Excep 13-11:2x6 SPF No.2 Structural wood shea 2-2-12 oc purlins, ex 2-0-0 oc purlins (4-0-	ot* 1-5:2x4 SPF 210 *Except* 2-21:2x8 + 4 SPF No.2 ot* 21-3:2x4 SPF No thing directly applie cept end verticals, a 12 max.): 7-8.	N(00F 1) SP 2) 0.2, and 4) 5)	DTES Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose Provide adec All plates arc This truss ha chord live loa	roof live loads ha 7-16; Vult=115m r; TCDL=6.0psf; I closed; MWFRS t and right expose d; Lumber DOL=1 quate drainage to 9 MT20 plates uni ls been designed ad nonconcurrent	ve been of ph (3-sec 3CDL=6.1 (envelope ad; end v .60 plate prevent v ess other for a 10.0 with any	considered fc cond gust) Dpsf; h=25ft; e) exterior zo vertical left ar grip DOL=1. water pondin wise indicate D psf bottom other live loa	or Cat. ne; nd .60 g. ed. ads.					
BOT CHORD	Rigid ceiling directly a bracing.	applied or 2-2-0 oc	6)	* This truss h	as been designe	d for a liv	e load of 20.	0psf					
WEBS	1 Row at midpt 3 (size) 2=0-3-8, 15 Max Horiz 2=177 (LC Max Uplift 2=-238 (LC Max Gray 2=1611 (10	3-20, 4-19, 7-16, 9-7 11-14 5=0-3-8, (req. 0-3-1 8) C 8), 15=-355 (LC 5 C 2), 15=2448 (LC 5	15, ³⁾ 7)) 8)	on the bottor 3-06-00 tall to chord and ar WARNING: I than input be Bearing at jo	n chord in all area by 2-00-00 wide w by other members Required bearing earing size. int(s) 2 considers	as where rill fit betw , with BC size at jo parallel t	a rectangle veen the bott DL = 10.0ps int(s) 15 grea to grain value	om f. ater					
FORCES	(lb) - Maximum Comp	pression/Maximum	-,	designer sho	ould verify capacit	y of bear	ng surface.						
TOP CHORD	1-2=0/9, 2-3=-7003/1 4-5=-2373/327, 5-6=- 6-7=-2305/430, 7-8=- 8-9=-1394/211, 9-10= 10-11=-244/850, 11-1	140, 3-4=-3625/524 -2274/342, -1247/214, =-151/727, 12=0/30, 11-13=-20	4, 9) 10 /126) This truss is International R802 10 2 and	capable of withs capable of withs 55 lb uplift at joint designed in acco Residential Code	n (by oth tanding 2 15. rdance w sections	ers) of truss 38 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1	to t and				TE OF M	AISSOL
BOT CHORD	2-21=-1199/64/4, 20 19-20=-535/3331, 18- 17-18=-133/1702, 17- 16-22=-133/1702, 16- 23-24=-27/656, 15-24 14-15=-626/198, 10-1 13-14=-119/316 3-21=-297/2045, 3-20 4-20=0/568, 4-19=-13 7-19=-278/1043, 7-18 8-16=-74/243, 9-16=- 9-15=-2080/260, 11-1	-21=-1085/5750, -19=-133/1704, -22=-133/1702, -23=-27/656, 4=-27/656, 14=-469/212, 0=-2440/554, 343/324, 6-19=-313 3=0/187, 7-16=-725 60/948, 14=-1013/354	11 LC /196, /158,) Graphical pu or the orienta bottom chorc DAD CASE(S)	rlin representation rlin of the purlin d. Standard	n does no along the	t depict the stop and/or	size		4		SCOTT SEVI NUM PE-20010	ER BER D18807

March 31,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C3	Нір	1	1	Job Reference (optional)	145418615

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:24 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67

Plate Offsets (X, Y): [2:0-3-15,0-1-6], [7:0-6-0,0-1-5], [16:0-2-8,0-1-8], [17:0-2-8,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.80 0.92 0.81	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.39 -0.73 0.31 0.21	(loc) 17-18 17-18 10 17-18	l/defl >999 >572 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 161 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS TOP CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SPF 2100F 1.8E No.2 2x3 SPF No.2 *Exce 18-15:2x4 SPF 2100 SPF No.2 2x3 SPF No.2 *Exce 10-9:2x4 SPF No.2 Structural wood shea 2-2-8 oc purlins, exc 2-0-0 oc purlins (4-5- Rigid ceiling directly bracing. 1 Row at midpt (size) 2-0-3-8, 1 Max Horiz 2=150 (LC Max Uplift 2=-28 (LC Max Grav 2=1634 (L (lb) - Maximum Com Tension 1-2=0/9, 2-3=-7179/1 4-5=-2510/60, 5-6=-2	*Except* 7-9:2x4 SF pt* 2-18:2x8 SP DSS F 1.8E, 14-12,11-10: pt* 18-3:2x6 SPF No athing directly applied cept end verticals, an -4 max.): 5-7. applied or 2-2-0 oc 3-17, 4-16 0= Mechanical 2-5) -8), 10=-19 (LC 5) .C 1), 10=1561 (LC 1 pression/Maximum 167, 3-4=-3693/53, 2140/100,	2) 5, 2x4 3), 2x, 4) 5) d or 6) d 7) 8) 9) 10, 11	Wind: ASCE Vasd=91mph II; Exp C; Enn and right exp Lumber DOL Provide adeo All plates are This truss ha chord live loa * This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall bb chord and an Refer to girdd Bearing at joi using ANSI/T designer sho Provide mech bearing plate 2 and 19 lb u) This truss is a International R802.10.2 ar) Graphical pu	7-16; Vult=115mpf ; TCDL=6.0psf; BC closed; MWFRS (e osed; end vertical =1.60 plate grip DC uate drainage to p MT20 plates unles s been designed fc d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. gr(s) for truss to tru nt(s) 2 considers p PI 1 angle to grain uld verify capacity nanical connection capable of withsta plift at joint 10. designed in accord Residential Code s d referenced stand fin representation	n (3-sec CDL=6.0 nvelope left and DL=1.60 revent v ss other of a liv where fit betw ss conr arallel t formula of beari (by oth nding 2 ance w sections dard AN does nd	ond gust) opsf; h=25ft; (); cantilever I d right expose vater ponding wise indicated) psf bottom other live load e load of 20.0 a rectangle veen the botto nections. o grain value a. Building ng surface. ers) of truss ta 8 lb uplift at jo ith the 2018 R502.11.1 a R502.11.1 a to depict the s	Cat. eft d; i. d. ds. ipsf opint nd					200
BOT CHORD WEBS NOTES 1) Unbalanc	6-7=-2140/101, 7-8= 9-10=-1516/33 2-18=-230/6602, 17- 16-17=-91/3387, 15- 14-15=0/138, 6-15=- 12-13=-16/29, 11-12 10-11=-43/34 3-18=-13/2083, 3-17 4-16=-1281/123, 5-1 13-15=-58/994, 7-15 7-13=-403/107, 11-1 9-11=-26/1349 ed roof live loads have	-945/75, 8-9=-979/56 18=-213/5707, 16=-66/2213, 558/121, 13-14=0/10 =-28/0, 8-11=-141/67 =-2342/156, 4-17=0/ 6=0/669, 5-15=-151/ =-62/1393, 3=-24/1122, 7-11=-5 been considered for	5, D6, 7, 488, 144, 92/0,	or the orienta bottom chord AD CASE(S)	tion of the purlin al Standard	ong the	top and/or				* 11	State OF M Scott SEVII PE-20010 PE-20010	MISSOLPH ER 18807

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

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C4	Нір	1	1	Job Reference (optional)	145418616

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:24 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

35-0-0 32-3-10 3-6-4 6-11-7 13-3-10 17-5-1 26-8-4 31-8-12 21-7-12 0-6-14 2-8-6 3-6-4 3-5-3 6-4-2 4-1-7 4-2-11 5-0-8 5-0-8 6x6 = 4x9 =3x4 = 2x4 u 4x9 =2x4 u 1-13 H 0-1-13 6-2-8 5 ⊳6 7 8 9 10 5¹² 2x4 II \bowtie \boxtimes \square \mathbf{x} \square 11 3x4 🚅 4 6-2-11 6-0-11 6-0-11 4-1-0 6x8 🚽 3 12 1-0-0 1-0-0 0-8-0 20 19 18 14 4x5 = 3x10= 3x10= 15 7x12= 2x4 II 5x12 🚽 6x8= 2x4 II 6x12 = M18SHS 6x14 = 」4 12 0-3-8 H 0-3-8 <u>35-0-0</u> 3-3-8 6-11-7 13-2-6 21-6-8 26-8-4 31-10-0 3-0-0 3-7-15 6-2-14 8-4-2 5-1-12 5-1-12 3-2-0

Scale = 1:66.9

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.80 0.94 0.59	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.33 -0.65 0.29 0.18	(loc) 19-20 17-18 12 19-20	l/defl >999 >639 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 157 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 *Exce 1.8E 2x3 SPF No.2 *Exce 20-17:2x4 SPF 2100 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (3-4	ept* 1-5:2x4 SPF 210 ept* 2-20:2x8 SP DSS DF 1.8E, 16-14,13-12 ept* 20-3:2x6 SPF No athing directly applie cept end verticals, ar I-1 max.): 5-10.	1) 10F 2) S, 1:2x4 2.2 2.2 3) 1.2 2.3 3) 2.3 3) 2.3 3) 2.3 3) 2.3 3) 3.4 3.5 3.5 3.5 4.3 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; Enn and right exp Lumber DOL Provide adec All plates are This truss ha chord live loa	roof live loads have 7-16; Vult=115mpl ; TCDL=6.0psf; B(closed; MWFRS (e osed; end vertical =1.60 plate grip Do uate drainage to p MT20 plates unles s been designed fo d nonconcurrent w	e been o h (3-sec CDL=6.0 nvelope left and DL=1.60 revent o ss other or a 10.0 vith any	considered fo ond gust) Opsf; h=25ft; (); cantilever l right expose) vater ponding wise indicate) psf bottom other live loap	r Cat. left bd; J. d. ds.					
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 19 6-0-0 oc bracing: 15	applied or 10-0-0 oc -20 -16.	; 6)	* This truss h on the botton 3-06-00 tall b chord and an	as been designed n chord in all areas y 2-00-00 wide wil y other members.	for a liv where I fit betv	e load of 20.0 a rectangle veen the botto)pst om					
WEBS REACTIONS	1 Row at midpt (size) 2=0-3-8, Max Horiz 2=148 (LC Max Uplift 2=-16 (LC Max Grav 2=1636 (4-18, 8-13, 10-12 12= Mechanical C 5) C 4), 12=-50 (LC 5) C 1) 12=1563 (LC 1	7) 8) 1) 9)	Refer to girde Bearing at joi using ANSI/T designer sho Provide mech	er(s) for truss to tru int(s) 2 considers p PI 1 angle to grain uld verify capacity nanical connection	oarallel f formula of bear (by oth	ections. o grain value a. Building ng surface. ers) of truss to	0					
FORCES	(lb) - Maximum Com	pression/Maximum	.,	2 and 50 lb u	capable of withsta plift at joint 12.	inding 1	6 lb uplift at j	oint					
TOP CHORD	1-2=0/9, 2-3=-6997/ 4-5=-3001/75, 5-6=- 7-8=-2704/123, 8-9= 10-11=-63/53, 11-12	145, 3-4=-4212/71, 2681/82, 6-7=-2714/ 946/79, 9-10=-943/ 2=-75/30	10 121, 78, 11	 I his truss is a International R802.10.2 ar Graphical pu or the orienta 	designed in accord Residential Code s ad referenced stan rlin representation ition of the purlin a	lance w sections dard AN does no long the	R502.11.1 a ISI/TPI 1. t depict the s top and/or	nd ize			Å	ATE OF M	AISSOL
BOT CHORD	2-20=-265/6418, 19 18-19=-158/3899, 1 16-17=0/88, 7-17=-3 14-15=-2/89, 13-14= 12-13=-58/790	-20=-236/5553, 7-18=-151/2841, 315/75, 15-16=-25/52 =0/89, 9-13=-167/68,	_{2,} LC	bottom chord DAD CASE(S)	Standard	-	-			٦			M. P.
WEBS	3-20=-44/2012, 4-18 6-18=-422/79, 6-17= 15-17=-68/1717, 8- 8-15=-559/104, 13- 8-13=-1100/39, 10- 10-12=-1636/72, 4-	3=-1280/123, 5-18=0/ 198/52, 17=-58/1333, 15=-91/1679, 13=-59/1318, 19=0/452, 3-19=-1702	/790, 2/79								A Star	NUME PE-20010	ER 118807
NOTES												ma	

