

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

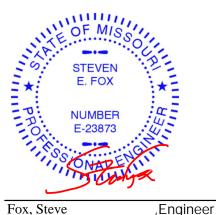
Re: P230318-02 Roof - Osage Lot 5 A1-A4 Repair

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Pages or sheets covered by this seal: I61909933 thru I61909936

My license renewal date for the state of Missouri is December 31, 2024.

Missouri COA: Engineering 001193



November 9,2023

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.

Lab	- -		Tauga Tauga		04	Dist		
Job	Truss		Truss Type	atural Calls	Qty	Ply	Roof - Osage Lot 5 A1-A4 Repair	161909933
P230318-02	A1		Roof Special Stru		1		Job Reference (optional)	
Premier Building Supply	(opringhili, KS), S	spring Hills, KS - 66083,					2023 MiTek Industries, Inc. Thu Nov 09 13:3 n2d_Gmx?cYIDiEd7LDuFKMUV4hnABkCyyk	•
REPAIR: STUB RIGHT ENE	D 4".							49-11-0 48-8-8
F	11-0 <u>6-10-</u> 1-0 6-10-		<u>14 13-5-15 20-6</u> 4 0-7-1 7-0-		3-8-1 -2-0		<u>10-11 35-9-14 41-7-3 42-1-3</u> H 2-10 0-11-3 5-9-5 0-6-0	48-8-0 48-6-4 HI 6-1-2 0-3-15 0-1-12 0-0-8 1-2-8
10-2-1 1-15 9-44 10-1-14 1-15 8-11-6 0-9-10 7-3 1	3x8 = 3x8 = 3 47 2	4	41 ² 3x6 = 5 6	4x6 = 44 7	6x6,* 8		13 45 15 12 5 4 14 19 12 5 4 16 18 00	4-0-0 29 31 30 +29 33 35 sc +32 +4
-7-7-0	⊠ 6x12=	42 3x6=	41 40 MT18HS 3x10 =)	3938 MT18HS 3x1	0 =	37 36 6x6=	34 0-4-0
		8-11 8-11	4x <u>17-1-1</u> 8-4-6	6= <u>26-9-7</u> 9-8-6	5x8=	<u>34-10</u> 8-1-		<u>48-8-0</u> 6-6-13
Scale = 1:89.2 Plate Offsets (X, Y): Loading	TO ONE FACE 1 2 X 3'S - 2 ROW USE 2" MEMBE [8:0-4-0,0-2-7] (psf)	OF TRUSS WITH (0.13) (S, 2 X 4'S - 3 ROWS, 2 R END DISTANCE. GLU , [9:0-3-7,0-3-0], [16:0 Spacing	0 OR OSB GUSSET (23/ I" X 3.0") NAILS PER TH X 6'S AND LARGER - 4 JE PLYWOOD LAYERS -4-0,0-2-0], [37:0-3-0, 2-0-0	E FOLLOWING NAIL SC ROWS: SPACED @ 2' C TOGETHER PRIOR TO Edge] CSI	HEDULE: D.C. ATTACHING	TO TRUSS.	INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT. in (loc) I/defl L/d PLATES	GRIP
TCLL (roof) TCDL BCLL	25.0 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 1.15 NO	TC BC WB		(CT) -0	.45 38-40 >999 240 MT20 .95 38-40 >617 180 MT18HS .27 34 n/a n/a	244/190 244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH		_(Weight: 26	64 lb FT = 20%
