

RE: P230812 - Roof - Osage Lot 77 MiTek, Inc. 1603 Site Information: Toget Clustomer: Clover & Hive Project Name: Twin Sienna - Farmhouse 1603 JUBIock: 77 Subdivision: Osage 14.434.1200 Model: Twin Sienna - Farmhouse Address: 2122 / 2124 Holdsbrook Drive 14.434.1200 Chry: Lees Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Program: MiTek & 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Program: MiTek & 20/20 8.6 No: Seal# Truss Name Date No. Seal# 1 161773666 A1 11/2/23 3 161773666 A1 11/2/23 4 11/2/23 36 161773000 3 161773666 A1 11/2/23 4 11/2/23 36 161773000 Jul 11/2/23 5 11/2/23 36 161773000 Jul 11/2/23 6 11/7/3666 A1 11/2/23 11/2/23 7 11/2/23 36 161773000 Jul 11/2/23 3 161773666 A1 11/2/23 11/2/23 4 161773000 <th></th> <th></th>		
Contention Chesterfield, Mo 63017 Project Customer: Clover & Hive Project Name: Twin Sienna - Farmhouse Chesterfield, Mo 63017 Lot/Block: 77 Subdivision: Osage State: MO Model: Twin Sienna - Farmhouse Address: 2122 / 2124 Holdsbrook Drive State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Design Code: IRC2018 KTP12014 Design Code: IRC2018 KTP12014 Design Code: IRC2018 KTP12014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Floor Load: N/A psf Mean Roof Height (feet): 35 Exposure Category: C No. Seal# Truss Name Date 1 11/7223 35 11/223 39 3 161/79208 A1 11/223 39 4 161/79267 11/223 39 5 161/79203 V1 11/223 6 11/223 39 161/79303 V1 11/223 7 11/223 41 161/79303 V3 11/223 8 11/223 11/223 11/223 9 161/79274 B5 11/223 10 161/79274 B5 </td <td>RE: P230812 - Roof - Osage Lot 77</td> <td></td>	RE: P230812 - Roof - Osage Lot 77	
City: Lees Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Program: MiTek 20/20 8.6 Design Code: IRC2018/TPI2014 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Exposure Category: C Mean Roof Height (feet): 35 61779209 1 161779265 11/2/23 35 3 161779266 11/2/23 35 4 161779266 11/2/23 35 6 161779267 11/2/23 37 6 161779267 11/2/23 38 161779300 7 11/2/23 37 161779209 11/2/23 6 161779270 11/2/23 11/2/23 11/2/23 7 161779270 11/2/23 11/2/23 11/2/23 7 161779277 11/2/23 11/2/23 11/2/23 7 161779277 11/2/23 11/2/23 11/2/23 8 161779277 11/2/23	Project Customer: Clover & Hive Project Name: Twin Sienna Lot/Block: 77 Subdivision: Osage Model: Twin Sienna - Farmhouse	- Farmhouse Chesterfield, MO 63017
Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Mean Roof Height (feet): 35 Exposure Category: C No. Seal# Truss Name Date 1 161773266 A1 11/223 3 161773266 A2 11/223 4 11/223 36 1 161773266 A3 11/223 3 161773268 A4 11/223 4 161773268 A4 11/223 5 161773268 A4 11/223 6 11778270 B1 11/223 7 161778270 B1 11/223 8 161779305 V3 11/223 9 161779370 B4 11/223 9 161779370 B4 11/223 10 161779370 B4 11/223 11 11/223 11/223 10 161779370 B4 11/223 10 161779370 B4 11/223 11 11/	City: Lees Summit State: MO	
Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Roof Load: 45.0 psf Floor Load: N/A psf Mean Roof Height (feet): 35 Exposure Category: C No. Seal# Truss Name Date No. Seal# 1 161779266 A1 11/223 3 161779266 A2 11/223 4 161779266 A3 11/223 5 161779200 A5 11/223 6 16779267 A3 11/223 1 161779268 A4 11/223 3 161779270 B1 11/223 4 161779300 LAY1 11/223 7 161779272 B3 11/223 8 161779307 V5 11/223 9 61779270 B1 11/223 10 161779272 B3 11/223 11 161779278 B3 11/223 12 161779270 B1 11/223 13 1617793270 B1 11/223 14 161779276 B7 11/223 15 16779270 B1 11/223 16 16779270 B1 11/223 16		ual Truss Design
No. Seal# Truss Name Date 1 161779266 A1 11/2/23 35 161779299 J4 11/2/23 3 161779267 A3 11/2/23 37 161779207 11/2/23 3 161779268 A4 11/2/23 37 161779300 145 11/2/23 4 161779268 A4 11/2/23 37 161779300 147 11/2/23 5 161779270 B1 11/2/23 30 161779300 147 11/2/23 6 161779270 B1 11/2/23 40 161779300 V2 11/2/23 9 161779278 B3 11/2/23 42 161779306 V4 11/2/23 10 161779276 B7 11/2/23 14 161779307 5 11/2/23 11 161779276 B7 11/2/23 14 161779278 11/2/23 12 161779276 B7 11/2/23 14 161779278 11/2/23 12 161779226 D3 11/2/23 14 <	Wind Code: ASCE 7-16Wind Speed: 115 mphDesign M	lethod: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16
1 161779266 A1 11/223 35 161779200 J 11/223 2 161779266 A2 11/223 37 161779300 J 11/223 3 161779267 A3 11/223 37 161779301 LAY1 11/223 4 161779268 A4 11/223 38 161779301 LAY1 11/223 5 161779269 B4 11/223 38 161779304 L1 11/223 6 161779276 B1 11/223 43 161779304 L1 11/223 7 161779276 B5 11/223 44 161779306 V4 11/223 10 161779276 B7 11/223 14 161779306 V6 11/2/23 11 161779277 B8 11/2/23 14 161779306 V6 11/2/23 12 161779276 B10 11/2/23 11/2/23 11 11/2/23 13 161779286 D2 11/2/23 11 11/2/23 11 13 1617	Mean Roof Height (feet): 35 Exposure	e Category: C
MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11/2/23 11/2/23 11/2/23 11/2/23 11/2/23 11/2/23 11/2/23 11/2/23 11/2/23
My license renewal date for the state of Missouri is December 31, 2024.	MiTek USA, Inc. under my direct supervision based on the parameter	Street.

