

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

Re: 220004 Lot 2 OS

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I55800270 thru I55800276

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

Missouri COA: Engineering 001193



December 20,2022

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these design barameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

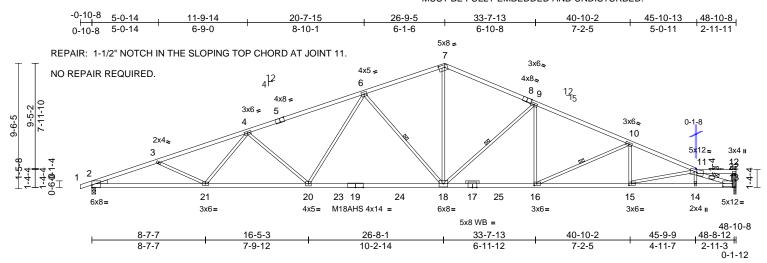
Job	Truss	Truss Type	Qty	Ply	Lot 2 OS		
220004	A6	Roof Special	2	1	Job Reference (optional)	Units: 1.0 Eng: TH	155800270

Wheeler Lumber, Waverly, KS - 66871,

## Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Dec 19 12:21:29 ID:mNMAkoxz07ZFqdnrbi9s3qz6QqR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LUMBER (SHOWN SOLID) TO BE CUT CLEANLY AND ACCÚRATELY AND THE PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.

Page: 1



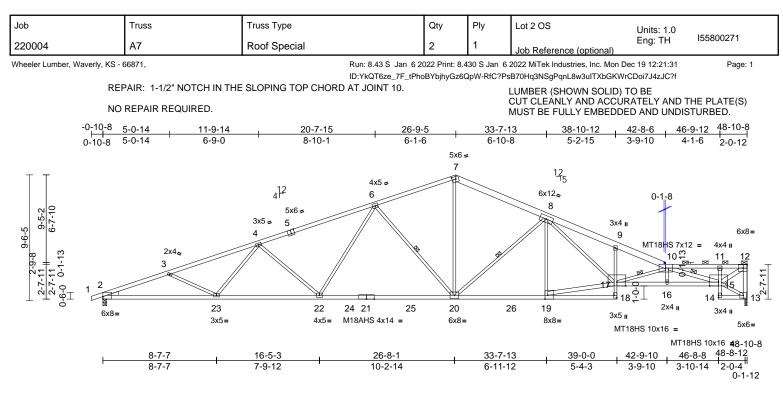
Scale = 1:87.4

Plate Offsets	(X, Y): [2:Edge,0-2-5],	[5:0-4-0,Edge], [7:0	-5-8,0-2-4]	, [8:0-4-0,Edge	e], [13:0-8-8,0-2	-8], [15:0-2	-8,0-1-8], [16	: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	<b>CSI</b> TC BC WB Matrix-S	0.90 0.84 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.74 -1.26 0.29 0.33	(loc) 18-20 18-20 13 18-20	l/defl >793 >461 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 M18AHS Weight: 182 lb	<b>GRIP</b> 197/144 142/136 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS WEDGE BRACING TOP CHORD	SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce 12-13,13-11,13-22:2 2x3 SPF No.2 Left: 2x4 SP No.3	E pt* x4 SPF No.2 athing directly applie	4 <b>NC</b> 1)	DTES 2x4 SPF No. to front face	3-21=-218/194, 6-20=-102/1050 7-18=-225/2023 11-13=-5549/61 10-16=-946/228 11-15=-582/115 2 bearing block with 2 rows of al fasteners. Be	), 6-18=-12 3, 9-18=-11 7, 9-16=-1 3, 10-15=0/- 5 x 12" long a 10d (0.131'	17/351, 01/300, 5/635, 401, 11-14=- t jt. 13 attach x3") nails sp	59/61, ed aced	LOAD	CASE(S)	) Star	ndard	
BOT CHORD	(6-0-0 max.): 11-12. Rigid ceiling directly bracing, Except: 8-3-6 oc bracing: 2-2 9-1-1 oc bracing: 20	applied or 10-0-0 o	2) C 3)	Unbalanced this design. Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef	roof live loads h 7-16; Vult=115 n; TCDL=6.0psf closed; MWFR t and right expo	mph (3-sec ; BCDL=6.0 S (envelope osed ; end v	cond gust) Opsf; h=25ft; e) exterior zo rertical left ar	Cat. ne; nd					
REACTIONS	(size) 2=0-3-8, block), (re Max Horiz 2=167 (LC Max Uplift 2=-371 (L Max Grav 2=2360 (L	C 8) .C 4), 13=-265 (LC 9		Provide adeo All plates are This truss ha chord live loa	d; Lumber DOL quate drainage MT20 plates u is been designe ad nonconcurre	to prevent v inless other ed for a 10.0 nt with any	water pondin wise indicate ) psf bottom other live loa	g. ed. ads.					
FORCES	(lb) - Maximum Com Tension	<i>,</i>	-/ 7)	on the bottor	nas been desigr n chord in all ar	eas where	a rectangle					0000	alle
TOP CHORD	1-2=0/6, 2-3=-5734/ 4-6=-4767/669, 6-7= 7-9=-3457/500, 9-10 10-11=-5232/566, 1	=-3370/487, )=-4332/494,	, 8)	chord and ar Bearing at jo using ANSI/	by 2-00-00 wide by other member int(s) 13 consid IPI 1 angle to g build verify capad	ers, with BC lers parallel rain formula	DL = 10.0ps to grain valu a. Building	f.				STATE OF M	
BOT CHORD	12-13=-150/42 2-21=-894/5322, 20- 18-20=-470/3912, 10 15-16=-487/4790, 1- 13-14=-606/5360	6-18=-319/3928,		Provide mec bearing plate joint 2 and 2 ) This truss is International R802.10.2 a ) Graphical pu	hanical connect capable of with 55 lb uplift at joi designed in acc Residential Co nd referenced s rlin representat ation of the purli	tion (by oth hstanding 3 int 13. cordance w de sections tandard AN ion does no	ers) of truss 1 71 lb uplift a th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	and				PE-2001	Server 018807

