

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

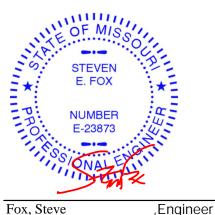
Re: 210521 Lot 142 W0

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: I51532442 thru I51532442

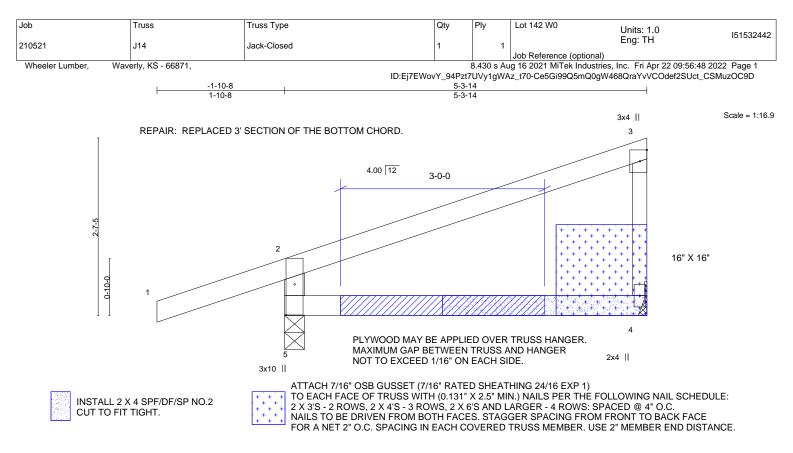
My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: Engineering 001193



April 22,2022

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 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.



APPLY 2 X 4 X 3' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS CENTERED ON SPLICE OR AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 1 ROW, 2 X 4'S - 2 ROWS, 2 X 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

		5-3-1				
Plate Offsets (X,Y) [5:0-5-6,0-1-8]						
LOADING (psf) SPACING- 2-0 TCLL 25.0 Plate Grip DOL 1.1 TCDL 10.0 Lumber DOL 1.1 BCLL 0.0 * Rep Stress Incr YE BCDL 10.0 Code IRC2018/TPI2014 10	5 TC 0.29 5 BC 0.20	DEFL. in Vert(LL) -0.03 Vert(CT) -0.05 Horz(CT) -0.00 Wind(LL) 0.01	4-5 >999 4-5 >999 4 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.			
REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=112(LC 5) Max Uplift 5=-136(LC 4), 4=-43(LC 8) Max Grav 5=398(LC 1), 4=200(LC 1)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-352/170						

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NOTES-

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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 5 and 43 lb uplift at joint 4.

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



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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 preven tbuckling 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 sand 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