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



Nathan Fox

								RELE	ASE FOR CONS	TRUCTION
Job	Truss	3	Truss Type	C	Qty Ply	Roof - Os	age Lot 77		DTED FOR PLA VELOPMENT SE 1617792	
P230812	A1		Half Hip Girder	2	2 1	Job Refe	ence (optional		1617792 E' <mark>S SUMMIT, M</mark> I	
Premier Building	Supply (Springhill, KS),	Spring Hills, KS - 66083,		In: 8.63 S Aug 30 202		Aug 30 2023 MiTe	k Industries, Inc.	Ved Nov 01 14)		023
			ID:	BCy5ZbGPCcp1yed6	w91r/BzxFiH-R	C?PsB70Hq3NSg	PqnL8w3ul1XbG	WrCDoi7J4zJC	<u>/r 0 07 –</u>	020
		-0-10-8	5-0-0		8-10-	8	12	2-11-8		
		0-10-8	5-0-0	ļ	3-10-	8	2	I-1-0	I	
				NAILED	NAILE	D NAIL		IAILED	Special	
									opoola	
			12 4 [4x4 =		Зх	4 =		3x4 II	
	1-7-0		4 L 	8 3	9	10 4]	11 12	5	
	0 3		6						F	
2-3-3	2-0-9	2								2-0-9
	-9-0	- 1			\leq		1		6	
				7	13	14	4	15	Ň	
		_	×4 =	3x4 =					5x5 =	
				Special	NAILE			IAILED		
		F	<u>4-10-12</u> 4-10-12			<u>12-1</u> 8-0-				
Scale = 1:32.8 Plate Offsets (X, Y): [5:Edge,0-2-8	1								
Loading	(psf)	Spacing	2-0-0 CSI		DEFL	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 TC 1.15 BC	0.57 0.77	Vert(LL)	-0.20 6-7 -0.41 6-7	>771 240	MT20	197/144	
BCLL	0.0	Rep Stress Incr	NO WB	0.83	. ,	0.03 6				
BCDL	10.0	Code	IRC2018/TPI2014 Mate 6) Provide mechanica		thora) of truca	to		Weight: 50 I	b FT = 20%	
LUMBER TOP CHORD		_		ble of withstanding						
BOT CHORD WEBS	2x4 SP 1650F 1.5E 2x3 SPF No.2	-	 This truss is design 			and				
BRACING TOP CHORD		eathing directly applied	or R802.10.2 and refe	erenced standard A	NSI/TPI 1.					
	3-4-7 oc purlins, e 2-0-0 oc purlins (3-	xcept end verticals, an 10-1 max.): 3-5.	or the orientation of	of the purlin along the		5120				
BOT CHORD	Rigid ceiling directl bracing.	y applied or 8-4-7 oc	9) "NAILED" indicates	(148" x 3") toe-	nails				
REACTIONS	(size) 2=0-3-8, Max Horiz 2=82 (L0		per NDS guideline 10) Hanger(s) or other	connection device						
	Max Uplift 2=-284 (Max Grav 2=989 (I	LC 8), 6=-266 (LC 8) _C 1), 6=964 (LC 1)	down and 32 lb up	to support concent at 12-10-4 on top	chord, and 28					
FORCES	(mpression/Maximum	design/selection of	at 5-0-0 on botton f such connection c)				
TOP CHORD		9/667, 3-4=-1948/675,	responsibility of otl 11) In the LOAD CASE			face				
BOT CHORD WEBS	2-7=-670/1965, 6-7		LOAD CASE(S) Star	ndard						
NOTES			Plate Increase=1		er Increase=1	.15,				
, this desigr	۱.	e been considered for	Uniform Loads (lk Vert: 1-3=-70,	o/ft) 3-5=-70, 2-6=-20				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ann	
Vasd=91m	CE 7-16; Vult=115mp hph; TCDL=6.0psf; B	CDL=6.0psf; h=35ft;		ads (lb) , 5=-8 (F), 7=-286	(F), 4=-90 (F),			FEOI	E MISSOL	d.
	Cat. II; Exp C; Enclos	ed; MWFRS (envelope (2E) -0-10-8 to 4-1-8,) 9=-90 (F), 11= 15=-28 (F)	-90 (F), 13=-28 (F)	, 14=-28 (F),		E	A NAT	HANIEL	N.S.
		rior(2R) 5-0-0 to 12-0-1 zone; cantilever left and					ä		FOX	F.B
• •	sed ; end vertical left and forces & MWFRS	exposed;C-C for S for reactions shown;					g'	1 H	- Dr.	128
Lumber D	OL=1.60 plate grip D						A.	A WANK	MHR O	TE A
4) This truss	has been designed f		S.				Ŷ	AT A	22042259	S B
	is are assumed to be	SP 1650F 1.5E crushi						NOISSION	IAL ENG	Ą
capacity 0								and the	DUTTE	