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



December 20,2022



Scale = 1:87.4

<b>GRIP</b> 197/144 197/144 142/136
FT = 10%
arallel to grain value ormula. Building bearing surface. y others) of truss to ting 370 lb uplift at acce with the 2018 ctions R502.11.1 and rd ANSI/TPI 1. wes not depict the size og the top and/or MISSOLUTION MISSOLUTION MISSOLUTION MISSOLUTION MISSOLUTION TER UDI 8807

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OP THE BUILDING DESIGNED

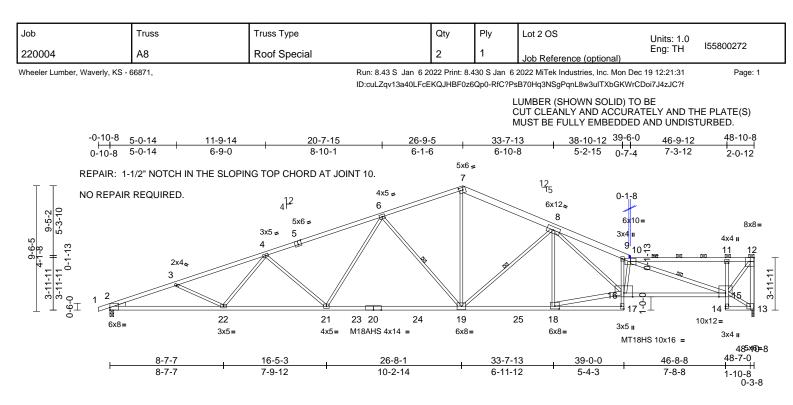
RING BLOCKS, ETC.) December 20,2022

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Plate Offsets (X, X): [2:Edge 0.2.5] [5:0.3.0 Edge] [7:0.3.8 0.2.4] [18:Edge 0.2.8] [19:0.2.8 Edge]