March 31,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C5	Half Hip Girder	1	2	Job Reference (optional)	145418617

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:26 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:68.7

Plate Offsets	(X, Y): [2:0-3-15,0-1-6], [5:0-3-8,0-1-8], [16	5:0-8-12,E	dge], [17:Edge,	,0-3-8], [19:0-3-8	8,0-2-0]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	18/TPI2014	CSI TC BC WB Matrix-S	0.84 0.97 0.88	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.50 -0.91 0.39 0.37	(loc) 17 17 11 17	l/defl >825 >458 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 421 lb	GRIP 197/144 197/144 FT = 10%		
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF 2100F 1.8E 2x6 SP 2400F 2.0E DSS, 17-7,8-14,13-9 2x4 SPF No.2 Structural wood she 4-0-8 oc purlins, ex 2-0-0 oc purlins (4-3	*Except* 2-20:2x8 S 9:2x4 SPF No.2 athing directly applie cept end verticals, ar -6 max.): 4-10.	W P Ind or N Ind 1	VEBS	3-20=-452/3246 4-19=-259/1743 5-18=-2255/480 5-16=-493/3900 12-15=-416/250 10-12=-558/391 b be connected 1 hails as follows:	5, 3-19=-376 8, 4-18=-88/ 9, 16-18=-10 9, 7-15=-290 18, 9-15=-95 3, 12-14=-6 together wit	60/599, 1360, 071/7174, 05/407, 59/6978, 69/254		 Provide mechanical connection (by others) of trust bearing plate capable of withstanding 397 lb uplift joint 11 and 383 lb uplift at joint 2. This truss is designed in accordance with the 201 International Residential Code sections R502.11. R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict th or the orientation of the purlin along the top and/c bottom chord. 						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	;	Top chords o oc.	connected as fol	llows: 2x4 -	1 row at 0-4	-0							
REACTIONS FORCES TOP CHORD	 2-0-0 oc purlins (4-3-6 max.): 4-10. 3OT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 11= Mechanical Max Horiz 2=136 (LC 5) Max Uplift 2=-383 (LC 8), 11=-397 (LC 5) Max Grav 2=2950 (LC 1), 11=3008 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/9, 2-3=-13063/1871, 3-4=-7753/1170, 4-21=-8055/1150, 21-22=-8058/1150, 22-23=-8059/1151, 5-23=-8061/1151, 5-24=-11693/1606, 6-7=-11693/1606, 6-24=-11693/1606, 6-7=-11693/1606, 6-7=-11693/1606, 6-7=-11693/1606, 7-25=-9457/1278, 8-25=-9457/1278, 8-25=-9457/1278, 8-25=-9457/1278, 8-25=-9457/1278, 8-25=-9457/1278, 8-25=-9400/1296, 26-27=-9400/1296, 26-27=-9400/1296, 26-27=-9400/1296, 26-27=-9400/1296, 26-29=-9400/1296, 26-29=-9400/1296, 9-30=-2689/405, total context and the top of the total context and t									STATE OF M	AISSOLD MISSOLD				
BOT CHORD	2-20=-1845/12009, 2 19-31=-1674/10865, 32-33=-1132/7060, 2 18-34=-1132/7060, 3 5-36=-145/1062, 12 16-17=0/295, 7-16=- 16-37=-1648/11827, 14-15=0/274, 8-15=- 38-39=0/117, 39-40: 13-41=0/117, 12-13: 12-42=-31/41, 11-42	20-31=-1675/10871, , 19-32=-1132/7060, 33-34=-1132/7060, 18-35=-145/1062, 7-36=-145/1062, -88/1312, , 15-37=-1654/11816 -677/251, 14-38=0/1 =0/117, 40-41=0/117 =0/273, 9-12=-2999/ 2=-31/41	6 7 8 17, 9 7, 1 591, 1	 All plates are This truss ha chord live los * This truss f on the bottor 3-06-00 tall b chord and ar Refer to gird Bearing at jo using ANSI/7 designer shot 	MT20 plates u as been designe ad nonconcurrer has been design n chord in all ar by 2-00-00 wide y other membe er(s) for truss to int(s) 2 conside ITPI 1 angle to g build verify capao	Inless other ad for a 10.0 Int with any hed for a live eas where will fit betw ers. b truss conn ors parallel t rain formula city of beari	wise indicate) psf bottom other live loa e load of 20.1 a rectangle veen the bott vections. o grain value a. Building ng surface.	ed. ads. Opsf om		2		SEVI NUMP PE-20010 PE-20010 March	ER BER D18807 L ENGLES 31,2021		



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	C5	Half Hip Girder	1	2	Job Reference (optional)	145418617

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:26

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Wheeler Lumber, Waverly, KS - 66871,

14) Hanger(s) or other connection device(s) shall be

provided sufficient to support concentrated load(s) 141 Ib down and 71 lb up at 11-0-0, 142 lb down and 71 lb up at 13-0-0, 142 lb down and 71 lb up at 15-0-0, 142 Ib down and 71 lb up at 17-0-0, 142 lb down and 71 lb up at 19-0-0, 142 lb down and 71 lb up at 21-0-0, 122 Ib down and 52 lb up at 23-0-0, 141 lb down and 70 lb up at 25-0-0, 141 lb down and 70 lb up at 27-0-0, 141 Ib down and 70 lb up at 29-0-0, and 141 lb down and 70 Ib up at 31-0-0, and 142 lb down and 71 lb up at 33-0-0 on top chord, and 787 lb down and 259 lb up at 9-0-0, 69 lb down at 11-0-0, 69 lb down at 13-0-0, 69 lb down at 15-0-0, 69 lb down at 17-0-0, 69 lb down at 19-0-0, 69 lb down at 21-3-4, 136 lb down at 23-0-0, 69 lb down at 25-0-0, 69 lb down at 27-0-0, 69 lb down at 29-0-0, and 69 lb down at 31-0-0, and 69 lb down at 33-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-10=-70, 2-20=-20, 17-20=-20, 15-16=-20, 13-14=-20, 11-12=-20

Concentrated Loads (lb)

Vert: 6=-110 (B), 17=-52 (B), 7=-110 (B), 21=-110 (B), 22=-110 (B), 23=-110 (B), 24=-110 (B), 25=-91 (B), 26=-109 (B), 27=-109 (B), 28=-109 (B), 29=-109 (B), 30=-110 (B), 31=-787 (B), 32=-52 (B), 33=-52 (B), 34=-52 (B), 35=-52 (B), 36=-52 (B), 37=-108 (B), 38=-52 (B), 39=-52 (B), 40=-52 (B), 41=-52 (B), 42=-51 (B)



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	D1	GABLE	1	1	Job Reference (optional)	145418618

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:26 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:42.9

Plate Offsets (X, Y): [11:0-2-14,Edge], [14:0-1-7,0-1-0], [23:0-1-7,0-1-0]

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	8/TPI2014	CSI TC BC WB Matrix-S	0.61 0.46 0.11	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.23 0.11 0.05	(loc) 9-10 9-10 8 9-10	l/defl >999 >561 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 53 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 2x4 SPF No.2 Structural wood shea 5-2-3 oc purlins, exc Rigid ceiling directly bracing.	pt* 11-2,8-6:2x6 SPF athing directly applied cept end verticals. applied or 10-0-0 oc	5) 6) 7) 8) I or 9)	Truss to be fit braced again Gable studs s This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearing at joi using ANSI/T designer sho	Illy sheathed from st lateral moveme spaced at 1-4-0 oc s been designed fi d nonconcurrent v as been designed n chord in all areas y 2-00-00 wide wil y other members. nt(s) 11, 8 conside PI 1 angle to grair uld verify capacity	one fac nt (i.e. d c. or a 10.0 vith any for a liv s where Il fit betw ers para n formula of beari	e or securely iagonal web).) psf bottom other live load e load of 20.0 a rectangle veen the botto liel to grain va a. Building ng surface.	ds. psf m Iue					
REACTIONS	(size) 8=0-3-8, 1 Max Horiz 11=140 (L Max Uplift 8=-77 (LC Max Grav 8=552 (LC	1=0-3-8 .C 7) 9), 11=-77 (LC 8) 2 1), 11=552 (LC 1)	10 11	 Provide mech bearing plate 11 and 77 lb This truss is a 	nanical connection capable of withsta uplift at joint 8. designed in accord	i (by oth anding 7 dance w	ers) of truss to 7 lb uplift at jo ith the 2018	o bint					
TOP CHORD	(lb) - Maximum Com Tension 1-2=0/43, 2-3=-833/9 4-5=-685/160, 5-6=-8 2-11=-728/109, 6-8=	pression/Maximum 97, 3-4=-705/197, 833/48, 6-7=0/43, -728/73	LC	International R802.10.2 ar DAD CASE(S)	Residential Code ad referenced stan Standard	sections dard AN	8502.11.1 a ISI/TPI 1.	nd					
BOT CHORD WEBS	10-11=-83/691, 9-10 4-9=-108/316, 5-9=-8 3-10=0/156	=-2/380, 8-9=0/605 8/156, 4-10=-133/369	Ι,									CONTRACT	an
1) Unbalance this design	ed roof live loads have	been considered for									B	ATE OF M	AISSOL

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

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

4) All plates are 2x4 MT20 unless otherwise indicated.

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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	D2	Roof Special	3	1	Job Reference (optional)	145418619

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:27 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale =	1:42.9
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Plate Offsets (X, Y): [6:0-2-14,Edge], [10:0-3-4,Edge]

		-			1								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.62	Vert(LL)	-0.10	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.56	Vert(CT)	-0.24	8-9	>531	240		
BCLL	0.0	Rep Stress Incr	YES		WB	0.11	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.06	8-9	>999	240	Weight: 41 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Ex No.2 Structural wood sl 5-1-8 oc purlins, e Rigid ceiling direc	cept* 10-2,7-6:2x6 SF leathing directly appli except end verticals. ly applied or 10-0-0 o	5) PF 6) ed or 7) c	Bearing at jo using ANSI/ designer sho Provide mec bearing plate 10 and 52 lb This truss is International R802.10.2 a	int(s) 10, 7 cons IFPI 1 angle to gr Juld verify capac hanical connecti a capable of with uplift at joint 7. designed in acc Residential Cooc nd referenced st Standard	iders paral ain formula ity of beari ion (by othe standing 7 ordance wi le sections andard AN	lel to grain v a. Building ng surface. ers) of truss 7 lb uplift at th the 2018 R502.11.1 a SI/TPI 1.	alue to joint and					
REACTIONS	(size) 7=0-3-8 Max Horiz 10=134 Max Uplift 7=-52 (I Max Gray 7=470 (, 10=0-3-8 (LC 5) .C 9), 10=-77 (LC 8) LC 1). 10=556 (LC 1)			Glandard								
FORCES	(lb) - Maximum Co Tension	mpression/Maximum											
TOP CHORD	1-2=0/43, 2-3=-84 4-5=-701/182, 5-6 6-7=-622/64	3/109, 3-4=-704/207, =-826/74, 2-10=-736/ ⁻	118,										
BOT CHORD WEBS	9-10=-106/678, 8- 4-8=-123/330, 5-8 3-9=0/158	9=-12/370, 7-8=-40/60 =-16/140, 4-9=-140/30	04 66,										
NOTES												000	TO
1) Unbalanc this desig	ed roof live loads hav	e been considered fo	r									SE OF M	AISS
2) Wind: AS	CE 7-16; Vult=115m	h (3-second gust)	Cat								B	SCOT	N Star

 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) 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.



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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	D3	Half Hip Girder	1	2	Job Reference (optional)	145418620

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:27 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:44.4

bracing.

Tension

2-11=-2585/337

4-8=-4510/504

1) 2-ply truss to be connected together with 10d

oc, 2x10 - 2 rows staggered at 0-9-0 oc.

(0.131"x3") nails as follows:

unless otherwise indicated.

staggered at 0-5-0 oc.

6=0-3-8 11=0-3-8

Max Uplift 6=-400 (LC 5), 11=-280 (LC 8)

Max Grav 6=4673 (LC 1), 11=2430 (LC 1)

(lb) - Maximum Compression/Maximum

1-2=0/49, 2-3=-3988/484, 3-4=-4272/448,

4-5=-139/46, 6-8=-4404/406, 5-8=-171/72,

3-10=-217/78, 3-9=-171/502, 4-9=-457/4720,

10-11=-523/2902. 9-10=-517/3151.

