

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Re: 240613 Lot 117 MN

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

Pages or sheets covered by this seal: I65302480 thru I65302480

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: Engineering 001193

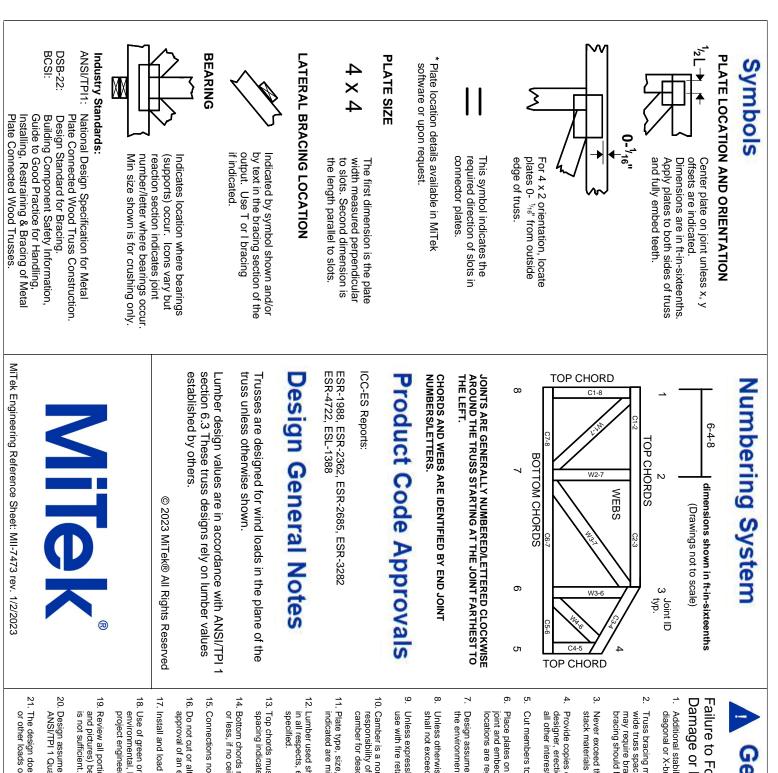


May 2,2024

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

Job	Truss		Truss Type	Truss Type		Ply	Lot 117 N	IN			
240613	A4A		Hip		1	1	Job Dofor	onoo (or	tional	165302480	
Wheeler Lumber, Waverly, I					or 25 2024 Print: JHiXkrBMyQG62			Industries	s, Inc. W	ed May 01 14:46:17 /rCDoi7J4zJC?f	Page: 1
		4-2-2	2	9-11-4	10-8-12		16-5-15	1		20-4-0	
		4-2-2	2	5-9-2	0-9-8		5-9-3			3-10-1	
EXTEND R	GHT END BY	( 1-1/2"			6x6 = 4x8 =	:					
4-11-11 4-11-11	0-10-0 0-10-0	8x8= 1 11	5F 3x6 = 2	0-1-10	3 4			AND G		R TO CARRY THE S AS ONE UNIT.	4 11
	0				10 9	4 =	8			4x8	
INSTALL 2 ) RIPPED TO CUT TO FIT		P NO.2	+ + + + + + + + RIPPED M	< 2 LAYERS > 3/4" ACE OF TRUSS W IGMBER - 1 ROW, EMBER END DIST/	'ITH (0.131" X 3 2 X 3'S - 2 ROW	0") NAILS F S, 2 X 4'S -	PER THE FOLL 3 ROWS, 2 X ( YERS TOGET	OWING N 5'S AND L	IAIL SC .ARGEF	HEDULE: R - 4 ROWS: SPAC	
Scale = 1:46.9			9-10-0		1-0-0			5-0-0			
Plate Offsets (X, Y): [1:	Edge,0-3-4]				· · · · ·						
<b>_oading</b> FCLL (roof) FCDL SCLL SCDL	(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	0.77 Ve 0.64 Ho	t(LL)	in (loc) -0.20 10-11 -0.41 10-11 0.04 7 0.03 10	l/defl >999 >583 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 77 lb	<b>GRIP</b> 197/144 FT = 10%
No.2 BRACING TOP CHORD Structur 4-4-14 ( 2-0-0 of BOT CHORD Rigid ce bracing. REACTIONS (size) Max Hori: Max Uplif Max Uplif Max Grav FORCES (lb) - Ma Tension TOP CHORD 1-2=-35 4-5=-12 6-7=-15 BOT CHORD 10-11=- 7-9=-19 WEBS 2-10=-3 2-10=-3 2-10=-2 2-11=-1 NOTES 1) Unbalanced roof live this design. 2) Wind: ASCE 7-16; V Vasd=91mph; TCDL II; Exp C; Enclosed; cantilever left and rig right exposed; Lumb	No.2 No.2 *Exce al wood she copurlins, e purlins (5-5 iling directly 7= Mecha z 11=51 (Lt t 7=-111 (Lt 7=902 (Lt tximum Com 6/0, 2-3=-12 08/128, 5-6= 8/17 251/1307, 9 0/1224 29/222, 3-10 29/222, 3-10 29/222, 3-10 21/174, 4-9= 213/280, 5-7 e loads have fult=115mph =6.0psf; BC MWFRS (er ght exposed ainage to pr	C 9), 11=-113 (LC 8) C 1), 11=902 (LC 1) pression/Maximum 08/122, 3-4=-1042/14 271/0, 1-11=-210/26 -10=-31/1044, )=-51/361, 7/186, 5-9=-251/203 7=-1238/271 been considered for (3-second gust) :DL=6.0psf; h=25ft; C nvelope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 event water ponding.	on the botto 3-06-00 tall chord and a 6) All bearings 7) Refer to gird 8) Provide med bearing plat 11 and 111 9) This truss is Internationa R802.10.2 a 10) Graphical pu or the orient bottom chor LOAD CASE(S) 46, 5, 8, 41, 46, 56, 46, 56, 46, 56, 46, 56, 46, 56, 46, 56, 46, 56, 46, 56, 56, 56, 56, 56, 56, 56, 5		as where a rec will fit between S. pe SPF No.2 truss connection (by others) standing 113 ll ordance with the e sections R5(2 andard ANSI/T on does not de	tangle the botton of truss to o uplift at jo e 2018 (2.11.1 and PI 1. pict the siz	n bint	-		STATE OF M STATE OF M SCOTT SEVI SCOTT SEVI NUMI PE-20010	ER BER 018807
chord live load nonc	oncurrent w	ith any other live load	S.	K REFERENCE PAGE	MII-7473 rev. 1/2/	2023 BEFORI	E USE.				ay 2,2024

WARNING - Verify design parameters and KEAD NOTES ON THIS AND INCLUDED MITEX REFERENCE PAGE MIL-/4/3 rev. 1/2/20/3 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com) 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.