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek



Scale = 1:87.4

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-3-0,Edge], [7:0-3-8,0-2-4], [12:0-3-8,Edge], [17:Edge,0-2-8], [18:0-4-0,0-2-8]													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> 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-S	0.89 0.94 0.99	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.79 -1.35 0.39 0.35	(loc) 19-21 19-21 13 19-21	l/defl >742 >432 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS MT18HS Weight: 211 lb	<b>GRIP</b> 197/144 142/136 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD	2x4 SPF 2100F 1.8E No.2, 10-12:2x4 SPF 2x4 SPF 2100F 1.8E 17-9,11-14:2x3 SPF No.2	F No.2 E *Except*	SPF	BOT CHORD	2-22=-898/5320, 2 19-21=-473/3910, 17-18=-45/199, 10 15-16=-721/6451, 11-15=-501/211, 3 -22=-218/194, 4-	18-19=- 6-17=0/9 14-15=0 13-14=-7	391/3973, 3, 9-16=-47/5 /26, 3/0		9) Pro bea	ng ANSI/ igner sh vide me ring plat	/TPI 1 ould ve chanic te capa	angle to grain for erify capacity of b al connection (by	
WEBS LBR SCAB WEDGE BRACING TOP CHORD	No.2 2x3 SPF No.2 *Exce No.2, 15-10:2x4 SPF 13-12 SPF No.2 on Left: 2x4 SP No.3 Structural wood she	F 2100F 1.8E e side	4 SPF	WEBS	6-21=-102/1050, ( 7-19=-214/2026, 8 8-18=-573/138, 1( 8-16=-377/2895, 10-15=-5020/496, 12-15=-386/2874	6-19=-11 3-19=-11 6-18=-35 10-16=-1	94/347, 31/281, 2/3851, 640/298,	290,	10) This Inte R80 11) Gra or t	s truss is rnationa )2.10.2 a phical p	desig Resid and ref urlin re tation d	ned in accordance dential Code sectorerenced standard	ions R502.11.1 and d ANSI/TPI 1. s not depict the size
BOT CHORD WEBS REACTIONS	except end verticals (3-1-9 max.): 10-12. Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, ( (req. 0-3- Max Horiz 2=175 (LC Max Uplift 2=-368 (L Max Grav 2=2359 (L (lb) - Maximum Com Tension	s, and 2-0-0 oc purli , applied or 2-2-0 oc 6-19, 8-19, 10-15 (req. 0-3-11), 13=0- 10) C 8) C 4), 13=-272 (LC LC 2), 13=2303 (LC npression/Maximum	ns 2-0, 9) 3 22) 4	<ul> <li>this design.</li> <li>Wind: ASC Vasd=91mm II; Exp C; E cantilever luright expositions</li> <li>Provide add</li> <li>All plates a</li> <li>This truss f chord live lu</li> <li>* This truss</li> </ul>	E 7-16; Vult=115m bh; TCDL=6.0psf; E nclosed; MWFRS eft and right expose ed; Lumber DOL=1 equate drainage to re MT20 plates unl has been designed bad nonconcurrent has been designe	cond gust) Dpsf; h=25ft; ( a) exterior zor vertical left an grip DOL=1. water ponding wise indicate 0 psf bottom other live loa e load of 20.0	r Cat. ne; id 60 g. d. ds.	LOAD CASE(S) Standard					
TOP CHORD	1-2=0/6, 2-3=-5732/ 4-6=-4765/659, 6-7= 7-8=-3478/489, 8-9= 9-10=-6856/706, 10- 11-12=-1677/197, 1:	=-3376/476, =-6564/718,  -11=-1738/203,		OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)							L ENGIL		

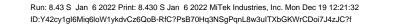
ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER. December 20,2022



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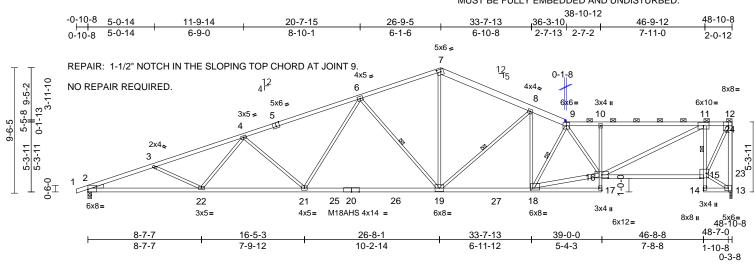
Job	Truss	Truss Type	Qty	Ply	Lot 2 OS	Units: 1.0	
220004	A9	Roof Special	2	1	Job Reference (optional)	Eng: TH	155800273