November 2,2023



								RELEASE FOR CONSTRUCTION
Job	Truss		Truss Type	Qty	Ply	Roof - Osa	ge Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779266
P230812	A2		Half Hip	2	1	Job Refere	nce (optional	I61779266 LEE'S SUMMIT, MISSOURI
Premier Building Supp	oly (Springhill, KS), Sp	pring Hills, KS - 66083,		n: 8.63 S Aug 30 2023 I BTUW8PT4CqydUFQN0				
			ID.	BIUWOF14Cqyd0FQN	2EGqJIII2XFIU-R	(IC?FSB/0H43N3)	grqnLow3u17A	
		-0-10-8	7-0-	0			12-11-8	
		0-10-8	7-0-0	0	I		5-11-8	
					6x6 =			
0			12		3	8		3х4 и 4
5-10-0	-1-9		12 4	0- <u>1-</u> 0				
				7		\square		
2-11-3 2-8-7	2-8-7							2-8-7
5 5	Ъ	2						Å
	0-9-0	1						5
	_ 0				6			
		4x4	=		1.5x4 ı	II		3x4 =
		-	<u> </u>				<u>12-11-8</u> 6-0-12	
Scale = 1:31.7 Plate Offsets (X, Y):	· [1:Edge 0-2-8]							
Loading		Spacing	2-0-0 CSI		DEFL	in (loo)	l/defl L/d	PLATES GRIP
TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	1.15 TC	0.87	Vert(LL)	in (loc) 0.07 2-6	>999 240	MT20 197/144
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.15 BC YES WB	0.55 0.88	Vert(CT) Horz(CT)	-0.14 2-6 0.02 5	>999 180 n/a n/a	
BCDL	10.0	Code	IRC2018/TPI2014 Matr					Weight: 49 lb FT = 20%
	SP No.2			ble of withstanding 1)		
BOT CHORD 2x4 WEBS 2x3	I SP No.2 3 SPF No.2			ned in accordance wi				
BRACING TOP CHORD Stre	uctural wood shea	athing directly applied	or R802.10.2 and refe	lential Code sections erenced standard AN	SI/TPI 1.			
2-2		ept end verticals, and	d 8) Graphical purlin rep or the orientation o	presentation does no f the purlin along the		ze		
BOT CHORD Rig		applied or 8-6-15 oc	bottom chord. LOAD CASE(S) Stan	ndard				
REACTIONS (size	e) 2=0-3-8, 5 Horiz 2=110 (LC							
Max		C 8), 5=-133 (LC 8)						
FORCES (lb)	- Maximum Comp	pression/Maximum						
TOP CHORD 1-2	nsion =0/6, 2-3=-970/38	39, 3-4=-43/24,						
BOT CHORD 2-6	i=-201/163 i=-433/838, 5-6=-4							
WEBS 3-6 NOTES	i=0/304, 3-5=-862/	/451						
 Unbalanced roc this design. 	of live loads have l	been considered for						
2) Wind: ASCE 7-	16; Vult=115mph FCDL=6.0psf: BCE	(3-second gust) DL=6.0psf; h=35ft;						THE OF MISSOL
Ke=1.00; Cat. II	I; Exp C; Enclosed	d; MWFRS (envelope E) -0-10-8 to 4-1-8,)				A	THE OF MISSOL
Interior (1) 4-1-8	8 to 7-0-0, Exterio	r(2E) 7-0-0 to 12-10- osed ; end vertical le					A	S NATHANIEL FOX
exposed;C-C fo	or members and fo	orces & MWFRS for					av	H. H.
DOL=1.60	n; Lumber DOL=1						X.	AND BER IN 2
This truss has b	been designed for						8	PE-2022042259
5) All bearings are	assumed to be S	h any other live loads P No.2 crushing).					ESSIONAL ENGLIS
capacity of 565	psi.							WAL ST