BOT CHORD 2.0E, 2.x4 S WEBS 2.x3 S OTHERS 2.x3 S SLIDER Left 2 BRACING 2-6-8 BOT CHORD Structor BOT CHORD Rigid braci 1 Ro JOINTS 1 Brancing REACTIONS 1 Ro JOINTS 1 Brancing REACTIONS 1 (Ling) Max H Max H	6-9:2x4 SP 16 SP 2400F 2.0E 9,39-37:2x4 SP SPF No.2 *Excat :2x4 SPF No.2 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.3 - ctural wood shee 3 oc purlins. 4 ceiling directly ng. w at midpt ace at Jt(s): 10, 4, 16, 20, 22, 8, 30, 32 e) 2=2256/0 oriz 2=208 (Lu plift 2=-412 (L Maximum Con	*Except* 1650F 1.5E ept* 7-38:2x4 SP No.2 - 3-6-9 eathing directly applied r applied or 7-9-10 oc 7-38, 17-38, 26-37 -3-8, 34=2277/0-3-8	d or BOT CHORD	$\begin{array}{l} 1-2=0/0, 2\cdot3=-5377/\\ 4\cdot43=-5271/1081, 4\\ 5\cdot6=-4345/906, 6\cdot7=\\ 7\cdot44=-3130/747, 8\cdot4\\ 8\cdot9=-171/421, 9\cdot11=\\ 11\cdot13=-152/402, 13\\ 15\cdot45=-158/376, 15\\ 19\cdot21=-99/297, 21\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 23\cdot25=-78/241, 25\cdot2\\ 24\cdot26=-4116/677, 29:3\\ 10\cdot12=-3105/396, 12\\ 11\cdot16=-3105/400, 22\\ 24\cdot26=-4116/677, 22\\ 24\cdot26=-4116/677, 22\\ 24\cdot26=-4116/677, 23\\ 32\cdot34=-4821/872\\ 2\cdot42=-970/4954, 41\cdot40-41=-840/4570, 33\\ 38\cdot39=-620/3667, 33\\ 38\cdot39=-77/63, 4\cdot42=540\\ 7\cdot38=-1181/365, 8\cdot33\\ 17\cdot38=-1080/249, 11-26\\ 37:377/250, 26\\ 33\cdot34=-239/222\\ \end{array}$	5=-5135/10- -4331/935, 4=-3005/76 4=-3005/76 45=-144/38, 19=-108/32; 3=-102/280 7=-88/233, 1=-52/156, 5=0/38, 8-11 2-14=-3133/ 5-17=-3285// 42=-840/45 3-20=-4062// 32=-4790// 42=-840/45 3-24=-4062// 32=-4790// 42=-840/45 3-24=-4062//	48, 1, 3, 5, , 0=-3089/45 424, 495, 621, 648, 788, 847, 70, 667, 773, 428 -14=-54/33, , -42=-50/440 6,	 Vasd=91mph; TCDL=6.0psf; I Ke=0.96; Cat. II; Exp C; Enclt exterior zone and C-C Exterio Interior (1) 4-1-0 to 28-8-1, Ex 33-8-1, Interior (1) 33-8-1 to 4 and right exposed; end vertic exposed; C-C for members an reactions shown; Lumber DOI DOL=1.60 1, 3) Truss designed for wind load only. For studs exposed to wi see Standard Industry Gable or consult qualified building de 4) All plates are MT20 plates uni 5) All plates are 3x4 MT20 unles 6) Gable studs spaced at 2-0-0 of 7) This truss has been designed chord live load nonconcurrent 8) N/A 	BCDL=6.0psf; h=35ft; used; MWFRS (envelope) r(2E) -0-11-0 to 4-1-0, tterior(2R) 28-8-1 to 9-11-0 zone; cantilever left al left and right d forces & MWFRS for L=1.60 plate grip s in the plane of the truss ind (normal to the face), End Details as applicable, esigner as per ANSI/TPI 1. ess otherwise indicated. s otherwise indicated. s otherwise indicated. pc. for a 10.0 psf bottom
			NOTES 1) Unbalance this design	ed roof live loads have I.	been consic	dered for		ember 9,2023

