

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

11/09/2020

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

Re: 400279 Lot 62 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: I43442661 thru I43442661

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

Missouri COA: Engineering 001193

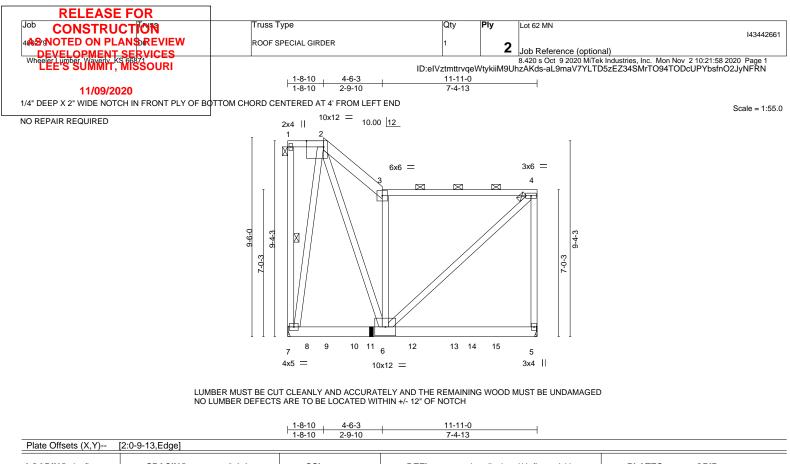


November 2,2020

Sevier, Scott

,Engineer

**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.



		1-8-10 4-6-3 1-8-10 2-9-10	11-11-0							
Plate Offsets (X,Y)	[2:0-9-13,Edge]	1-8-10 2-9-10	7-4-13							
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *+	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	<b>CSI.</b> TC 0.54 BC 0.57 WB 0.83	Vert(LL) -0.13 Vert(CT) -0.23 Horz(CT) 0.00	5-6 >613 5 n/a	360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08	5-6 >999	240	Weight: 200 lb	FT = 10%			
BOT CHORD 2-3: 2x6 BOT CHORD 2x6 SP WEBS 2x4 SPI REACTIONS. (lb/size Max Ho	F No.2 ) 7=3010/Mechanical, 5=2927/Mecha prz 7=-347(LC 23)	nical	BRACING- TOP CHORD BOT CHORD WEBS	end verticals,	and 2-0-0 oc pur lirectly applied or	ctly applied or 6-0-0 c lins (6-0-0 max.): 1-2, 10-0-0 oc bracing. 7				
<ul> <li>Max Hoiz 7=-347(LC 23) Max Uplit 7=-38(LC 2), 5=-485(LC 5) Max Grav 7=3144(LC 2), 5=-2855(LC 2)</li> <li>FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown.</li> <li>TOP CHORD 2-3-3=2403(59, 3-4-=1819)362</li> <li>BOT CHORD 7-8=-266/576, 8-9=-266/576, 9-10=-266/576, 0-11=-266/576</li> <li>WEBS 2-7=2708/438, 2-6=-534/4294, 3-6=-1881/394, 4-6=-388/2353</li> <li>NOTES-</li> <li>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. 246 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. 246 - 2 rows staggered at 0-9-0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 246 - 2 rows staggered at 0-9-0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 246 - 2 rows staggered at 0-9-0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 246 - 2 rows staggered at 0-9-0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.</li> <li>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.</li> <li>3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Yad=91mph; TCDL=6.0psf; BcDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; canilever left and right exposed; end vertical left and right exposed; clumber DOL=1.60</li> <li>4) Provide adequate drainage to prevent water ponding.</li> <li>6) This truss has been designed for a 10.0 psf 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, with BCDL = 10.0 psf.</li> <li>7) Refer to girder(6) for truss to truss to bearing plate capable of withstanding 438 lb uplift at joint 7 and 485 lb uplift at joint 7 and 485 lb uplift at joint 7 and 485 lb uplift at joint 7.</li> <li>8) Provide mechani</li></ul>										
<ul><li>12) Graphical purlin rep</li><li>13) Hanger(s) or other</li><li>1-11-12, 1084 lb do</li></ul>	ded use of this truss. resentation does not depict the size or t connection device(s) shall be provided s wn and 232 lb up at 3-11-12, 974 lb do d 196 lb up at 9-11-12 on bottom chord	ufficient to support concen vn and 63 lb up at 5-11-13	trated load(s) 1081 lb d 2, and 1004 lb down and	own and 77 lb d 63 lb up at  7	·11-12,	November				
Design valid for use only w a truss system. Before use building design. Bracing ir is always required for stabi fabrication, storage, delive	In parameters and READ NOTES ON THIS AND INC ith MITek® connectors. This design is based only the building designer must verify the applicability idicated is to prevent buckling of individual truss we lity and to prevent collapse with possible personal ry, erection and bracing of trusses and truss systen able from Truss Plate Institute, 2670 Crain Highway	pon parameters shown, and is for of design parameters and properl b and/or chord members only. A njury and property damage. For is, see <b>ANSI/TPI1 Qual</b>	r an individual building compo y incorporate this design into t dditional temporary and perma	nent, not he overall anent bracing e	nent	16023 Swingley Rid Chesterfield, MO 63				