November 2,2023





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	0.32 0.48 0.37	- ()	in -0.05 -0.11 0.01	(loc) 6-7 6-7 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 52 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	TOP CHORD2x4 SP No.2bearing plate capable of withstanding 139 lb uplift at joint 6 and 158 lb uplift at joint 2.BOT CHORD2x4 SP No.27)WEBS2x3 SPF No.27)BRACINGStructural wood sheathing directly applied or 5-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.7)BOT CHORDRigid ceiling directly applied or 7-8-13 oc8												
BOT CHORD	SOT CHORD Rigid ceiling directly applied or 7-8-13 oc bottom chord.												
	(lb) - Maximum Com Tension												
TOP CHORD	1-2=0/6, 2-3=-1102/4 4-5=-17/6, 5-6=-132/	, ,											
BOT CHORD WEBS NOTES	2-7=-574/977, 6-7=- 3-7=-278/274, 4-7=-		80										
1) Unbalance this design	 Unbalanced roof live loads have been considered for this design. 												
Vasd=91m Ke=1.00; C exterior zo	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 414 02 0.0 Exterior(2E) -0.0 8 to 4-1-8,												

- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom

Interior (1) 4-1-8 to 9-0-0, Exterior(2E) 9-0-0 to 12-10-4

zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for

chord live load nonconcurrent with any other live loads.5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



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November 2,2023

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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	0.47	Vert(LL)	-0.09	1-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.55	Vert(CT)	-0.18	1-6	>832	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she			bearing plate joint 1 and 1 This truss is International R802.10.2 a	hanical connection e capable of withsta 49 lb uplift at joint designed in accord Residential Code nd referenced stan rifin representation	anding 1 5. dance w sections ndard AN	01 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1.	t and					
BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4. CHORD Rigid ceiling directly applied or 7-8-13 oc bracing. CHORD State of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard												
REACTIONS	(size) 1= Mecha	anical, 5=0-3-8											
	Max Horiz 1=165 (LC	C 12)											
	Max Uplift 1=-101 (L	.C 8), 5=-149 (LC 8)											
	Max Grav 1=573 (LC	C 1), 5=573 (LC 1)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=-1075/426, 2-3=	-769/282, 3-4=-4/2,											
DOTOLODD	4-5=-55/36	154/050											
BOT CHORD	1-6=-574/969, 5-6=-		254										
WEBS	2-6=-423/370, 3-6=-	229/616, 3-5=-564/	354										
NOTES													
	ed roof live loads have	been considered fo	r										
this desigr 2) Wind: ASC	n. CE 7-16; Vult=115mph	(2 cocond quet)											
	nph; TCDL=6.0psf; BC											and	ADD
	Cat. II; Exp C; Enclose		ce)									8 OF 1	ALSON
	one and C-C Exterior(2											ATE OF I	10.0°
	E 0 40 1- 40 44 4 E										6		N () N

grip DOL=1.603) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

Interior (1) 5-0-12 to 10-11-4, Exterior(2E) 10-11-4 to

12-9-8 zone; cantilever left and right exposed ; end

vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

 Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.