NOTES

> **MiTek**[®] 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

November 9,2023

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent parameters and/or chord members only. Additional temporary and permanent provide the overall 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 russ systems, see ANS/ITPI1 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)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5 A1-A4 Repair	
P230318-02	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	161909933

- This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 1100 from left end and 1100 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 13:31:24 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-8NG5aun2d_Gmx?cYIDiEd7LDuFKMUV4hnABkCyyKv?o

Page: 2

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. 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/TPI 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)



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5 A1-A4 Repair	
P230318-02	A2	Roof Special	2	1	Job Reference (optional)	161909934

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 13:49:23

ID:kkw6VMCTKypljEPYbt576Oz_rGt-W9WNFBrVHpLWWzA6115VPt4mubylX_If7Cpu6MyKukw REPAIR STUB RIGHT END 4". -0-11-0 6-10-0 12-10-14 20-6-1 28-8-1 34-10-11 42-1-3 44-9-12 6-10-0 6-0-14 7-7-3 8-2-0 6-2-10 7-2-7 2-8-9 0-11-0 5x5 = 8 3x6**≈** ₄]2 25 4x6 **₌** 26 9 7 12 15 3x6 = 3x6**≈** 3x6 **≠** 3x6**≈** 10-1-14 10-2-1 56 101 3x4。 12 3x8 = 4 3 3x8 24 Ϋ́́ 23 22 21 20 19 18 17 16 6x12= MT18HS 3x10 = MT18HS 3x10 = 3x6= 5x5= 6x6= 4x6= 5x8= 8-8-11 34-10-12 17-1-1 28-8-1 42-1-3 44-9-12 8-8-11 11-7-0 8-4-6 6-2-11 7-2-7 2-8-9 ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131* X.25* MIN.) NAILS PER THING 3210 EACH) TO EACH FACE OF TRUSS WITH (0.131* X.25* MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4* 0.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2* 0.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2* MEMBER END DISTANCE. INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT. Scale = 1:88.3 Plate Offsets (X, Y): [8:0-2-15,0-2-8], [13:0-2-12,0-2-8], [17:0-2-8,0-3-0], [18:0-2-8,0-3-0]

		1			· · · · · ·		· · · ·	-				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	0.94	Vert(LL)	-0.41	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.92	Vert(CT)	-0.97	19-21	>598	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO		WB	0.87	Horz(CT)	0.20	15	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-SH		,					Weight: 241 lb	FT = 20%
LUMBER		-		IOTES								-	
TOP CHORD	2x4 SP 1650F 1 5F	*Except* 10-14:2x4 S			roof live loads hav	e heen	considered fo	r					
	No.2, 6-8:2x4 SP 24		,, ,	this design.		C DCCII		,,					
BOT CHORD	,	*Except* 18-20:2x4 S	P 2	•	7-16; Vult=115mp	h (3-se	cond gust)						
Bot offord	1650F 1.5E			,	h; TCDL=6.0psf; B								
WEBS		ept* 17-13,19-7:2x4 S	Р		t. II; Exp C; Enclos		1 / /	pe)					
		2-24,24-16:2x4 SPF I		exterior zone	and C-C Exterior	(2E) -0-	11-0 to 4-1-0,						
SLIDER	Left 2x4 SPF No.3 -			Interior (1) 4	-1-0 to 28-8-1, Exte	erior(2R) 28-8-1 to						
BRACING				33-8-1, Inter	ior (1) 33-8-1 to 49	-11-0 zo	one; cantileve	er left					
TOP CHORD	Structural wood she	athing directly applied	d or		oosed ; end vertica								
	2-0-2 oc purlins.	5			c for members and			r					
BOT CHORD	Rigid ceiling directly	applied or 8-5-7 oc			own; Lumber DOL:	=1.60 pl	ate grip						
	bracing.			DOL=1.60									
WEBS	1 Row at midpt	11-18, 7-19, 9-19		, I	MT20 plates unle			ea.					
REACTIONS	(lb/size) 2=2247/0	-3-8, 15=2282/0-3-8	4	,	is been designed f			do					
	Max Horiz 2=207 (Le	C 12)	F	i) N/A	ad nonconcurrent v	with any	other live loa	ias.					
	Max Uplift 2=-411 (L	C 8), 15=-306 (LC 13	5)) N/A									
FORCES	(lb) - Maximum Con	npression/Maximum	F	 This truss is 	designed in accord	dance w	ith the 2018						
	Tension				Residential Code			nd					
TOP CHORD	1-2=0/0, 2-3=-5348/	1061, 3-4=-5262/107	9,		nd referenced stan								
	4-5=-5115/1045, 5-6	,	L	OAD CASE(S)	Standard								1117
	6-7=-4315/922, 7-25	,		(-)								Nº OF /	MISSI
	8-25=-2768/720, 8-2											144	0.1
	9-26=-2937/716, 9-1	,									1	18	
	10-11=-3326/724, 1 12-13=-3183/634, 1										-	STEV	FN ??
BOT CHORD	2-23=-968/4946, 22										-		NY -
BOTCHORD	21-22=-825/4534, 2	,									= *		*=
	19-20=-622/3662, 1										=		mar =
	17-18=-509/2891, 1										- 7		BER C
	15-16=-138/382										= 5		• 41-
WEBS	17-24=-408/2573, 1	3-24=-596/3323,									-	E-238	513
	4-23=-245/182, 8-19	9=-290/1518,									1	A	-
		17=-468/169, 9-18=0/	200,									1.08/000	ENIN
	11-18=-73/225, 7-19	,										UNA	L
	,	=-658/263, 7-21=-88/8	366,										
	13-15=-2168/544, 1	,										Novembe	er 9,2023
	12-24=-200/114, 16	-24=0/113											
	IING - Verify design parame	eters and READ NOTES ON	THIS AN			II-7473 re	(1/2/2023 BEEC	REUSE					R R
Design va	alid for use only with MiTek®	connectors. This design is	based on	ly upon parameters	shown, and is for an ind	ividual bu	ilding component	t, not				I R/Ii	Tol
a truss sy	stem. Before use, the buildi	ng designer must verify the	applicabil	ty of design parame	ters and properly incorp	orate this	design into the o	verall					IEK
building d	lesign. Bracing indicated is required for stability and to	to prevent buckling of indivi prevent collapse with possi	dual truss	web and/or chord m al injury and propert	empers only. Additiona v damage. For general	a tempora auidance	ry and permanen regarding the	t pracing				16023 Sw	ingley Ridge Rd.
fa hai sa ti sa	n storogo delivery erection	and brasing of truspes on		ANCI/TD			available from Tr	uco Bloto	Inctituto (u	MAN thingt	ora)	10023 3W	ingicy ridge itu.