9-12=-469/3727, 7-12=-469/3727,

7-13=-470/3491, 8-13=-470/3491,

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 3 rows

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

All loads are considered equally applied to all plies,

CASE(S) section. Ply to ply connections have been

provided to distribute only loads noted as (F) or (B),

except if noted as front (F) or back (B) face in the LOAD

7-14=0/110. 6-14=-7/99

Max Horiz 11=197 (LC 7)

REACTIONS (size)

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

2)

Plate Offsets (X, Y): [4:0-6-4,0-2-4], [8:0-5-8,0-2-0], [9:0-3-8,0-4-12], [10:0-3-12,0-4-4], [11:0-0-12,0-1-2]

					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	0.62	Vert(LL)	-0.06	7-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.47	Vert(CT)	-0.11	7-9	>999	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.60	Horz(CT)	0.10	6	n/a	n/a			
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 140 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x6 SP 2400F 2.0E 2x4 SPF No.2 *Exce Structural wood shea 5-3-8 oc purlins, exc 2-0-0 oc purlins (6-0	pt* 11-2:2x10 SP DS athing directly applied cept end verticals, an -0 max.): 4-5.	3) S d or 4) d 5)	Wind: ASCE Vasd=91mp II; Exp C; En cantilever lef right expose Provide ade This truss ha chord live loo	7-16; Vult=115 h; TCDL=6.0psf iclosed; MWFRS ft and right expo d; Lumber DOL quate drainage t as been designe ad nonconcurren	mph (3-sec ; BCDL=6.0 S (envelope osed ; end v =1.60 plate to prevent v ed for a 10.0 nt with any	ond gust) ()psf; h=25ft; () exterior zoi ertical left ar grip DOL=1. vater pondin () psf bottom other live loa	Cat. ne; nd 60 g. ads.						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	6)	* This truss I	has been design	ned for a liv	e load of 20.0	Opst						

- 6) Inis truss has been designed for a live load of 20.0ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 6 and 280 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2993 lb down and 409 lb up at 6-0-13, and 1543 lb down and 62 lb up at 8-0-0, and 1542 lb down and 30 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S) Standard
 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 10-11=-20,
 - 7-10=-20, 6-7=-20
 - Concentrated Loads (lb)
 - Vert: 9=-2988 (F), 12=-1543 (F), 13=-1542 (F)



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	E1	GABLE	1	1	Job Reference (optional)	l45418621



Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:28 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 20-10-8 0-10-8 10-0-0 20-0-0 10-0-0 10-0-0 3x4 = 10 9 11 Ē 8 12 12 8 Г 13 7 6 14 7-7-3 7-7-0 5 15 16 4 3 17 18 2 p-11-q 19 35 20] ***** XXXX ***** $\sim \sim \sim$ 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20-0-0 ł

Т

Scale = 1:48.4

Plate Offsets (X, Y):	[10:0-2-0,Edge]	
Loading	(ncf)	Spacing

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.06	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.00	20	n/a	n/a			
BCDL	10.0	Code	IRC2018/T	PI2014	Matrix-R							Weight: 117 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2		TOP	CHORD	2-35=-165/82, 1-2 3-4=-107/106, 4-5 6-7=-75/133, 7-8= 9-10=-38/142, 10 11-12=-32/174, 1 13-14=-41/114, 1	2=0/40, 2- 5=-100/10 =-63/158, -11=-34/1 2-13=-32/ 4-15=-50/	3=-158/143, 1, 5-6=-87/10 8-9=-52/192, 38, 139, 90, 15-16=-6	08, 1/65,	8) Th ch 9) * ⁻ or 3- ch	his truss h hord live lo This truss h the botto 06-00 tall hord and a	has bee bad nor has be om cho by 2-0 any oth	n designed for a aconcurrent with a een designed for a rd in all areas wh 0-00 wide will fit b er members.	10.0 psf bottom any other live loads. a live load of 20.0ps ere a rectangle between the bottom	sf
TOP CHORD	Structural wood shea	athing directly applied	lor		16-17=-70/71, 17	-18=-123/	98, 18-19=0/-	40,	10) Pr	ovide me	chanica	al connection (by	others) of truss to	
BOT CHORD	6-0-0 oc purlins, exc Rigid ceiling directly bracing.	cept end verticals. applied or 6-0-0 oc	BOT	CHORD	18-20=-140/51 34-35=-97/113, 3 32-33=-97/113, 3 30-31=-97/113, 2	3-34=-97/ 1-32=-97/ 9-30=-97/	113, 113, 113,		be joi lb joi	earing plat int 35, 64 uplift at jo int 31, 47	te capa Ib uplif pint 33, Ib uplif	ble of withstandir t at joint 20, 140 l 51 lb uplift at joir t at joint 30, 65 lb	ig 106 lb uplift at b uplift at joint 34, 2 it 32, 45 lb uplift at uplift at joint 29, 67	!7 7
REACTIONS	(Size) 20=20=00 23=20=00 26=20=00 29=20=00 32=20=00 32=20=00 35=20=00 Max Uplift 20=-64 (LI 22=-30 (LI 24=-45 (LI 26=-67 (LI	(, 21=20-0-0, 22=20-(), 24=20-0-0, 25=20-(), 27=20-0-0, 28=20-(), 30=20-0-0, 31=20-(), 33=20-0-0, 34=20-() LC 6) C 5), 21=-126 (LC 9), C 9), 23=-51 (LC 9), C 9), 25=-47 (LC 9), C 9), 29=-65 (LC 8), C 9), 29=-65 (LC 8),	,-0,)-0,)-0,)-0, WEB: NOTE	S	28-29=-97/113, 2 26-27=-97/113, 2 24-25=-97/113, 2 22-23=-97/113, 2 20-21=-97/113, 2 20-21=-97/113, 2 20-21=-97/113, 2 20-21=-97/113, 2 3-34=-109/105, 4 6-31=-98/62, 7-33 9-28=-122/8, 11-2 13-25=-98/63, 14 16-22=-99/56, 17	7-28=-97/ 5-26=-97/ 3-24=-97/ 1-22=-97/ -33=-99/5 0=-98/63, 27=-113/0 -24=-98/6 -21=-98/9	113, 113, 113, 113, 5, 5-32=-98/6 8-29=-98/81, , 12-26=-101, 2, 15-23=-98, 8	64, /83, /64,	lb joi 12 11) Tř In Rî LOAD	uplift at jo int 24, 51 26 lb uplift his truss is ternationa 302.10.2 a CASE(S)	bint 26, Ib uplif at join s desig al Resic and refe) Star	47 lb uplift at joir t at joint 23, 30 lb t 21. need in accordanc dential Code secti erenced standarc ndard	t 25, 45 lb uplift at uplift at joint 22 and e with the 2018 ons R502.11.1 and ANSI/TPI 1.	t
	30=-47 (L) 32=-51 (L)	C 8), 31=-45 (LC 8), C 8), 33=-27 (LC 8),	1) U	Inbalance	d roof live loads ha	ive been o	considered fo	r				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	
FORCES	34=-140 (l Max Grav 20=173 (L 22=127 (L 26=124 (L 26=128 (L 30=125 (L 32=127 (L 34=168 (L (Ib) - Maximum Com Tension	LC 8), 35=-106 (LC 4 .C 15), 21=146 (LC 11 .C 22), 23=126 (LC 11 .C 16), 25=125 (LC 11 .C 16), 27=139 (LC 1 .C 18), 29=125 (LC 11 .C 15), 31=124 (LC 12 .C 15), 33=127 (LC 2 .C 6), 35=206 (LC 16) pression/Maximum) 2) W 6), 2) W 6), II; 7), riv 5), 3) T 5), 3) T 1), su 1), su 4) A 5) G 6) T bl	(ind: ASC asd=91m ; Exp C; E antilever I ght expos russ designly. For s ee Standa r consult o Il plates a iable requ russ to be raced aga iable stud	E 7-16; Vult=115m oh; TCDL=6.0psf; I nclosed; MWFRS eft and right expose ed; Lumber DOL= ined for wind loads tuds exposed to w rd Industry Gable qualified building dr re 2x4 MT20 unles ires continuous bo fully sheathed from inst lateral movem is spaced at 1-4-0 of	ph (3-sec BCDL=6.6 (envelope ed; end v 1.60 plate s in the plate ind (norm End Deta esigner as s otherwi ttom chor m one fac ient (i.e. d oc.	ond gust) Opsf; h=25ft; (e) exterior zor ertical left an grip DOL=1.1 ane of the tru: al to the face Is as applicat as applicat be ar ANSI/TF se indicated. d bearing. e or securely iagonal web).	Cat. ne; d 60 ss), ble, PI 1.				PE-20010	IISSOLA ER DI8807	

March 31,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	E2	Common	3	1	Job Reference (optional)	145418622



Scale =	1:52.5
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Plate Offsets (X, Y): [8:0-2-7,0-9-7], [10:0-3-10,0-5-6]

Loading	(psf)	Spacing	2-0-0		CSI	0.00	DEFL	in 0.17	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)	25.0	Plate Grip DOL	1.15			0.83	Vert(LL)	-0.17	8-9	>999	360	MT20	197/144
RCU	10.0	Ron Stross Incr	VEQ			0.72		-0.35	0-9	>072	240 p/o		
BCDI	10.0	Code	IRC201	8/TDI2014	Matrix-S	0.23	Wind(LL)	0.02	0_10	-000	240	Weight: 73 lb	FT - 10%
DODL	10.0	Code	11(0201	0/11/12/014	Wath-0		WING(LL)	0.05	3-10	2333	240	Weight. 75 lb	11 = 1078
LUMBER			6)	This truss is	designed in acco	ordance wi	th the 2018						
TOP CHORD	2x4 SPF No.2			International	Residential Cod	le sections	R502.11.1 a	and					
BOT CHORD	2x4 SPF No.2			R802.10.2 a	nd referenced st	andard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2 *Exce	pt* 10-2,8-6:2x8 SF	PDSS LC	DAD CASE(S)	Standard								
BRACING													
TOP CHORD	Structural wood she 3-11-6 oc purlins, e	athing directly appli xcept end verticals.	ed or										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	C										
REACTIONS	(size) 8=0-3-8, 2	10=0-3-8											
	Max Horiz 10=-220 (LC 6)											
	Max Uplift 8=-124 (L	C 9), 10=-124 (LC 8	B)										
	Max Grav 8=955 (LC	C 1), 10=955 (LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/46, 2-3=-1059)/157, 3-4=-795/156	8,										
	4-5=-795/156, 5-6=-	1059/157, 6-7=0/46	δ,										
	2-10=-851/174, 6-8=	-851/174											
BOT CHORD	9-10=-136/798, 8-9=	-36/760											
WEBS	4-9=-53/469, 5-9=-2	44/210, 3-9=-244/2	10										
NOTES													
1) Unbalanc	ed roof live loads have	been considered for	or										
this desig	n.											San	alle
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										FOF I	ALSO D
Vasd=91r	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;	Cat.								1	755	NO S
II; Exp C;	Enclosed; MWFRS (er	velope) exterior zo	ne;								A	N/ acom	Ner
cantilever	ient and right exposed	; end vertical left an	10								A	scor	IM. YAY
2) This trues	seu; Lumper DOL=1.6	u plate grip DOL=1.	.00								8	SEV	IER / Ø
 inistruss 	nas been designed for	a ru.u psi bollom									11	-1	

- 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 124 lb uplift at joint 10 and 124 lb uplift at joint 8.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	E3	Common	7	1	Job Reference (optional)	145418623

Page: 1

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:29 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-10-8 5-3-9 10-0-0 14-8-6 20-0-0 0-10-8 5-3-9 4-8-6 4-8-6 5-3-10 4x5 = 4 1<u>2</u> 2x4 2x4 🍫 3 5 7-7-3 7-7-0 18-9-8 12x12 💊 6 9-11-0 7 ₿ 8 12x12 🦼 3x10 =

> 10-0-0 10-0-0

Scale = 1	:52.5
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"late Offsets (X, Y): [6:Edge,0-9-7], [9:0-3-10,0-5-6]													
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	0.82	Vert(LL)	-0.17	8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.36	8-9	>640	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	8-9	>999	240	Weight: 71 lb	FT = 10%	
UMBER 6) This truss is designed in accordance with the 2018													

20-0-0

10-0-0

TOP CHORD

2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 9-2,7-6:2x8 SP DSS WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 7=0-3-8, 9=0-3-8 Max Horiz 9=213 (LC 5) Max Uplift 7=-97 (LC 9), 9=-124 (LC 8) Max Grav 7=870 (LC 1), 9=958 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/46, 2-3=-1060/156, 3-4=-796/156, 4-5=-796/155, 5-6=-1066/158, 2-9=-851/174, 6-7=-758/145 BOT CHORD 8-9=-149/789, 7-8=-65/776 WEBS 4-8=-53/469, 5-8=-261/213, 3-8=-245/210

- NOTES
- Unbalanced roof live loads have been considered for 1) 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.
- * 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.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 124 lb uplift at joint 9 and 97 lb uplift at joint 7.