Wheeler Lumber, Waverly, KS - 66871,



## LUMBER (SHOWN SOLID) TO BE CUT CLEANLY AND ACCURATELY AND THE PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.

Page: 1



Scale = 1:87.4

Plate Offsets (	Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-3-0,Edge], [7:0-3-8,0-2-4], [12:0-3-8,Edge], [15:0-4-4,0-5-12], [16:0-5-12,0-2-12], [17:Edge,0-2-8], [18:0-1-13,0-1-12]															
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.90 0.84 0.96	DEFL Vert(LL) Vert(CT) Horz(CT)	-1.23 0.30	13	l/defl >813 >474 n/a	L/d 360 240 n/a	PLATES MT20 M18AHS	<b>GRIP</b> 197/144 142/136			
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.32	19-21	>999	240	Weight: 216 lb	FT = 10%			
LUMBER TOP CHORD BOT CHORD	2x4 SPF 2100F 1.8E No.2 2x4 SPF 2100F 1.8E 17-10,11-14:2x3 SP SPF No.2	E *Except*	PF :2x4	11-15=-2105/387, 13-14=-69/0           WEBS         3-22=-218/194, 4-22=0/407, 4-21=-857/296,						ng ĂNSI, igner sh vide me iring plai	/TPI 1 iould v chanic te capa	angle to grain for erify capacity of b al connection (by able of withstandi				
WEBS	2x3 SPF No.2 *Exce No.2, 18-16:2x4 SPF		SPF		6-21=-102/1048, 6 7-19=-206/2024, 8	-19=-11 -19=-11	93/347, 19/258,	,	joint 2 and 279 lb uplift at joint 13. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and							
LBR SCAB WEDGE	13-12 SPF No.2 on Left: 2x4 SP No.3	e side		8-18=-3/721, 9-18=-1580/186,						<ul><li>R802.10.2 and referenced standard ANSI/TPI 1.</li><li>12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or</li></ul>						
BRACING TOP CHORD BOT CHORD	Structural wood she except end verticals (2-11-8 max.): 9-12. Rigid ceiling directly	, and 2-0-0 oc purlin	s N	12-15=-371/2613 <b>NOTES</b> 1) Attached 5-3-11 scab 12 to 13, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9"					bottom chord. LOAD CASE(S) Standard							
	bracing. Except:			0.C		,	•									
	1 Row at midpt           (size)         2=0-3-8, ( (req. 0-3-)           Max Horiz         2=219 (L0 2=-364 (L Max Grav           Max Grav         2=2360 (L	C 7) .C 4), 13=-279 (LC 9 .C 2), 13=2304 (LC 2	)	<ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> </ol>						STATE OF MISSOL						
FORCES	(lb) - Maximum Com Tension 1-2=0/6, 2-3=-5734/ 4-6=-4766/648, 6-7= 7-8=-3480/478, 8-9= 9-10=-4571/473, 10 11-12=-1183/131, 12	847, 3-4=-5599/742, =-3379/465, =-4319/461, -11=-4595/474,	6	<ol> <li>Provide adequate drainage to prevent water ponding.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>WARNING: Required bearing size at joint(s) 2, 13</li> </ol>					PE-2001018807							

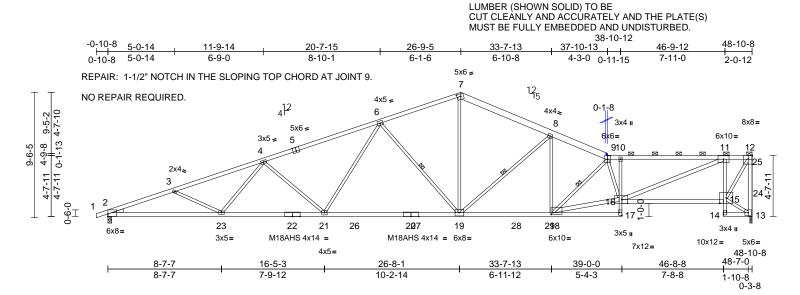
WARNING: Required bearing size at joint(s) 2, 13 greater than input bearing size. SUPPLEMENTARY BEARING PLATES SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPO, BERRING BLOCKE, LTC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

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Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 2 OS		
220004	A10	Roof Special	2	1	Job Reference (optional)	Units: 1.0 Eng: TH	155800274
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.43 S Jan 6 2	022 Print: 8.4	30 S Jan 6	2022 MiTek Industries, Inc. Mon	Dec 19 12:21:32	Page: 1