is aways 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/TPI Quality Criteria, and DSR-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)



Page: 1

49-11-0 48-8-0

1-3-0

6x6.

0-4-0

15

48-8-0

3-10-4

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14 പ്ര

-9-1

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48-6-15 18-6-15 3-9-3 0-1-1

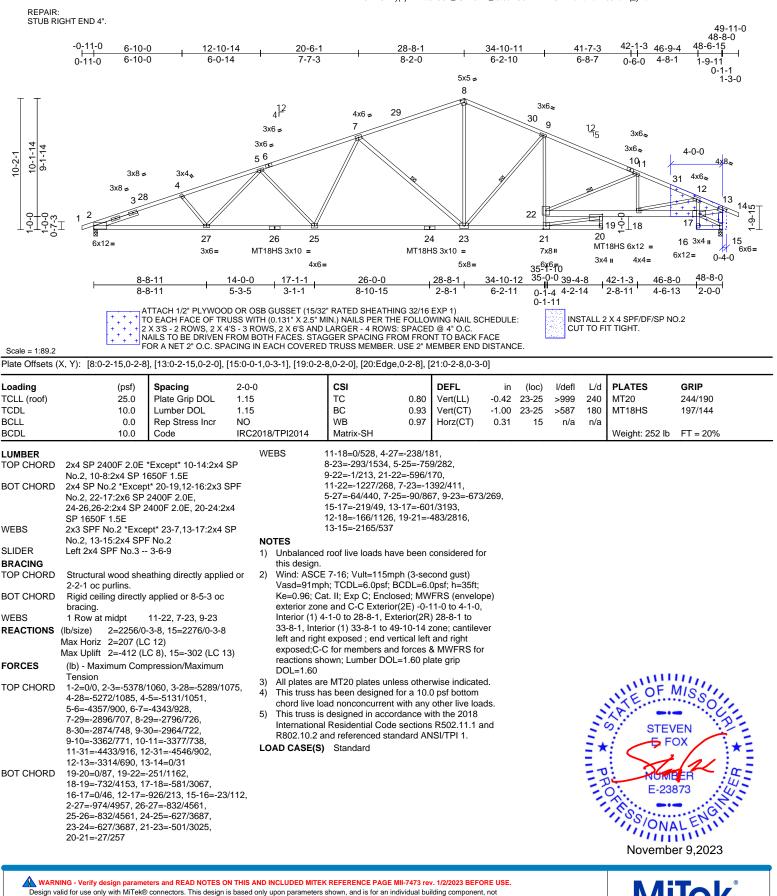
4-0-0

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5 A1-A4 Repair	
P230318-02	A3	Roof Special	5	1	Job Reference (optional)	161909935

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 13:53:31 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-FsV7I_r3t0aKG57mY7XfSALBcZbYd7D99nu?q_yKuh2 Page: 1