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 32 OS	
Lot 32 OS	J1	Diagonal Hip Girder	1	1	Job Reference (optional)	145418624

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:29 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:35.3

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

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.46	Vert(LL)	-0.04	6-7	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.40	Vert(CT)	-0.09	6-7	>999	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.39	Horz(CT)	0.01	5	n/a	n/a			
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 39 lb	FT = 10%	
LUMBER			5) Bearing at jo	int(s) 7 considers	parallel t	o grain value	Э						
TOP CHORD	2x4 SPF No.2			using ANSI/	[PI 1 angle to gra	in formula	a. Building							
BOT CHORD	2x4 SPF No.2 *Exce	pt* 6-5:2x6 SPF No	.2	designer sho	ould verify capacit	y of beari	ng surface.							
WEBS	2x3 SPF No.2 *Exce	pt* 7-2:2x4 SPF No	.2 6) Provide mec	hanical connectio	on (by oth	ers) of truss	to						
BRACING				bearing plate	e capable of withs	standing 2	04 lb uplift a	t						
TOP CHORD	Structural wood she	athing directly applie	ed or	joint 7 and 2	21 lb uplift at joint	t 5.								
	5-6-13 oc purlins, e	xcept end verticals.	7) This truss is	designed in acco	rdance w	ith the 2018							
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	С	International	Residential Code	e sections	R502.11.1 a	and						
	bracing.		_	R802.10.2 a	nd referenced sta	Indard AN	ISI/TPI 1.							
REACTIONS	(size) 5= Mecha	anical, 7=0-4-3	8) Hanger(s) or other connection device(s) shall be											
	Max Horiz 7=172 (LO	C 5)		provided suf	licient to support	concentra	ited load(s) t	59 ID						
	Max Uplift 5=-221 (L	C 8), 7=-204 (LC 4)		down and 30	1 ID UP at 2-8-5, 1	2 lb up of	vn and 67 lb	up at						
	Max Grav 5=644 (L0	C 1), 7=636 (LC 1)		b down and	95 lb up of 7 / 1	5 ib up at	5-0-10, and 0	l IUO Ib						
FORCES	(lb) - Maximum Corr	pression/Maximum		down and 12	05 10 up at 7-4-1 9 lb up at 2-8-5 1	3 lb dowr	at 3-6-14	10 17 lb						
	Tension			down and 16	Slb up at 5-0-10	and 251	Ib down and	93 lb						
TOP CHORD	2-7=-612/250, 1-2=0)/42, 2-8=-1001/293,	,	up at 7-4-3.	and 31 lb down a	at 7-4-15	on bottom ch	hord.						
	8-9=-929/295, 9-10=	-916/297,		The design/s	election of such	connectio	n device(s) is	s the						
	3-10=-873/299, 3-11	=-111/20, 4-11=-56	/23,	responsibility	of others.									
	4-5=-104/50		9) In the LOAD	CASE(S) section	n, loads ar	oplied to the	face						
BOT CHORD	7-12=-219/229, 12-1	3=-214/232,		of the truss a	are noted as front	(F) or ba	ck (B).							
	13-14=-214/233, 6-1	4=-212/242,	L	OAD CASE(S)	Standard	. ,	. ,							
	6-15=-339/888, 5-15	6-15=-339/888, 5-15=-341/895			of Live (balanced)): Lumber	Increase=1.	15.						
WEBS	2-6=-179/643, 3-6=-	45/331, 3-5=-961/37	/2	Plate Increa	ase=1.15	,						000	all	
NOTES				Uniform Lo	ads (lb/ft)							A OF I	MIG. D	
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)		Vert: 1-2	=-70, 2-4=-70, 6-	7=-20, 5-6	6=-20					BAR	J. oscim	
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.	Concentrat	ed Loads (lb)						6	AN A	N.S.	
II; Exp C;	Enclosed; MWFRS (er	nvelope) exterior zor	ne;	Vert: 11=	-30 (B), 12=3 (B)), 13=-6 (F	F), 14=-2 (B)				R	SCOT	TM. VEN	
cantilever	left and right exposed	; end vertical left an	d	15=-270	(F=-251, B=-19)						R	/ SEV	IER \ Y	
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.0	60								1		1 * 1	
2) This truss	has been designed fo	r a 10.0 psf bottom									K ()	1	0	
cnord live	load nonconcurrent wi	th any other live load	as.							_	WX.	anto.	zorlen	
.3) " I DIS TRUS	ss nas been designed t	or a live load of 20.0	JDST											

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.



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



PE-200101880

SSIONAL E

March 31,2021

OFF

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J2	Jack-Closed	1	1	Job Reference (optional)	145418625

3-6-1

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12

6x6 II



Scale = 1:32.3

														_
Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.33	DEFL Vert(LL)	in -0.04	(loc) 6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144	
TCDL		10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	6	>999	240			
BCLL		0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	5	n/a	n/a			
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6	>999	240	Weight: 22 lb	FT = 10%	_
LUMBER				8) This truss is	designed in accord	lance w	ith the 2018							
TOP CHORD	2x4 SPF No.	2		International	Residential Code s	sections	R502.11.1 a	nd						
BOT CHORD	2x4 SPF No.	2		R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.							
WEBS	2x3 SPF No.	2 *Exce	pt* 7-2:2x4 SPF No.2	2 LOAD CASE(S)	Standard									
BRACING														
TOP CHORD	Structural wo	bod shea	athing directly applies	d or										
BOT CHORD	Rigid ceiling	directly	applied or 10-0-0 oc											
	bracing.													
REACTIONS	(size) 5=	= Mechai	nical, 7=0-3-8											
	Max Horiz 7=	=128 (LC - 71 (LC	(5)											
	Max Grav 5=	=-7 T (LC =288 (LC	c 1), 7=-63 (LC 8)											
FORCES	(lb) - Maximu	um Com	pression/Maximum											
	Tension													
TOP CHORD	2-7=-471/12	5, 1-2=0	/27, 2-3=-640/134,											
	3-4=-72/28, 4	4-5=-123	3/46											
	0-7=-100/00 3_6=0/217 3	1, 5-6=-	100/002 /177											
NOTES	3-0=0/217, 3	-5=-495	/ 1 / /											
1) Wind ASC	>E 7-16: \/ult=1	115mph	(3-second quet)											
Vasd=91m	nph: TCDL=6.0)psf: BCI	DL=6.0psf: h=25ft: C	at.										
II; Exp C; E	Enclosed; MWI	FRS (en	velope) exterior zone	е;										
cantilever l	left and right e	xposed ;	; end vertical left and	l									Th	
right expos	sed; Lumber D	OL=1.60) plate grip DOL=1.6	0								OFM	ALC. D	
 The Fabric This transition 	cation Tolerand	ce at join	12 = 6%								4	FE	USS W	
 I his truss chord live l 	has been desig	gnea for irrent wit	a 10.0 pst bottom	le							A	N	Nor	
 4) * This truss 	s has been des	signed fo	or a live load of 20 0r	nsf							H.	SCOT	M. YOY	
on the bott	tom chord in al	ll areas v	where a rectangle								8	SEVI	ER \.X	
3-06-00 tal	ll by 2-00-00 w	ide will f	fit between the bottor	m							80			
chord and	any other men	nbers.										alt -	Dalla)
 Refer to gill Reserve at the second sec	irder(s) for trus	s to trus	s connections.							0	82	NUM	BER ISI	
 bearing at using ANS 	Joint(S) 7 cons SI/TPI 1 angle t	o grain f	frailei to grain value								No	> PE-2001	018807	
designer s	hould verify ca	apacity of	f bearing surface.								8	The	158	
7) Provide me	echanical conn	nection (I	by others) of truss to	1								N'SION	ENUS	
bearing pla	ate capable of	withstan	iding 63 lb uplift at jo	int								WNA	L	
7 and 71 lb	b uplift at joint !	5.										Marris	24 2024	
												warch	131,2021	

NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	russ Truss Type G		Ply	Lot 32 OS					
Lot 32 OS	J3	Jack-Open	1	1	Job Reference (optional)	145418626				

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Scale = 1:27

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	0.16 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.01 0.01 0.01	(loc) 5 5-6 3 5-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 10 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 3-7-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applie cept end verticals. applied or 6-0-0 oc											
REACTIONS	(size) 3= Mecha 6=0-3-8 Max Horiz 6=66 (LC Max Uplift 3=-54 (LC Max Grav 3=103 (Lt (LC 1)	anical, 4= Mechanica 8) C 8), 6=-35 (LC 8) C 1), 4=63 (LC 3), 6=	I, -234										
FORCES TOP CHORD 3OT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; E cantilever I right expos 2) This truss I chord live I 3) * This truss on the bott 3-06-00 tal chord and 4 4) Refer to gii 5) Bearing at using ANS designer sI 6) Provide me bearing pla 6 and 54 lb	6=0-3-8 Max Horiz 6=66 (LC 8) Max Uplitt 3=-54 (LC 8), 6=-35 (LC 8) Max Uplitt 3=-54 (LC 8), 6=-35 (LC 8) Max Grav 3=-103 (LC 1), 4=63 (LC 3), 6=234 (LC 1) (LC										STATE OF M SCOTT SEVI SEVI PE-20010 PE-20010	AISSOLD M. ER JER JISSOT ER JISSOT ER JISSOT ER JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E JISSO E A JISSO E JISSO E A JISSO E JISSO E A JISSO E A JISSO E JISSO	

March 31,2021

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Nitek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J4	Jack-Open	1	1	Job Reference (optional)	145418627

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:30 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	018/TPI2014	CSI TC BC WB Matrix-R	0.07 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF I 2x4 SPF I 2x4 SPF I Structural 1-4-10 oc Rigid ceili	No.2 No.2 No.2 I wood shea purlins, ex ing directly	athing directly applied coept end verticals. applied or 6-0-0 oc	d or	 This truss is International R802.10.2 ar LOAD CASE(S) 	designed in accord Residential Code nd referenced star Standard	dance w sections ndard AN	ith the 2018 .R502.11.1 ar ISI/TPI 1.	nd					
REACTIONS	ORD Rigid ceiling directly applied or 6-0-0 oc bracing. ONS (size) $3 =$ Mechanical, $4 =$ Mechanical, 5 = 0 - 3 - 8 Max Horiz $5 = 47$ (LC 8) Max Uplift $3 = -30$ (LC 8), $4 = -6$ (LC 8), $5 = -8$ (LC 8) Max Grav $3 = 29$ (LC 15), $4 = 21$ (LC 3), $5 = 156$ (LC 1) S (lb) - Maximum Compression/Maximum													
FORCES TOP CHORD BOT CHORD	(lb) - Max Tension 2-5=-137/ 4-5=-9/5	imum Com ⁄29, 1-2=0/4	pression/Maximum 40, 2-3=-38/12											
NOTES 1) Wind: ASG Vasd=91r II; Exp C; cantilever right expo 2) This truss chord live 3) * This trus	CE 7-16; Vu nph; TCDL= Enclosed; M left and righ sed; Lumbe has been d load noncol s has been	It=115mph 6.0psf; BC IWFRS (en it exposed r DOL=1.60 esigned for ncurrent wi designed for	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zono ; 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 20.0p	at. e; 0 s. osf									STATE OF M	MISSOLUR MISSOLUR

- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4, 30 lb uplift at joint 3 and 8 lb uplift at joint 5.

NUMBER PE-2001018807 March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J5	Jack-Open	1	1	Job Reference (optional)	145418628

-0-10-8

0-10-8

Wheeler Lumber, Waverly, KS - 66871,

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2-7-10

2-7-10

Scale = 1:28.2

														_
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.07 0.06 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 -0.01 0.00	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF Structural 2-7-10 oc Rigid ceil bracing	No.2 No.2 No.2 I wood she: purlins, e: ing directly	athing directly applie ccept end verticals. applied or 6-0-0 oc	7) This trus Internati R802.10 LOAD CASI	es is designed in acco onal Residential Code 0.2 and referenced sta E(S) Standard	rdance wi e sections ndard AN	th the 2018 R502.11.1 a ISI/TPI 1.	ind						
REACTIONS	(size) Max Horiz Max Uplift Max Grav	3= Mecha 5=0-3-8 5=80 (LC 3=-58 (LC 8) 3=78 (LC (LC 1)	nical, 4= Mechanica 8) 8), 4=-2 (LC 8), 5= 15), 4=45 (LC 3), 5:	al, 4 (LC =196										
FORCES TOP CHORD BOT CHORD	(lb) - Max Tension 2-5=-172/ 4-5=-16/1	imum Com /36, 1-2=0/4 1	pression/Maximum 40, 2-3=-66/36											
NOTES 1) Wind: ASC Vasd=91n II; Exp C; cantilever right expo 2) This truss chord live	CE 7-16; Vu nph; TCDL= Enclosed; M left and righ sed; Lumbe has been d load noncol	It=115mph 6.0psf; BC IWFRS (en at exposed r DOL=1.60 esigned for ncurrent wi	(3-second gust) DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an) plate grip DOL=1. a 10.0 psf bottom th any other live loa	Cat. ne; id 60 ds.							ŧ.	STATE OF I	MISSOUP	

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 58 lb uplift at joint 3 and 2 lb uplift at joint 4.