RELEASE FOR	1											
	Truss Type	Qty	Ply	Lot 62 MN								
4确分NOTED ON PLAN多REVIEW	ROOF SPECIAL GIRDER	1	2		I43442661							
DEVELOPMENT SERVICES Wheeler Lumber Wavery KS 66871 LEE'S SUMMIT, MISSOURI				Job Reference (optional) 8.420 s Oct 9 2020 MiTek Industries, Inc.	Mon Nov 2 10:21:58 2020 Page 2							
LEE'S SUMMIT, MISSOURI		ID:eIVztmttrvqe\	NtykiiM9UI	hzAKds-aL9maV7YLTD5zEZ34SMrT0	O94TODcUPYbsfnO2JyNFRN							
LOAD CASE(S)/(S)/2020 Except:												
<ol> <li>Dead + Roof Live (balanced): Lumber Incre Uniform Loads (plf)</li> </ol>	ase=1.15, Plate Increase=1.15											
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5	-7=-20											
Concentrated Loads (lb) Vert: 9=-1028(B) 11=-1048(B) 12=-940(B) 13=-938(B) 15=-937(B)												
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15												
Uniform Loads (plf) Vert: 1-2=-58, 2-3=-57, 3-4=-58, 7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50												
Concentrated Loads (lb)	Concentrated Loads (lb)											
Vert: 9=-1081(B) 11=-1084(B) 12= 14) Dead + Uninhabitable Attic Storage: Lum												
Uniform Loads (plf)												
Vert: 1-2=-20, 2-3=-20, 3-4=-20, Concentrated Loads (lb)	7-8=-40, 8-10=-60, 10-14=-40, 5-14=-60											
Vert: 9=-711(B) 11=-700(B) 12=-	Vert: 9=-711(B) 11=-700(B) 12=-630(B) 13=-671(B) 15=-406(B)											
15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)												
u ,	Vert: 1-2=-36, 2-3=-49, 3-4=-49, 7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Horz: 1-7=21, 2-3=9, 4-5=7 Drag: 1-2=0												
Concentrated Loads (lb)												
Vert: 9=-7(B) 11=108(B) 12=-12(	B) 13=-12(B) 15=88(B) nab. Attic Storage + 0.75(0.6 MWFRS Wind (Ne	a Int) Right): Lumbo	r Incrosed	-1 60 Plate Increase-1 60								
Uniform Loads (plf)	ab. Alle Slorage + 0.75(0.0 MWFRS Wind (Ne	g. Int) Right). Lumbe	i increase									
Vert: 1-2=-36, 2-3=-69, 3-4=-36, Horz: 1-7=-7, 2-3=-11, 4-5=-21	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Drag: 1-2=0												
Concentrated Loads (lb)	P(12 - 12) P(15 - 99) P(15 - 99											
Vert: 9=-7(B) 11=108(B) 12=-12( 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninh	nab. Attic Storage + 0.75(0.6 MWFRS Wind (Ne	eg. Int) 1st Parallel): I	umber Ind	crease=1.60, Plate Increase=1.60								
Uniform Loads (plf)	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Horz: 1-7=19, 2-3=9, 4-5=6	7-0=-33, 0-10=-30, 10-14=-33, 3-14=-30											
Drag: 1-2=0 Concentrated Loads (Ib)												
Vert: 9=-7(B) 11=108(B) 12=-12(												
<ol> <li>Dead + 0.75 Roof Live (bal.) + 0.75 Uninh Uniform Loads (plf)</li> </ol>	hab. Attic Storage + 0.75(0.6 MWFRS Wind (Ne	eg. Int) 2nd Parallel):	Lumber In	crease=1.60, Plate Increase=1.60								
Vert: 1-2=-49, 2-3=-36, 3-4=-36,	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Horz: 1-7=-6, 2-3=22, 4-5=-19 Drag: 1-2=0												
Concentrated Loads (lb)												
Vert: 9=-7(B) 11=108(B) 12=-12( 31) Reversal: Dead + 0.75 Roof Live (bal.) +	B) 13=-12(B) 15=88(B) 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS	S Wind (Nea. Int) Left	): Lumber	Increase=1.60. Plate Increase=1.6	30							
Uniform Loads (plf)	J V		,									
Vert: 1-2=-36, 2-3=-49, 3-4=-49, Horz: 1-7=21, 2-3=9, 4-5=7	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Drag: 1-2=0												
Concentrated Loads (lb) Vert: 9=-998(B) 11=-1002(B) 12=	=-900(B) 13=-923(B) 15=-778(B)											
32) Reversal: Dead + 0.75 Roof Live (bal.) + Increase=1.60, Plate Increase=1.60	0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS	8 Wind (Neg. Int) Rig	ht): Lumbe	er								
Uniform Loads (plf)												
Vert: 1-2=-36, 2-3=-69, 3-4=-36, Horz: 1-7=-7, 2-3=-11, 4-5=-21	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Drag: 1-2=0												
Concentrated Loads (lb) Vert: 9=-998(B) 11=-1002(B) 12=	900(B) 13923(B) 15778(B)											
33) Reversal: Dead + 0.75 Roof Live (bal.) +	0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS	Wind (Neg. Int) 1st	Parallel): I	Lumber								
Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)												
Vert: 1-2=-49, 2-3=-49, 3-4=-49,	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Horz: 1-7=19, 2-3=9, 4-5=6 Drag: 1-2=0												
Concentrated Loads (lb)												
Vert: 9=-998(B) 11=-1002(B) 12= 34) Reversal: Dead + 0 75 Roof Live (bal.) +	=-900(B) 13=-923(B) 15=-778(B) 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS	Wind (Neg. Int) 2nd	Parallel).	Lumber								
Increase=1.60, Plate Increase=1.60		,	i alalioi)i	2011001								
Uniform Loads (plf) Vert: 1-2=-49, 2-3=-36, 3-4=-36,	7-8=-35, 8-10=-50, 10-14=-35, 5-14=-50											
Horz: 1-7=-6, 2-3=22, 4-5=-19												
Drag: 1-2=0 Concentrated Loads (Ib)												
Vert: 9=-998(B) 11=-1002(B) 12=	900(B) 13=-923(B) 15=-778(B)											

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