16023 Swingley Ridge Rd. Chesterfield MO 63017

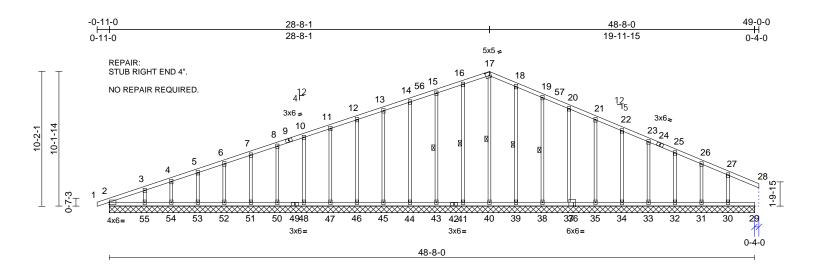
314.434.1200 / MiTek-US.com



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 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, 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)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5 A1-A4 Repair	
P230318-02	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	161909936

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 14:02:37 ID:kkw6VMCTKypljEPYbt576Oz_rGt-GvVXuhSYImNsm?tiXoKiaJzY9g9PZFAXjk9v_KyKuYW Page: 1



Scale = 1:86.9

Plate Offsets (X, Y):	[17:0-3-7,0-3-0], [36:0-2-0,Edge]

Loading		(psf)	Spacing	2-0-0		CSI	0.50	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC BC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15 NO		WB	0.03	Vert(CT)	n/a	-	n/a	999 n/a		
BCLL BCDL		0.0 10.0	Rep Stress Incr Code	IRC2018/TPI2	11/	Matrix-SH	0.21	Horz(CT)	0.00	29	n/a	n/a	Weight: 252 lb	FT - 20%
DODL		10.0	Code	11(02010/1112	/14	Matrix-Ori							Weight. 252 lb	11 = 2078
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP 2 36-42,42- 2x3 SPF Structura 6-0-0 oc p Rigid ceil	400F 2.0E 49:2x4 SP No.2 I wood she purlins. ing directly			ſ	32=2 34=1 37=1 39=1 41=1 44=1 46=1	80 (LC 1), 08 (LC 1), 81 (LC 1), 80 (LC 1), 89 (LC 26) 89 (LC 25) 80 (LC 1), 80 (LC 1),	29=31 (LC 3), 31=81 (LC 3), 33=175 (LC 2) 35=180 (LC 2) 38=180 (LC 2) 40=246 (LC 43=179 (LC) 45=180 (LC 2) 47=180 (LC 2)	6), 6), 6), 22), 25), 5), 5),	WEBS		15-43 13-45 11-47 8-50= 5-53= 18-39 20-37 22-34	,	I=-140/70, 140/70, 140/70, 40/70, 6-52=-139/7 28/66, 3-55=-178/8 3=-139/133, 140/75, 135/73,
WEBS	bracing, 6-0-0 oc l 1 Row at	bracing: 2-8	55. 17-40, 16-41, 15-43 18-39, 19-38	,		51=1 53=1	80 (LC 1),	52=179 (LC 1 54=159 (LC 1),	NOTES		27-30	=-335/217	een considered for
REACTIONS	Max Horiz	30=380/44 32=208/44 32=208/44 32=208/44 37=180/44 43=180/44 44=180/44 44=180/44 48=180/44 51=180/44 53=185/44 53=185/44 53=185/44 52=243/44 2=218 (LC 32=-50 (LC 32=-50 (LC 32=-50 (LC 37=-50 (LC 37=-50 (LC 43=-50 (LC 43=-50 (LC 43=-50 (LC 43=-50 (LC 52=-46 (LC 52=-46 (LC 52=-46 (LC) 52=-46 (LC)	$\begin{array}{l} -8-0, 29=16/48-8-0,\\ 8-8-0, 31=53/48-8-0,\\ 8-8-0, 33=175/48-8-0,\\ 8-8-0, 33=175/48-8-0,\\ 8-8-0, 38=179/48-8-0,\\ 8-8-0, 40=168/48-8-0,\\ 8-8-0, 43=179/48-8-0,\\ 8-8-0, 43=179/48-8-0,\\ 8-8-0, 47=180/48-8-0,\\ 8-8-0, 50=180/48-8-0,\\ 8-8-0, 50=180/48-8-0,\\ 8-8-0, 50=180/48-8-0,\\ 8-8-0, 50=180/48-8-0,\\ 8-8-0, 50=180/48-8-0,\\ 8-8-0, 52=179/48-8-0,\\ 8-8-0, 52=179/48-8-0,\\ 8-8-0, 54=159/48-8$), TOP CH),),),),),),),),),),	DRD	(lb) - Maximum Tension 1-2=0/18, 2-3=, 4-5=-138/186, 5 7-8=-74/232, 8- 10-11=-75/265, 12-13=-98/299, 14-56=-121/336 15-16=-133/372 17-18=-146/393 19-57=-109/292 20-21=-103/256 22-23=-73/184, 24-25=-59/141, 26-27=-66/104, 2-55=-65, 54-5 51-52=00, 50-5 47-48=0/0, 48-4 39-40=0/0, 38-5 35-36=0/0, 30-5	203/171, 3 5-6=-116/19 9=-64/244, 11-12=-86 13-14=-10 5, 15-56=-1 2, 16-17=-1 2, 16-17=-1 3, 18-19=-1 2, 20-57=-1 5, 21-22=-8 23-24=-51 27-28=0/6 5=0/0, 53-5 5=0/0, 43-5 1=0/0, 49-1 17=0/0, 45-1 33=0/0, 37-3 35=0/0, 33-5	-4=-166/177, 38, 6-7=-95/21 9-10=-60/248 (282, 9/316, 14/343, 43/395, 33/336, 17/283, 8/220, 1/149, 1/106, 3 50=0/0, 48-45 46=0/0, 44-45 42=0/0, 40-41 42=0/0, 46-47 38=0/0, 36-37 34=0/0, 32-33	=0/0,)=0/0, j=0/0, j=0/0, '=0/0,		design.		TALE OF	MISSOUR EN BX BX BX BX BX BX BX BX BX BX BX BX BX