PE-2001018807 PE-2001018807 March 31,2021

> 16023 Swingley Ridge Rd Chesterfield, MO 63017

SEVIER

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J6	Jack-Open	1	1	Job Reference (optional)	145418629

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Scale = 1:29.9

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.4 BC 0.4 WB 0.0 Matrix-R	9 Ver 2 Ver 0 Hor Wir	FL -(LL) -(t(CT) -(rz(CT) -(nd(LL) (in 0.01 0.02 0.02 0.02	(loc) 5-6 5-6 3 5-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sh	eathing directly applie	 This truss is Internationa R802.10.2 a LOAD CASE(S) ed or 	designed in accordance Residential Code secti nd referenced standard Standard	with th ons R50 ANSI/T	e 2018)2.11.1 and PI 1.						
BOT CHORD	3-10-10 oc purlins Rigid ceiling direct bracing.	except end verticals ly applied or 6-0-0 oc	i.									
REACTIONS	(size) 3= Mec 6=0-3-8 Max Horiz 6=114 (Max Uplift 3=-83 (I Max Grav 3=122 ((I C 1)	nanical, 4= Mechanica _C 8) .C 8), 6=-3 (LC 8) _C 15), 4=69 (LC 3), 6	al, 6=247									
FORCES	(lb) - Maximum Co Tension 2-6=-216/46, 1-2=	mpression/Maximum 0/40, 2-3=-96/56										
NOTES	5-6=-24/11, 4-5=0	0										
 Wind: ASC Vasd=91n II; Exp C; cantilever right expo: This truss 	CE 7-16; Vult=115m nph; TCDL=6.0psf; E Enclosed; MWFRS (left and right expose sed; Lumber DOL=1 has been designed	h (3-second gust) CDL=6.0psf; h=25ft; (envelope) exterior zor d; end vertical left an 60 plate grip DOL=1.0 or a 10.0 psf bottom	Cat. 1e; d 60								STE OF M	AISS
 chord live This trus on the bot 3-06-00 ta chord and Refer to gi Bearing at using ANS 	load nonconcurrent is has been designed tom chord in all area ill by 2-00-00 wide w any other members irder(s) for truss to t t joint(s) 6 considers SI/TPI 1 angle to grai	with any other live load I for a live load of 20.0 Is where a rectangle Il fit between the botto russ connections. parallel to grain value n formula. Building	ds.)psf om							I	SCOTI SEVI	M. ER
designer s 6) Provide m bearing pla and 83 lb	should verify capacity techanical connection ate capable of withst uplift at joint 3.	of bearing surface. a (by others) of truss to anding 3 lb uplift at joi	o int 6							Ø	SIONA	L ENGINE

March 31,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J7	Jack-Closed Girder	1	1	Job Reference (optional)	145418630

3-2-4 3-2-4

-0-10-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:31 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-11-4

5-2-9

2-0-5

Page: 1



0-3-8 3-0-0 2-7-12

Scale = 1:38.3

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

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	0.11 0.31	DEFL Vert(LL) Vert(CT)	in -0.01 -0.02	(loc) 6-7 7-8	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL	0.0*	Rep Stress Incr	NO		WB	0.17	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P		Wind(LL)	0.01	6-7	>999	240	Weight: 29 lb	FI = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 5-11-4 oc purlins, e: 2-0-0 oc purlins: 4-5 Rigid ceiling directly bracing. (size) 6= Mecha	pt* 7-6:2x6 SPF No pt* 8-2:2x4 SPF No athing directly applie accept end verticals, applied or 10-0-0 or nical, 8=0-3-8	7) .2 8) ed or and 9) c 10	Bearing at jo using ANSI/I designer sho Provide mec bearing plate 8 and 247 lb This truss is International R802.10.2 ar I) Graphical pu or the orienta bottom chorc	int(s) 8 considers TPI 1 angle to grai uld verify capacity hanical connection e capable of withst uplift at joint 6. designed in accor Residential Code nd referenced star rlin representation ation of the purlin a 1.	parallel i n formula of beari n (by oth anding 2 dance w sections ndard AN a does no along the	o grain value a. Building ng surface. ers) of truss i 8 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s e top and/or	to joint and size					
FORCES	Max Horiz 8=128 (LC Max Uplift 6=-247 (L Max Grav 6=807 (LC (lb) - Maximum Com	C 5) C 5), 8=-28 (LC 8) C 1), 8=402 (LC 1) pression/Maximum	11) Hanger(s) or provided suff lb down and design/selec	a. other connection icient to support of 232 lb up at 5-2-5 tion of such conne	device(s oncentra on bott) shall be ated load(s) 6 om chord. Tl vice(s) is the	626 he					
TOP CHORD	Tension 2-8=-371/68, 1-2=0/- 3-4=-442/128, 4-5=-1	40, 2-3=-467/75, 36/27_5-6=-22/5	12	responsibility) In the LOAD	of others. CASE(S) section,	loads a	oplied to the	face					
BOT CHORD	7-8=-133/88 7-9=-3	4/64 6-9=-40/81			ire noted as front	(F) or ba	ск (в).						
WEBS	2-7=-14/341, 3-7=-19 4-6=-301/84	94/86, 4-7=-151/531	1, L (Dead + Roo Plate Increa	Standard of Live (balanced): ase=1 15	Lumber	Increase=1.	15,					
NOTES				Uniform Loa	ads (lb/ft)								
 Unbalanc this desig 	ed roof live loads have n.	been considered for	r	Vert: 1-2	=-70, 2-4=-70, 4-5	=-70, 7-	8=-20, 6-7=-2	20				OF	ALL ALL
 Wind: AS Vasd=91r II; Exp C; and right Lumber D Provide a This truss chord live 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I iOL=1.60 plate grip DO dequate drainage to pro- has been designed for load nonconcurrent wi	(3-second gust) DL=6.0psf; h=25ft; 0 welope); cantilever l eft and right expose L=1.60 event water ponding; a 10.0 psf bottom th any other live load	Cat. left ed; g. ds.	Vert: 9=-	626 (F)						A STATE	STATE SCOT	I M. ER Service

* 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.

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

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PE-200101880'

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March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J8	Jack-Open	6	1	Job Reference (optional)	145418631

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:31 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





_ 4 12

Scale = 1:34.8

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.53 0.30 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.12 0.06 0.06	(loc) 5-6 5-6 3 5-6	l/defl >999 >584 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 5-11-4 oc p	0.2 0.2 0.2 vood shea urlins, ex	athing directly applie	 7) This truss is International R802.10.2 ar LOAD CASE(S) d or 	designed in acco Residential Cod nd referenced sta Standard	ordance wi e sections andard AN	th the 2018 R502.11.1 a SI/TPI 1.	Ind						
REACTIONS	(size) 3 Max Horiz 6 Max Uplift 3 Max Grav 3	= Mechai =0-3-8 =119 (LC =-77 (LC =186 (LC	applied of 6-0-0 oc nical, 4= Mechanica 2 8) 8) 2 13), 4=109 (LC 3),	I,										
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I and right e Lumber D 2) This truss chord live 3) * This trus	(Ib) - Maxim Tension 2-6=-293/28 5-6=-38/5, 4 CE 7-16; Vult= nph; TCDL=6. Enclosed; HW oL=1.60 plate has been des load nonconc is has been de	and the second s	(3-second gust) (3-second gust) DL=6.0psf; h=25ft; C velope); cantilever le eft and right expose L=1.60 a 10.0 psf bottom th any other live load or a live load of 20.0 where a restance	Cat. eft d; ds. psf							H.	STATE OF M	MISSOLA	
on the bot 3-06-00 ta chord and 4) Refer to gi 5) Bearing at using ANS designer s 6) Provide m bearing pla 3.	tom chord in a all by 2-00-00 v any other me irder(s) for tru t joint(s) 6 con SI/TPI 1 angle should verify c lechanical con ate capable of	wide will f mbers. uss to trus siders pa to grain f apacity o nection (I f withstan	where a rectangle fit between the botto ss connections. Irallel to grain value formula. Building f bearing surface. by others) of truss to iding 77 lb uplift at jo	m)) int						١		SEVI NUM PE-20010 PE-20010	ER Server 018807	>



Contra

March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J9	Jack-Open	1	1	Job Reference (optional)	145418632

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:31 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-2-12 0-1-4 0-7-4

Scale = 1:40

Loading TCLL (roof) TCDL BCLL BCDL	(ps 25 10 0 10	sf) 5.0 1 5.0 1 0.0 1 0.0* 1 0.0 (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	0.50 0.37 0.03	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.17 0.17 0.10	(loc) 3-6 3-6 5 3	l/defl >758 >410 n/a >706	L/d 360 240 n/a 240	PLATES MT20 Weight: 22 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 * Structural wood 5-11-4 oc purlin Rigid ceiling dir bracing	Except d sheatins, exc rectly ap	* 6-7:2x3 SPF No. hing directly applie ept end verticals. pplied or 10-0-0 or	LOAD CASE(S) 2 ed or c	Standard								
REACTIONS	(size) 4= M 8=0- Max Horiz 8=11 Max Uplift 4=-5 Max Grav 4=16 8=25	1echani 3-8 19 (LC 8 8 (LC 8 67 (LC 1	ical, 5= Mechanica 8) 3) 13), 5=176 (LC 3),	ıl,									
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m II; Exp C; I and right e Lumber Dr 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing pla 4. 6) This truss Internation R802.10.2	(lb) - Maximum Tension 2-8=-321/4, 1-2 7-8=0/0, 3-6=0/ 6-7=0/104 CE 7-16; Vult=115 nph; TCDL=6.0ps Enclosed; MWFR exposed ; end ver OL=1.60 plate gri has been design load nonconcurre s has been design load nonconcure s has been design load nonconcurre s has bee	Compr 2=0/40, /0, 5-6= 5mph (3 f; BCDI S (envertical lef p DOL= ed for a ent with ned for reas wh e will fit ers. to truss tion (by thstandi	2-3=-143/1, 3-4=- -0/0 3-second gust) L=6.0psf; h=25ft; C elope); cantilever l t and right expose =1.60 any other live load a live load of 20.0 here a rectangle between the botto connections. y others) of truss tr ing 58 lb uplift at jo ce with the 2018 ttons R502.11.1 at d ANSI/TPI 1.	55/81 Cat. eft d; ds. Jpsf om o pint								STATE OF M SCOTT SEVI SEVI PE-20010 RESSIONA	MISSOLA T.M. ER DI8807

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MiTek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J10	Jack-Open	4	1	Job Reference (optional)	145418633

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:32 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.1

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

-													
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	0.53	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.11	4-5	>598	240		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	4-5	>999	240	Weight: 17 lb	FT = 10%
			•		•							, i i i i i i i i i i i i i i i i i i i	
LUMBER				LOAD CASE(S)	Standard								
TOP CHORD	2x4 SPF	No.2											
BOT CHORD	2x4 SPF	No.2											
WEBS	2x4 SPF	No.2											
BRACING													
TOP CHORD	Structura	I wood she	athing directly applie	ed or									
	5-11-4 00	purlins, e	xcept end verticals.										
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 or										
REACTIONS	(size)	3= Mecha 5=0-3-8	nical, 4= Mechanica	ıl,									
	Max Horiz	5=119 (LC	C 8)										
	Max Uplift	3=-76 (LC	8)										
	Max Grav	3=185 (LC	C 13), 4=109 (LC 3),										
		5=336 (LC	C 1)										
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum										
TOP CHORD	2-5=-293	/29, 1-2=0/4	40, 2-3=-127/85										
BOT CHORD	4-5=0/0												
NOTES													
1) Wind: AS	CE 7-16; Vu	ılt=115mph	(3-second gust)										
Vasd=91r	mph; TCDL=	=6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.									
II; Exp C;	Enclosed; N	/WFRS (er	velope); cantilever l	eft								000	ADD
and right	exposed ; er	nd vertical I	eft and right expose	d;								OF N	Alson
Lumber D	OL=1.60 pla	ate grip DO	L=1.60								1	P.TE	-050.0
2) This truss	has been d	lesigned for	a 10.0 psf bottom								6	N	Nor
chord live	load nonco	ncurrent wi	th any other live load	ds.							B	SCOT	ΓM. Y Y
3) * This true	ss has been	designed f	or a live load of 20.0	ipst							Я	SEVI	ER \Y
on the bo	ttom chord i	n all areas	where a rectangle								2*	1	A ↓★ Ø
3-06-00 ta	all by 2-00-0	Wide Will	fit between the botto	m								+K	· L 178
 A) Refer to a 	i any ouner r sirder(e) for	trues to true	es connections										Serven
5) Provide m	nuer(s) 101	onnection /	by others) of trues to	`							27	T DE OCOL	DER AND
hearing n	late canable	of withstar	nding 76 lb unlift at i	- int							N.	ON PE-2001	018807
3.			ianig 70 ib upint at j	2014							V	No.	154
 This truss 	is designed	l in accorda	ance with the 2018								0	SION	FN
Internatio	nal Residen	tial Code se	ections R502.11.1 a	nd								WNA	L

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.