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Dec 19 12:21:32 ID:5QY4tJ4?KVs8ZppsTNqMk9z6Qng-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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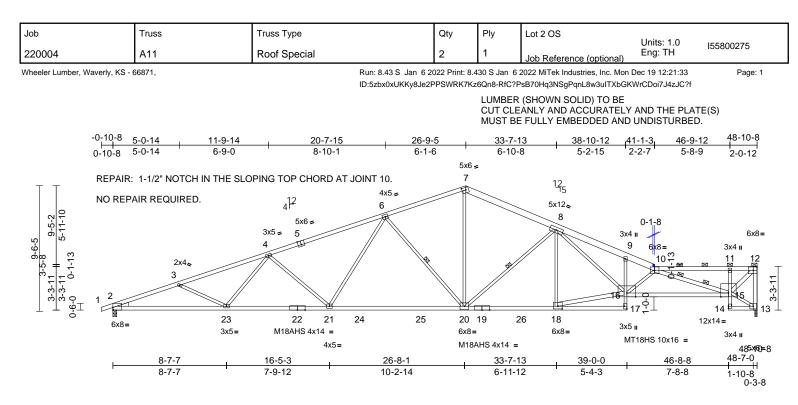
Plate Offsets (	(X, Y): [2:Edge,0-2-5]	, [5:0-3-0,Edge], [7:0	)-3-8,0-2-4]	, [12:0-3-8,Ed	lge], [16:0-5-4,Edg	ie], [17:Eo	dge,0-2-8], [1	8:0-1-10	),0-1-8]						
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.90	Vert(LL)	-0.74	19-21	>791	360	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15		BC	0.85	Vert(CT)	-1.26	19-21	>461	240	M18AHS	142/136		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.96	Horz(CT)	0.32	13	n/a	n/a				
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.33	19-21	>999	240	Weight: 213 lb	FT = 10%		
LUMBER TOP CHORD BOT CHORD WEBS	No.2 2x4 SPF 2100F 1.8I 17-10,11-14:2x3 SP SPF No.2 2x3 SPF No.2 *Exce 18-16,16-11:2x4 SP	E *Except* F No.2, 16-15,14-13 ept* 12-13:2x4 SPF I F 2100F 1.8E	SPF 3:2x4 WI	DT CHORD	2-23=-898/5319, 19-21=-472/3909 17-18=-47/142, 1 15-16=-232/1481 11-15=-2095/379 3-23=-218/194, 4 6-21=-102/1048, 7-19=-210/2021, 9 48 41/702 0 4	, 18-19=-/ 6-17=0/9 , 14-15=0 , 13-14=-/ , 13-14=-/ 6-19=-11 8-19=-11	411/3959, 1, 10-16=-74 //24, 64/0 7, 4-21=-857 93/347, 13/271,	,	usii des 10) Pro bea join 11) Thi Inte	ng ANSI signer sh wide me aring pla at 2 and 3 s truss is ernationa	/TPI 1 nould v chanic te capa 275 lb s desig al Resi	angle to grain for erify capacity of t cal connection (by able of withstandi uplift at joint 13. gned in accordance dential Code sect	earing surface. others) of truss to ng 366 lb uplift at e with the 2018 ions R502.11.1 and		
LBR SCAB	13-12 SPF No.2 on	e side			8-18=-11/702, 9-1 16-18=-552/5392				R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size						
WEDGE BRACING	Left: 2x4 SP No.3				24/87,				epresentation doe						
TOP CHORD	except end verticals (2-5-6 max.): 9-12.	s, and 2-0-0 oc purlin	ns <b>NC</b> 1)	12-15=-379/2730 NOTES 1) Attached 4-7-11 scab 12 to 13, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9"							rd. 5) Sta	ndard			
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc		No.2 with 1 o.c	ails spaced §	9"									
WEBS	1 Row at midpt	6-19, 8-19, 9-18	2)		l roof live loads ha	ve been o	considered fo	or							
REACTIONS	(size) 2=0-3-8, (req. 0-3- Max Horiz 2=188 (Lu Max Uplift 2=-366 (L Max Grav 2=2359 (I	C 5) _C 4), 13=-275 (LC 9	3)	<ul> <li>this design.</li> <li>Wind: ASCE 7-16; Vult=115mph (3-second gust)</li> <li>Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.</li> <li>II; Exp C; Enclosed; MWFRS (envelope) exterior zone;</li> <li>cantilever left and right exposed; end vertical left and</li> <li>right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> </ul>							Ē	STATE OF M	MISSOLA		
FORCES	(lb) - Maximum Con Tension	npression/Maximum	4)	Provide ade	equate drainage to	prevent	water pondin	g.			H.	~/			
TOP CHORD		=-3376/471, =-4343/470,  -11=-5496/570,	, 5) , 6) 7) 8)	<ul> <li>5) All plates are MT20 plates unless otherwise indicated.</li> <li>6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> </ul>						12A					

at joint(s) 2, 13 SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR TDE MEMBER 20, 2020 UPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)

ARE THE RESPONSIBILITY OF OR THE BUILDING DESIGNER 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

greater than input bearing size.

NiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:87.4

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:0-3-0,Edge], [7:0-3-8,0-2-4], [17:Edge,0-2-8], [18:0-4-0,0-2-8]																	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP				
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.90	Vert(LL)	-0.80	20-21	>727	360	MT20	197/144				
TCDL	10.0	Lumber DOL	1.15		BC	0.86	Vert(CT)	-1.38	20-21	>423	240	M18AHS	142/136				
BCLL	0.0*	Rep Stress Incr	YES		WB	0.97	Horz(CT)	0.40	13	n/a	n/a	MT18HS	197/144				
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S		Wind(LL)	0.36	20-21	>999	240	Weight: 209 lb	FT = 10%				
LUMBER TOP CHORD BOT CHORD	No.2, 10-12:2x4 SPI	F No.2		BOT CHORD	2-23=-898/5320, 2 20-21=-473/3910, 17-18=-45/207, 16 15-16=-831/7191,	18-20=- -17=0/9	369/3977, 8, 9-16=-56/80		usii des	ng ĂNSÍ. signer sh	/TPI 1 ould v	angle to grain for erify capacity of b	earing surface.				
	17-9,11-14:2x3 SPF 2400F 2.0E, 14-13:2	No.2, 16-15:2x4 SF 2x4 SPF No.2		11-15=-402/161, 13-14=-61/0         b           WEBS         3-23=-218/194, 4-23=0/406, 4-21=-857/296,         jc								<ul> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 2 and 270 lb uplift at joint 13.</li> <li>This truss is designed in accordance with the 2018</li> </ul>					
WEBS	2x3 SPF No.2 *Exce 12-13,18-16,15-10,1				7-20=-218/2031, 8								ions R502.11.1 and				
LBR SCAB WEDGE BRACING TOP CHORD	12-13 SPF No.2 on Left: 2x4 SP No.3	e side			8-18=-573/134, 16 8-16=-369/2828, 1 10-15=-5227/567, 12-15=-395/3162	-18=-33 0-16=-1	0/3847, 569/273,		R80 11) Gra or t	02.10.2 a aphical p	and ref ourlin re tation o	erenced standard	ANSI/TPI 1. s not depict the size				
	except end verticals (3-4-14 max.): 10-12	s, and 2-0-0 oc purlin	IS		d roof live loads hav	e been	LOAD	CASE(S	) Sta	ndard							
BOT CHORD WEBS REACTIONS FORCES TOP CHORD	Rigid ceiling directly bracing. 1 Row at midpt 2 Rows at 1/3 pts (size) 2=0-3-8, ( req. 0-3- Max Horiz 2=173 (Lo Max Uplift 2=-369 (L Max Grav 2=2359 (I (lb) - Maximum Corr Tension	r applied or 6-0-0 oc 6-20, 8-20 10-15 (req. 0-3-11), 13=0-2 10) C 8) C 4), 13=-270 (LC 9 LC 2), 13=2303 (LC hpression/Maximum /860, 3-4=-5596/756 =-3376/480, =-6505/730, -11=-2269/255,	2-0, 9) 2)	<ul> <li>Vasd=91mj</li> <li>II; Exp C; E</li> <li>cantilever lk</li> <li>right exposi</li> <li>Provide add</li> <li>All plates a</li> <li>This truss f</li> <li>chord live lk</li> <li>* This truss</li> <li>on the bottk</li> <li>3-06-00 tall</li> <li>chord and a</li> <li>WARNING:</li> </ul>	E 7-16; Vult=115mp oh; TCDL=6.0psf; B nclosed; MWFRS (r ff and right expose ed; Lumber DOL=1. equate drainage to p re MT20 plates unle las been designed f bad nonconcurrent v has been designed om chord in all area: by 2-00-00 wide wi any other members, Required bearing size	CDL=6. enveloped; end v 60 plate prevent ess other or a 10. with any l for a live s where Il fit betw with BC size at jo	Opsf; h=25ft; ( e) exterior zor vertical left an- grip DOL=1.0 water ponding wise indicate 0 psf bottom other live load of 20.0 a rectangle veen the bottc DL = 10.0psf	ne; d 60 g. d. ds. 0psf om		,		SCOT. SEVI	ER 018807				
	11-12-2107/230, 1	2-13-2210/213		greater than input bearing size.							505						

WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER. December 20,2022



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

Job	Truss	Truss Type	Qty	Ply	Lot 2 OS	Unite: 1.0	
220004	A12	Roof Special	2	1	Job Reference (optional)	Units: 1.0 Eng: TH	155800276

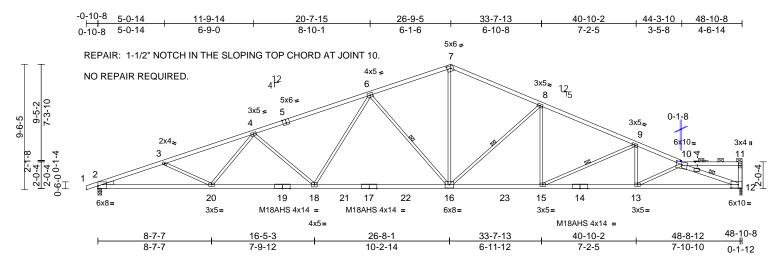
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Dec 19 12:21:33 ID:mNMAkoxz07ZFqdnrbi9s3qz6QqR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

## LUMBER (SHOWN SOLID) TO BE

CUT CLEANLY AND ACCURATELY AND THE PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.

Page: 1



Scale = 1:87.4

Plate Offsets (	(X, Y): [2:Edge,0-2-5],	, [5:0-3-0,Edge], [7:0-	3-8,0-2-4	, [10:0-5-0,0-	2-8], [12:0-6-8,0-3-0	]							
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 IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.90 0.84 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.74 -1.26 0.29 0.33	(loc) 16-18 16-18 12 16-18	l/defl >792 >461 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 184 lb	<b>GRIP</b> 197/144 142/136 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS LBR SCAB WEDGE BRACING TOP CHORD BOT CHORD WEBS REACTIONS	SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce No.2 12-11 SPF No.2 on Left: 2x4 SP No.3 Structural wood she except end verticals (6-0-0 max.): 10-11. Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie athing directly applie , and 2-0-0 oc purlins applied or 8-3-4 oc 6-16, 10-12, 8-16, 9 (req. 0-3-11), 12=0-2 10) C 8) C 4), 12=-266 (LC 9)	SPF N 1) 2) d, 3 15 4) 0, 5) 6)	this design. Wind: ASC Vasd=91m II; Exp C; E cantilever le right expos Provide add All plates a This truss f chord live le * This truss on the bott 3-06-00 tall	E 7-16; Vult=115mp ph; TCDL=6.0psf; B inclosed; MWFRS ( eft and right expose ed; Lumber DOL=1. equate drainage to p re MT20 plates unle has been designed f bad nonconcurrent v has been designed om chord in all areas by 2-00-00 wide wi	-16=-12 0-13=-4 8-16=-1 3=0/457 e been h (3-sec CDL=6. envelop d; end v 60 plate prevent ss other or a 10. with any for a liv s where ll fit betw	17/351, 39/132, 103/300, 9-15=-930/1 considered for cond gust) Dpsf; h=25ft; e) exterior zoo vertical left ar grip DOL=1. water pondin- wise indicate D psf bottom other live loa e load of 20. a rectangle veen the bott	199 Dr Cat. ine; nd .60 g. ed. ads. Opsf tom	or t bot		tation d rd. ) Sta	of the purlin along	
FORCES	(lb) - Maximum Com Tension 1-2=0/6, 2-3=-5734/ 4-6=-4767/668, 6-7= 7-8=-3457/498, 8-9= 9-10=-5210/544, 10- 11-12=-184/67	865, 3-4=-5598/761, 3370/485, 4331/492,	,	<ol> <li>WARNING: Required bearing size at joint(s) 2, 12 greater than input bearing size.</li> <li>Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.</li> </ol>								ER Server	
BOT CHORD		5-16=-321/3930,	10	joint 2 and )) This truss i	te capable of withsta 266 lb uplift at joint s designed in accord al Residential Code and referenced stan	12. dance w	ith the 2018		PLEMEN ER MEAN	TARY BE	Ŷ	PE-2001	ANCHORAGE, OR

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R THE BUILDING DESIG