November 9,2023

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, 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)



Job	Truss	Truss Type		Ply	Roof - Osage Lot 5 A1-A4 Repair	
P230318-02	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	161909936

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 28-8-1, Corner(3R) 28-8-1 to 33-8-1, Exterior(2N) 33-8-1 to 49-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 3x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. 5)
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads. Solid blocking is required on both sides of the truss at 8)
- joint(s), 2. 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 10) 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

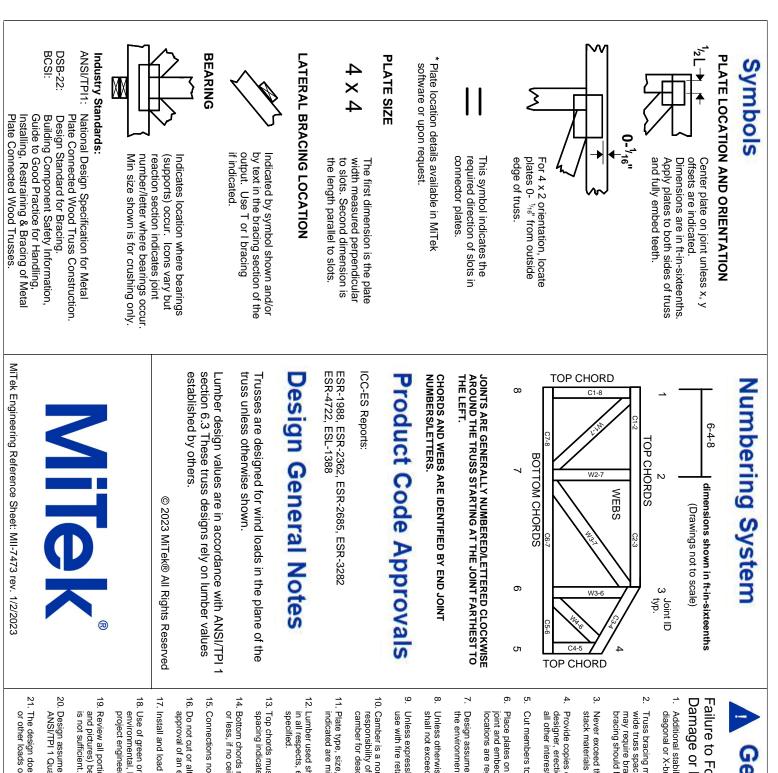
Run: 8.63 F. Feb. 9.2023 Print: 8.630 F. Feb. 9.2023 MiTek Industries. Inc. Thu Nov.09.14:02:37 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-GvVXuhSYImNsm?tiXoKiaJzY9g9PZFAXjk9v_KyKuYW

Page: 2



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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beign value of use only wan win exec connectors, this design is based only upon parameters shown, and is for an individual building domponent, 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/TPI 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)



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.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.