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J11	Jack-Open	1	1	Job Reference (optional)	145418634

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:32 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:34.8

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.53 0.29 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.12 0.06 0.06	(loc) 4-5 4-5 3 4-5	l/defl >999 >589 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 5-11-4 oc pu Rigid ceiling bracing.	.2 .2 .2 urlins, ex directly :	athing directly applie ccept end verticals. applied or 6-0-0 oc	7) This truss is International R802.10.2 a LOAD CASE(S) d or	designed in accor Residential Code nd referenced star Standard	dance wi sections ndard AN	ith the 2018 R502.11.1 ai ISI/TPI 1.	nd					
REACTIONS	(size) 3: 6: Max Horiz 6: Max Uplift 3: Max Grav 3: 6:	= Mechar =0-3-8 =118 (LC =-77 (LC =187 (LC =336 (LC	nical, 4= Mechanical 8) 8) 13), 4=109 (LC 3), 1)	,									
FORCES	(lb) - Maxim Tension 2-6=-292/28	um Comp 8, 1-2=0/4	20, 2-3=-127/85										
 Koteken Notes Wind: ASC Vasd=91m II; Exp C; E and right ex Lumber DC This truss f chord live le * This truss on the botto 3-06-00 tall chord and a Refer to girl Bearing at using ANSI designer sh Provide me bearing pla 3. 	5-5-5-3/0, 4 E 7-16; Vult= ph; TCDL=6.1 Enclosed; MW xposed ; end DL=1.60 plate has been des oad nonconcu s has been de om chord in a l by 2-00-00 v any other mei rder(s) for tru joint(s) 6 consi //TPI 1 angle hould verify ca echanical con ate capable of	115mph Dpsf; BCI (FRS (en vertical le grip DOI igned for uurrent wit signed fo ull areas v vide will f mbers. ss to trus siders pa to grain f apacity of nection (l	(3-second gust) DL=6.0psf; h=25ft; C velope); cantilever le eft and right exposed =1.60 a 10.0 psf bottom h any other live load or a live load of 20.0p where a rectangle it between the bottom ss connections. rallel to grain value ormula. Building i bearing surface. by others) of truss to ding 77 lb uplift at jo	at. sft s. ssf m						٩		NUME PE-20010	AISSOLUTE ER DISSO L ENGINE

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March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	J12	Jack-Open	13	1	Job Reference (optional)	145418635

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:32 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3-11-4

Scale = 1:27.2

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.20 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 -0.02 0.02	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 12 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 3-11-4 oc p Rigid ceiling bracing.	o.2 o.2 o.2 vood shea urlins, ey g directly	athing directly applied ccept end verticals. applied or 10-0-0 oc	d or									
REACTIONS	(size) 3 5 Max Horiz 5 Max Uplift 3 Max Grav 3 (I	8= Mechai 5=0-3-8 5=115 (LC 8=-83 (LC 8=123 (LC LC 1)	nical, 4= Mechanical 8), 5=-4 (LC 8) 5 15), 4=71 (LC 3), 5=	-249									
FORCES	(lb) - Maxim Tension 2-5=-218/48	num Com 3, 1-2=0/4	pression/Maximum 40, 2-3=-97/57										
NOTES	4-5=0/0												
1) Wind: AS(Vasd=91n II; Exp C; cantilever right expo	CE 7-16; Vult= nph; TCDL=6. Enclosed; MW left and right of sed; Lumber I	=115mph 0psf; BCI VFRS (en exposed ; DOL=1.60	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 ; a 10.0 psf better	at. >; 0								OF M	
 This truss chord live * This trus on the bot 3-06-00 ta chord and Refer to g Provide m bearing pl and 83 lb 	 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. Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5 and 83 lb uplift at joint 3. 												
6) This truss Internation R802.10.2	is designed ir nal Residentia 2 and referenc	n accorda I Code se ed standa	nce with the 2018 ections R502.11.1 an ard ANSI/TPI 1.	d							Ø	ESSIONA	L ENGINE

LOAD CASE(S) Standard





In

March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	LAY1	Lay-In Gable	1	1	Job Reference (optional)	145418636

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:33 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.2															
L oading 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 0.04 0.16	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(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	IRC201	8/TPI2014	Matrix-S							Weight: 123 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD JTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF 2x4 SPF 2x4 SPF Structura 6-0-0 oc Rigid ceil bracing. 1 Row at (size)	No.2 No.2 I wood shea purlins. ing directly midpt 1=25-0-8, 16=25-0-8 20=25-0-8	athing directly applie applied or 10-0-0 oc 8-21 14=25-0-8, 15=25-0 8, 17=25-0-8, 18=25- 3, 21=25-0-8, 22=25-	B d or -8, 0-8, N 0-8, N	OT CHORD /EBS OTES	CHORD 1-26=-92/197, 25-26=-92/197, 24-25=-92/197, 23-24=-92/197, 22-23=-92/197, 21-22=-92/197, 20-21=-92/197, 19-20=-92/197, 18-19=-92/197, 17-18=-92/197, 16-17=-92/197, 15-16=-92/197, 14-15=-92/197 S 2-26=-180/122, 3-25=-141/99, 4-24=-152/103, 5-23=-149/111, 6-22=-154/82, 8-21=-169/9, 9-20=-157/117, 10-18=-148/103, 11-17=-150/104, 12-16=-147/102, 13-15=-160/109 ES									nd
	Max Horiz 1=-25 0-8, 21=-25 0-8, 22=-25 0-8, 23=-25 0-8, 24=-25 0-8, 25=-25 0-8, 26=-25 0-8, 26=-25 0-8, 26=-25 0-8, 26=-25 0-8, 26=-25 0, 26=-25				 20=25-0-8, 21=25-0-8, 22=25-0-8, 26=25-0-8, 26=25-0-8 10riz 1=-238 (LC 4) 11-53 (LC 6), 14=-22 (LC 7), 15=-88 (LC 9), 16=-78 (LC 9), 17=-80 (LC 9), 18=-79 (LC 9), 20=-93 (LC 9), 22=-58 (LC 8), 23=-87 (LC 8), 24=-80 (LC 8), 25=-74 (LC 8), 24=-80 (LC 8), 25=-74 (LC 8), 26=-99 (LC 8), 25=-74 (LC 8), 26=-99 (LC 8), 25=-74 (LC 8), 26=-99 (LC 8), 26=-74 (LC 8), 26=-99 (LC 8), 26=-79 (LC 8), 26=-74 (LC 8), 26=-99 (LC 8), 26=-74 (LC 8), 26=-99 (LC 8), 26=-99 (LC 8), 26=-74 (LC 8), 26=-99 (LC 8), 26=-99 (LC 8), 26=-74 (LC 8), 26=-79 (LC 8), 26=-74 (LC 8), 26=-79 (LC 8), 26=-74 (LC 8), 26=-99 (LC 8), 26=-74 (LC										
		15=209 (L 17=191 (L 20=197 (L 22=194 (L 24=193 (L 26=236 (L	.C 16), 16=185 (LC 1 .C 16), 18=188 (LC 1 .C 16), 21=207 (LC 1 .C 16), 21=207 (LC 1 .C 15), 23=188 (LC 1 .C 15), 25=176 (LC 1 .C 15)	(6), 4) (6), 4) (8), 5) (5), 6) (5), 7) (5), 7)	or consult of All plates a Gable requ Gable stud: This truss h chord live k * This truss	ualified building de re 2x4 MT20 unles ires continuous boi s spaced at 2-0-0 c has been designed bad nonconcurrent has been designed	esigner as s otherwi ttom chor oc. for a 10. with any d for a liv	s per ANSI/TP se indicated. d bearing.) psf bottom other live load e load of 20 0	rl 1. ds.			B	STATE OF M	AISSOUR	λ
FORCES	(Ib) - Max Tension 1-2=-261, 4-5=-127 7-8=-49/8 10-11=-7 13-14=-2	(187, 2-3=- (120, 5-6=- 87, 8-9=-80) 7/65, 11-12 20/118	pression/Maximum 174/149, 3-4=-142/12 112/167, 6-7=-91/192 (186, 9-10=-66/109, !=-93/60, 12-13=-141	25, 2, 9 <u>)</u> /86,	on the bott 3-06-00 tall chord and a) Provide me bearing pla 1, 22 lb upl uplift at join 23, 58 lb up uplift at join 16 and 88 l	bar chord in all area by 2-00-00 wide w any other members chanical connection te capable of withs if at joint 14, 99 lb t 25, 80 lb uplift at blift at joint 22, 93 ll t 18, 80 lb uplift at b uplift at joint 15.	as where vill fit betw s. on (by oth tanding 5 uplift at ju joint 24, 5 b uplift at joint 17, 5	a rectangle veen the botto 3 lb uplift at jo int 26, 74 lb 37 lb uplift at j joint 20, 79 lb 78 lb uplift at j	m Dint Dint		-	No.	SEVI PE-2001 PE-2001 March	L ENGINE 31,2021	

NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	LAY2	Lay-In Gable	1	1	Job Reference (optional)	145418637

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:33 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:73.5

Plate Offsets (X, Y): [13:0-2-0,Edge], [22:0-2-4,0-1-4]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.27 0.12 0.17	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loo 1	c) l/defl - n/a - n/a 7 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 167 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SPF I 2x4 SPF I 2x4 SPF I 2x4 SPF I Structural 6-0-0 oc p 2-0-0 oc p	No.2 No.2 No.2 No.2 wood shea purlins, exc purlins, exc purlins (6-0	athing directly appliec sept end verticals, an -0 max.): 1-7.	T d d or d B d	OP CHORD	1-31=-46/26, 1-2=- 3-4=-250/192, 4-5= 6-7=-250/192, 7-8= 9-10=-276/234, 10- 11-12=-250/239, 12 13-14=-156/149, 14 15-16=-178/141, 16 30-31=-375/304, 25 28-29=-111/85, 27-	2-3=-250/192, 12, 5-6=-250/ 13, 8-9=-307/2 3/226, 29/122, 96/182, 53/108 75/304, 1/85,	192, 246,	9) T c 10) * c 3 c 11) F b 3	This truss hord live This trus on the bot -06-00 ta hord and Provide m earing pla -1, 57 lb u	has be load no s has b om cho Il by 2-(any oth echanic ate caps plift at j	en designed for a nconcurrent with een designed for rd in all areas wh 00-00 wide will fit ner members. al connection (by able of withstandi oint 17, 425 lb up	10.0 psf bottom any other live loads. a live load of 20.0psf iere a rectangle between the bottom others) of truss to ng 32 lb uplift at joint lift at joint 30, 533 lb	
BOT CHORD WEBS	Rigid ceili bracing. 1 Row at	ng directly midpt	applied or 9-7-15 oc 16-17, 11-21, 12-20, 14-19, 15-18			26-27=-111/85, 25- 24-25=-111/85, 23- 22-23=-111/85, 21- 20-21=-111/85, 19-	26=-11 24=-11 22=-11 20=-11	1/85, 1/85, 1/85, 1/85, 1/85,		u 2 u je	plift at joi 7, 136 lb plift at joi pint 21, 1	nt 29, 3 uplift at nt 24, 7 6 lb up	4 Ib uplift at joint a t joint 26, 42 Ib up 4 Ib uplift at joint a lift at joint 20, 8 Ib	28, 47 Ib uplift at joint lift at joint 25, 89 lb 23, 112 lb uplift at o uplift at joint 19 and
REACTIONS	(size)	17=25-9-1 19=25-9-1 21=25-9-1 24=25-9-1 26=25-9-1 28=25-9-1	0, 18=25-9-10, 0, 20=25-9-10, 0, 23=25-9-10, 0, 25=25-9-10, 0, 27=25-9-10, 0, 29=25-9-10, 0, 24 - 0 - 10	W	/EBS	2-30=-513/475, 3-2 5-27=-138/71, 6-26 9-24=-157/113, 10- 11-21=-143/137, 12 14-19=-139/31, 15- 2-29=-528/626	9=-141, =-219/1 23=-14 2-20=-2 18=-14	/735 /71, 4-28=-14 60, 8-25=-13 9/97, 05/161, 9/153,	0/58, 9/66,	 94 lb uplift at joint 18. 12) This truss is designed in accordance with the 201 International Residential Code sections R502.11. R802.10.2 and referenced standard ANSI/TPI 1. 13) Graphical purlin representation does not depict th or the orientation of the purlin along the top and/o bottom chord 				
	Max Horiz Max Uplift	31=399 (L 17=-57 (L 19=-8 (LC 21=-112 (l 24=-89 (L 26=-136 (l 28=-34 (L 30=-425 (l	C 5) C 5) C 8), 18=-94 (LC 9), 9), 20=-116 (LC 7), LC 8), 23=-74 (LC 8), C 8), 25=-42 (LC 8), LC 4), 27=-47 (LC 8), C 8), 29=-533 (LC 5), LC 4), 31=-32 (LC 4)	N(1) , 2) ,	OTES Unbalanced this design. Wind: ASCE Vasd=91mp II; Exp C; Er cantilever le right expose	Foof live loads have 7-16; Vult=115mpl h; TCDL=6.0psf; B0 nclosed; MWFRS (e ft and right expose d; Lumber DOL=1.0	e been o h (3-sec CDL=6.0 nvelope l ; end v 60 plate	considered fo cond gust) Dpsf; h=25ft; h e) exterior zon vertical left an grip DOL=1.	bottom chord. LOAD CASE(S) Standard r Cat. ne; d SCOTT M					MISSOLUTE
	Max Grav	17=121 (L 19=179 (L 21=183 (L 24=197 (L 26=259 (L 28=180 (L 30=530 (L	C 16), 18=237 (LC 1 C 1), 20=244 (LC 15 C 21), 23=189 (LC 1 C 15), 25=179 (LC 1 C 16), 27=178 (LC 2 C 21), 29=473 (LC 6 C 7), 31=64 (LC 16)	6), 3)), 5), (1), 4) (), 5) (), 6)	 Truss desig only. For st see Standar or consult q Provide ade All plates ar Gable requi 	ned for wind loads in uds exposed to wind d Industry Gable Er ualified building des quate drainage to p e 2x4 MT20 unless res continuous botto	n the pla d (norm nd Deta igner as revent otherwi om chor	ane of the tru al to the face ils as applica s per ANSI/TI water ponding se indicated. d bearing.	ss), ble, ⊃l 1. g.				SEVI NUM PE-2001	ER BER 018807
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	7) 8)	braced agai	nst lateral movemer spaced at 2-0-0 oc	one rac nt (i.e. d	iagonal web)	-				SIONA	L ENO.

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V1	Valley	1	1	Job Reference (optional)	145418638

5-3-10

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:34 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-3-10

Scale = 1:27

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	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15	вс	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%
LUMBER				8) This truss is	designed in accorda	ance w	ith the 2018						
TOP CHORE	2x4 SPF No.2	2		International	Residential Code s	ections	R502.11.1 a	nd					
BOT CHORE	2x4 SPF No.2	2		R802.10.2 a	nd referenced stand	dard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2	2		LOAD CASE(S)	Standard								
BRACING													
TOP CHORE	Structural wo 5-4-0 oc purli	od shea ins, exc	athing directly applied cept end verticals.	d or									
BOT CHORE	 Rigid ceiling bracing. 	directly	applied or 10-0-0 oc										
REACTIONS	(size) 1=	5-3-10.	3=5-3-10										
	Max Horiz 1=	126 (LC	5)										
	Max Uplift 1=	-18 (LC	8), 3=-62 (LC 8)										
	Max Grav 1=	214 (LC	21), 3=230 (LC 15)										
FORCES	(lb) - Maximu	im Com	pression/Maximum										
	Tension												
TOP CHORE	0 1-2=-117/96,	2-3=-18	32/90										
BOT CHORE	1-3=-45/34												
NOTES													
1) Wind: AS	SCE 7-16; Vult=1	15mph	(3-second gust)										
Vasd=91	mph; TCDL=6.0	psf; BCI	DL=6.0psf; h=25ft; C	at.									
II; Exp C	; Enclosed; MWF	-RS (en	velope) exterior zon	e;									
cantileve	r left and right ex	(posed ;	; end vertical left and										
right exp	osed; Lumber DC	OL=1.60	D plate grip DOL=1.6	0									
2) Truss de	signed for wind i	to wind	(normal to the face)	5								and	The
see Stan	dard Industry Ga	able Enc	(normal to the lace), 1 Details as applicab									OF M	Also
or consu	It qualified buildir	na desia	ner as per ANSI/TP	10,							1	TIE	-00 M
3) Gable re	auires continuou	s botton	n chord bearing.								A	NY score	New Y
4) Gable st	uds spaced at 4-	0-0 oc.	5								A	s scori	M. YAY
5) This trus	s has been desig	gned for	a 10.0 psf bottom								H.	/ SEVI	ER \ X
chord live	e load nonconcu	rrent wit	th any other live load	s.							NO	1 40	0
6) * This tru	ss has been des	signed fo	or a live load of 20.0p	osf							W	att?	Story 1
on the bo	ottom chord in all	areas v	where a rectangle							-	14-0	NUM	BER
3-06-001	all by 2-00-00 wi	ide will f	hit between the botton	m							142	PE-20010	018807
 Z) Provide - 	u any other mem	iders.	by others) of truce to								N	The second	12A
bearing	late canable of v	withstan	iding 18 lb unlift at io	int							X	Ser	O'A
1 and 62	Ib uplift at joint 3	3.										ONA	LER
		-										am	The second

March 31,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V2	Valley	1	1	Job Reference (optional)	145418639

4-0-10

4-0-10

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:34 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Scale = 1:23.8

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.23 BC 0.12 WB 0.00 Matrix-P	DEFL Vert(LL) r Vert(TL) r Horiz(TL) 0.	in (loc) /a - /a - 00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood sh 4-1-0 oc purlins, e Rigid ceiling directl bracing.	eathing directly applie ccept end verticals. y applied or 10-0-0 oc	8) This truss is International R802.10.2 ar LOAD CASE(S) d or	designed in accordance w Residential Code sections nd referenced standard AN Standard	ith the 2018 : R502.11.1 and ISI/TPI 1.					
FORCES	(size) 1=4-0-10 Max Horiz 1=93 (LC Max Uplift 1=-13 (L Max Grav 1=158 (L (lb) - Maximum Con Tension	I, 3=4-0-10 ; 7) C 8), 3=-46 (LC 8) C 1), 3=169 (LC 15) npression/Maximum								
BOT CHORD	1-2=-87/70, 2-3=-1 1-3=-33/25	54/07								
 Wind: ASC Vasd=91rr II; Exp C; I cantilever right expose Truss desi only. For see Stand or consult Gable required Gable stud This truss chord live * This truss on the bott 3-06-00 trus * This truss on the bott 3-06-00 trus * Provide mu bearing pla 1 and 46 lit 	CE 7-16; Vult=115mp hph; TCDL=6.0psf; Bi Enclosed; MWFRS (e left and right exposer sed; Lumber DOL=1. igned for wind loads i studs exposed to win ard Industry Gable E qualified building des uires continuous bott ds spaced at 4-0-0 oc has been designed folad nonconcurrent v s has been designed tom chord in all areas II by 2-00-00 wide wil any other members. echanical connection ate capable of withsta b uplift at joint 3.	n (3-second gust) CDL=6.0psf; h=25ft; C nvelope) exterior zon I; end vertical left and 50 plate grip DOL=1.6 10 the plane of the trus d (normal to the face), nd Details as applicab igner as per ANSI/TP om chord bearing. To ra 10.0 psf bottom rith any other live load for a live load of 20.0 where a rectangle fit between the botto (by others) of truss to nding 13 lb uplift at jo	cat. e; d io io s; le, l 1. ds. psf m o int				2		NUME PE-20010	AISSOLA ER BER D18807

March 31,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V3	Valley	1	1	Job Reference (optional)	145418640

2-9-11

2-9-11

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:34 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2x4 🛚

Page: 1





Scale = 1:20.5

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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 IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.09 0.05 0.00	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: 7 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF N 2x4 SPF N 2x3 SPF N Structural 2-10-1 oc Rigid ceilir bracing.	o.2 o.2 o.2 wood shea purlins, ey ig directly	athing directly applied ccept end verticals. applied or 10-0-0 oc	8) This truss Internatior R802.10.2 LOAD CASE(is designed in accor al Residential Code and referenced star 5) Standard	rdance wi sections ndard AN	th the 2018 R502.11.1 a SI/TPI 1.	nd					
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=2-9-11, 1=60 (LC 1=-8 (LC 8 1=101 (LC	3=2-9-11 5) 8), 3=-29 (LC 8) 5 1), 3=109 (LC 15)										
FORCES	(lb) - Maxiı Tension	num Com	pression/Maximum										
TOP CHORD BOT CHORD	1-2=-56/45 1-3=-21/16	, 2-3=-86/	43										
 Wind: ASC Vasd=91n II; Exp C; cantilever right expo: Truss desi only. For see Stand or consult Gable req Gable stud This truss chord live * This truss on the bot 3-06-00 ta chord and Provide m bearing pl and 29 lb 	CE 7-16; Vult nph; TCDL=€ Enclosed; M left and right sed; Lumber igned for win studs exposs lard Industry qualified bui uires continu ds spaced at has been de load noncon is has been c tom chord in al by 2-00-00 any other m techanical co ate capable e uplift at joint	=115mph .0psf; BCI WFRS (en exposed : DOL=1.6(d loads in d loads in d loads enc ding desig ous bottor 4-0-0 oc. signed for current wit esigned for all areas w wide will f embers. nnection (i of withstan 3.	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone end vertical left and 0 plate grip DOL=1.6 the plane of the truss (normal to the face), 1 Details as applicabl iner as per ANSI/TPI n chord bearing. a 10.0 psf bottom h any other live load or a live load of 20.0p vhere a rectangle it between the bottor by others) of truss to ding 8 lb uplift at join	at. e; 0 s le, 1. 1. s. osf m								State OF M Scott Seven PE-20010 PE-20010	AISSOLLE M. ER DISSO7 LENGT

March 31,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V4	Valley	1	1	Job Reference (optional)	145418641

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 10:11:34 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





2x4 🛛

1-6-10

1-6-10

Scale =	1:19.3
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Loading	(psf)	Spacing	2-0-0	CSI	D	DEFL	in (lo	DC)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC 0.0	02 V	/ert(LL) n/	/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.	01 V	/ert(TL) n/	/a	-	n/a	999		
BCLI	0.0*	Rep Stress Incr	YES	WB 0	00 H	Horiz(TL) = 0.0	0	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P	~ ··	10112(12) 0.0	.0	U	n/a	n/a	Weight: 4 lb	FT = 10%
						:						
LUMBER			This truss is	designed in accordanc	e with	the 2018						
TOP CHORD	2x4 SPF No.2		International	Residential Code secti	ions R	502.11.1 and						
BOT CHORD	2x4 SPF No.2		R802.10.2 a	nd referenced standard	I ANSI/	I/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood shea	athing directly applie	d or									
	1-7-0 oc purlins, exe	cept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc										
REACTIONS	(size) 1=1-6-10,	3=1-6-10										
	Max Horiz 1=27 (LC	5)										
	Max Uplift 1=-4 (LC 8	8), 3=-13 (LC 8)										
	Max Grav 1=45 (LC	1), 3=48 (LC 15)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=-25/20, 2-3=-38/	/19										
BOT CHORD	1-3=-9/7											
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	at.									
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zon	e;									
cantilever	left and right exposed	; end vertical left and	1									
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	0									
Truss des	igned for wind loads in	the plane of the trus	S								000	ADD
only. For	studs exposed to wind	(normal to the face),	,								8. OF M	ALC: A
see Stand	and industry Gable End	d Details as applicab	le,								FIE	0.00
2) Cable reg	uiros continuous bottor	m chord boaring	11.							6	AT	No.V
4) Gable stu	dires continuous Dollor	n onoru bearing.								B	SCOT?	ГМ. \7, УД
5) This trues	has been designed for	r a 10.0 nsf bottom								R	/ SEVI	ER \ Y
chord live	load nonconcurrent wi	th any other live load	IS.						•	Nat		
 6) * This trus 	s has been designed for	or a live load of 20.0	osf							1		
on the bot	tom chord in all areas	where a rectangle	F =						~ ~			
3-06-00 ta	Il by 2-00-00 wide will	fit between the botto	m							87		DIADOT AND
chord and	any other members.									N.	2 PE-20010	10880/ 108810
7) Provide m	echanical connection ((by others) of truss to)							Y	N Pa	154
bearing pl	ate capable of withstar	nding 4 lb uplift at joir	nt 1							0	SION.	TENE
and 13 lb	uplift at joint 3.										WANA	
											Un	0

March 31,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Pitel Institute, 2670 Crain Highway, Suite 2030 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V5	Valley	1	1	Job Reference (optional)	145418642

4-0-2

4-0-2

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 10:11:35 ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2x4 II

Scale -	- 1.19.8
Scale -	- 1.13.0

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-P	0.18 0.10 0.00	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: 10 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she	athing directly appli	8) This truss is Internationa R802.10.2 LOAD CASE(S	s designed in a al Residential (and referenced) Standard	accordance wi Code sections I standard AN	ith the 2018 R502.11.1 ISI/TPI 1.	and					
BOT CHORD	 D Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals. D Rigid ceiling directly applied or 10-0-0 oc bracing. 											
REACTIONS	FIONS (size) 1=4-0-2, 3=4-0-2 Max Horiz 1=59 (LC 5) Max Uplift 1=-21 (LC 8), 3=-33 (LC 8) Max Grav 1=144 (LC 1)											
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC	(lb) - Maximum Com Tension 1-2=-52/35, 2-3=-11 1-3=-19/14 CE 7-16; Vult=115mph	pression/Maximum 2/52 (3-second gust)										

- 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 lb uplift at joint 3.





Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V6	Valley	1	1	Job Reference (optional)	145418643

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7-2-8

Scale = 1:26

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-P	0.19 0.10 0.05	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: 19 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 1=7-2-8, 4 Max Horiz 1=117 (10	athing directly applie cept end verticals. applied or 10-0-0 oc 4=7-2-8, 5=7-2-8	7) 8) ed or LC	Provide mecl bearing plate 4 and 99 lb u This truss is International R802.10.2 ar	nanical connectio capable of withs plift at joint 5. designed in acco Residential Code nd referenced sta Standard	on (by oth standing 2 ordance wi e sections andard AN	ers) of truss t 7 lb uplift at j th the 2018 R502.11.1 a SI/TPI 1.	o oint Ind						
FORCES	Max Uplift 4=-27 (LC Max Grav 1=68 (LC (LC 1) (lb) - Maximum Com	: 8), 5=-99 (LC 8) 16), 4=142 (LC 1), 5 pression/Maximum	5=374											

ension TOP CHORD 1-2=-96/50, 2-3=-90/32, 3-4=-110/45 BOT CHORD 1-5=-38/29, 4-5=-38/29 WEBS 2-5=-291/149

NOTES

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





Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V7	Valley	1	1	Job Reference (optional)	145418644

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10-4-14

Scal	e –	1.33.9	

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/	TPI2014	CSI TC BC WB Matrix-S	0.41 0.22 0.09	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: 29 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling direct bracing. (size) 1=10-4- Max Horiz 1=175 (I Max Uplift 1=-4 (LC (LC 8) Max Grav 1=207 (I (LC 1)	eathing directly applie xcept end verticals. y applied or 10-0-0 oc 14, 4=10-4-14, 5=10-4 .C 7) 5 8), 4=-23 (LC 5), 5=- .C 1), 4=103 (LC 1), 5	7) 8) d or LOA : -14 147 :=553	Provide meci bearing plate 1, 23 lb uplift This truss is International R802.10.2 ar AD CASE(S)	nanical connection capable of withst at joint 4 and 147 designed in accor Residential Code Id referenced star Standard	n (by oth anding 4 ' Ib uplift dance wi sections ndard AN	ers) of truss t Ib uplift at joi at joint 5. ith the 2018 R502.11.1 a ISI/TPI 1.	o nt nd					
FORCES	(lb) - Maximum Co Tension	mpression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=-134/87, 2-3=- 1-5=-57/43, 4-5=-5 2-5=-417/204	111/34, 3-4=-83/35 7/43											
NOTES													
 Wind: ASC Vasd=91m II; Exp C; E cantilever I right expos Truss desig only. For s see Standa or consult (Gable stud This truss I chord live I * This truss on the bott 3:06-00 the bott 3:06-00 the bott 	E 7-16; Vult=115mp ph; TCDL=6.0psf; B Enclosed; MWFRS (left and right expose sed; Lumber DOL=1. gned for wind loads studs exposed to wir ard Industry Gable E qualified building de: uires continuous bott is spaced at 4-0-0 or has been designed load noncourrent is has been designed tom chord in all area II by 2-00-00 wide wi	h (3-second gust) CDL=6.0psf; h=25ft; C envelope) exterior zom d ; end vertical left and 60 plate grip DOL=1.6 n the plane of the trus d (normal to the face) nd Details as applicab igner as per ANSI/TP om chord bearing. ; or a 10.0 psf bottom with any other live load for a live load of 20.0 s where a rectangle I fit between the bottom	Cat. e; d 50 ss , , le, l 1. ds. psf m							2		STATE OF I SCOT SEVI NUM PE-2001	MISSOLA T.M. ER BER 018807

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March 31,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 32 OS	
Lot 32 OS	V8	Valley	1	1	Job Reference (optional)	145418645

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Scale = 1:39.5

		i	_										
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 40 lb	FT = 10%
LUMBER			6)	* This truss h	as been designed f	for a liv	e load of 20.0)psf					
TOP CHORD	2x4 SPF No.2		,	on the bottor	n chord in all areas	where	a rectangle						
BOT CHORD	2x4 SPF No.2			3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	om					
WEBS	2x3 SPF No.2			chord and ar	y other members, v	with BC	DL = 10.0psf						
OTHERS	2x3 SPF No.2		7)	Provide mec	hanical connection	(by oth	ers) of truss t	0					
BRACING				bearing plate	capable of withsta	inding 3	2 lb uplift at j	oint					
TOP CHORD	Structural wood she	athing directly applie	d or	5, 95 lb uplift	at joint 6 and 123 I	lb uplift	at joint 7.						
	6-0-0 oc purlins, ex	cept end verticals.	8)	This truss is	designed in accorda	ance w	ith the 2018						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc		International	Residential Code s	sections	R502.11.1 a	nd					
	bracing.			R802.10.2 a	nd referenced stand	dard AN	ISI/TPI 1.						
REACTIONS	(size) 1=13-7-5,	5=13-7-5, 6=13-7-5,	LO	AD CASE(S)	Standard								
	7=13-7-5												
	Max Horiz 1=233 (LC	C 5)											
	Max Uplift 5=-32 (LC	5), 6=-95 (LC 8), 7=	-123										
	(LC 8)												
	Max Grav 1=209 (LC	C 16), 5=178 (LC 2),											
	6=407 (LC	5 2), 7=471 (LC 2)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-187/72, 2-3=-1- 4-5=-114/45	45/45, 3-4=-120/45,											
BOT CHORD	1-7=-75/57. 6-7=-75	/57. 5-6=-75/57											
WEBS	3-6=-284/137, 2-7=-	349/177											
NOTES	,												2. mga -
1) Wind AS(CE 7-16: Vult=115mph	(3-second qust)										CON	TOP
Vasd=91n	nph: TCDI =6 0 psf: BC	DI = 6 0 psf h = 25 ft C	at									A OF M	AISe
II: Exp C: Enclosed: MWERS (envelope) exterior zone:											1	750	-00,4
cantilever	left and right exposed	; end vertical left and	1								R	SI SCOT	New Y
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	0								A	S/ SCOT	
2) Truss des	igned for wind loads in	the plane of the trus	s								И.	/ SEVI	
only. For	studs exposed to wind	(normal to the face),	,								(IIO	1 1	0 1 * 1
see Stand	lard Industry Gable En	d Details as applicab	le,								W		X ALA
or consult	qualified building desig	gner as per ANSI/TP	l 1.							-		YOUNNINN NIM	
3) Gable req	uires continuous bottor							47	DE 2001	19907 198			

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

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 32 OS				
Lot 32 OS	V9	Valley	1	1	Job Reference (optional)	145418646			

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7-2-12

Coolo	4.4	20 1
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_oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
FCDL	10.0	Lumber DOL	1.15		BC	0.11	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%	
LUMBER TOP CHORD 30T CHORD VEBS)THERS 3RACING TOP CHORD 30T CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 2=7-2-12, Max Horiz 2=134 (LC Max Uplift 2=-1 (LC 4 (LC 8) Max Grav 2=129 (LC (LC 1)	athing directly applie cept end verticals. applied or 10-0-0 or 5=7-2-12, 6=7-2-12 2 5) 4), 5=-24 (LC 8), 6= 2 1), 5=138 (LC 1), 6	6) 7) ed or 8) c 2 -107 6=401	* This truss h on the botton 3-06-00 tall b chord and an Provide mect bearing plate 5, 1 lb uplift a This truss is of International R802.10.2 ar	has been design in chord in all arr by 2-00-00 wide hanical connect e capable of with at joint 2 and 10 designed in acc Residential Coo nd referenced st Standard	ned for a live eas where will fit betw rs. ion (by othe nstanding 2 7 lb uplift a cordance wi de sections tandard AN	e load of 20.0 a rectangle een the botto ers) of truss t 4 lb uplift at j t joint 6. th the 2018 R502.11.1 a SI/TPI 1.	Opsf om to oint						
ORCES	(lb) - Maximum Com Tension	pression/Maximum												
FOP CHORD	1-2=0/8, 2-3=-105/5 4-5=-108/43	7, 3-4=-95/31,												
BOT CHORD	2-6=-43/32, 5-6=-43/	/32												
NEBS	3-6=-311/161													
NOTES														
) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)											Th	
Vasd-01m	nph: TCDI =6 0psf: BC	DI =6 0psf: h=25ft: (Cat									a	-un	

- Vasd=91mpr; TCDL=0.0pst; BCDL=0.0pst; n=25f; Gat II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NUMBER PE-2001018807

March 31,2021



Job	Truss	Truss Type	Qty Ply		Lot 32 OS		
Lot 32 OS	V10	Valley	1	1	Job Reference (optional)	145418647	

2-0-3

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4-9-8

4-9-8

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Loading IDDL [100] (p5) (100] (p5) (100) (p5) (100) (p5) (115) (p5) (115) <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>																
Sull U.U. V.U. Rep Stress inf' YES WB 0.00 Honr(IL) 0.00 3 Na Na Va Weight: 12 lb FT = 10% Weight: 12	Load TCLL TCD	ling _ (roof) L		(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.29 0.16	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144	
LUMER CDP CH08 2x4 SPF No.2 associational Residential Code sections RS02.11.1 and R802.102.2 and referenced standard ANS/TP11. VBBS 2x3 SPF No.2 LOAD CASE(S) Standard DFO CH08 Sizetural wood sheathing directly applied or R010-00 Sizetural wood sheathing directly applied or R02-010.2 and referenced standard ANS/TP11. LOAD CASE(S) Standard DFO CH08 Rigid celling directly applied or 10-0-0 c main usetural wood sheathing directly applied or 10-0-0 c main usetural wood sheathing observed a sper ANS/TP1 1.	BCLI	- L		0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-P	0.00	Horiz(IL)	0.00	3	n/a	n/a	Weight: 12 lb	FT = 10%	
1 and 41 lb uplift at joint 3.	BCD LUM TOP BOT BOT BOT BOT BOT FOR FOR FOR TOP BOT 1) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	L BER CHORD CHORD S CING CHORD	2x4 SPF N 2x4 SPF N 2x3 SPF N Structural 4-10-1 oc Rigid ceilin bracing. (size) Max Horiz Max Horiz Max Grav (lb) - Maxi Tension 1-2=-65/4: 1-3=-24/18 CE 7-16; Vull ph; TCDL=6 Enclosed; M left and right sed; Lumber gned for wir studs expose ard Industry qualified bui irres continu ds spaced at has been de load noncom s has been de load noncor is has been de load noncor any other m echanical cc	10.0 lo.2 lo.2 lo.2 lo.2 lo.2 lo.2 lo.2 lo.2	Code athing directly applie kcept end verticals. applied or 10-0-0 or applied or 10-	IRC2018/TPI2014 8) This truss is International R802.10.2 ar LOAD CASE(S) ed or c Cat. ne; d So	Matrix-P designed in accord Residential Code s nd referenced stand Standard	ance wi	th the 2018 R502.11.1 a ISI/TPI 1.	nd		ر د		Weight: 12 lb	FT = 10%	
	1	and 41 lb	o uplift at joir	nt 3.										GUNA	L	

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