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





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November 2,2023

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
000	11033		Gily	i iy	1001 - Osage Lot 11	DEVELOPMENT SERVICES 161779269
P230812	A5	Half Hip	2	1	Job Reference (optional	LEFTE CUMMIT, MICCOUDI
					-	

7-0-8 7-0-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 43340 6/2023 ID:vfcjoeo0r7LoEP_aVPF9wTzxFhb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV/rCDoi7J4zJeff

12-10-12

5-10-4





			7.	12-10-12								
Scale = 1:42.9			7-	-0-8	I		5-10-4					
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	0.74	Vert(LL)	-0.07	1-5	>999	240	MT20	244/190
FCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.16	1-5	>959	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 50 lb	FT = 20%

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS	(size)	1= Mechanical, 4=0-3-8
	Max Horiz	1=196 (LC 8)
	Max Uplift	1=-91 (LC 8), 4=-159 (LC 8)
	Max Grav	1=573 (LC 1), 4=573 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-980/	252, 2-3=-90/25, 3-4=-146/157
BOT CHORD	1-5=-411/	869. 4-5=-411/869

2-5=0/308, 2-4=-942/447

WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-8 to 5-1-8, Interior (1) 5-1-8 to 12-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 4 SP No.2 crushing 3) capacity of 565 psi.
- Refer to girder(s) for truss to truss connections. 4) Provide mechanical connection (by others) of truss to 5)
- bearing plate capable of withstanding 91 lb uplift at joint 1 and 159 lb uplift at joint 4. This truss is designed in accordance with the 2018 6)
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 2,2023







Plate Offsets (X, Y): [5:0-5-0,0-2-0], [10:0-1-12,0-3-4]

		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	0.81	Vert(LL)	-0.34	9-11	>914	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.61	9-11	>508	180			
BCLL	0.0	Rep Stress Incr	NO		WB	0.64	Horz(CT)	0.11	7	n/a	n/a			
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 218 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	1.5E 2x4 SP 1650F 1.5E 2x3 SPF No.2 *Exce Structural wood she 5-5-5 oc purlins, ex 2-0-0 oc purlins (4-9 Rigid ceiling directly bracing. 1 Row at midpt	applied or 10-0-0 oc 5-7	3) d or id	 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-0-0, Exterior(2R) 5-0-0 to 12-0-14, Interior (1) 12-0-14 to 25-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Used H and C (b) Landard (c) Lumber Increase Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 3-5=-70, 5-6=-70, 2-7=-20 Concentrated Loads (lb) Vert: 3-90 (F), 12=-286 (F), 14=-90 (F), 14 										
REACTIONS	Max Horiz 2=216 (LC Max Uplift 2=-533 (L Max Grav 2=1968 (I	C 11) .C 8), 7=-385 (LC 12) .C 1), 7=1548 (LC 1)	5)	 Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 										
FORCES	(lb) - Maximum Corr Tension	pression/Maximum	6)	 All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi. 										
TOP CHORD	1-2=0/6, 2-3=-4891/ 4-5=-6712/1763, 5-6	1363, 3-4=-6208/164 6=-175/91, 6-7=-256/ ⁻		 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at 										
BOT CHORD	9-11=-1996/7077, 8- 7-8=-1297/5251	-9=-1304/5248, 233, 5-7=-5346/1361 1=-362/1881,		This truss is International R802.10.2 a Graphical pu	33 lb uplift at joint designed in accord Residential Code nd referenced star urlin representation ation of the purlin a	dance w sections ndard AN ndoes ne	s R502.11.1 a NSI/TPI 1. ot depict the s					TATE OF I	MISSO	
NOTES	,			bottom chore	d.	Ū	·				B	NATHA	NIFI	
(0.131"x3 Top chord oc, 2x3 - Bottom ch 0-9-0 oc.	s to be connected toge ") nails as follows: ds connected as follows 1 row at 0-9-0 oc. hords connected as foll hected as follows: 2x3 - 0-9-0 oc.	s: 2x4 - 1 row at 0-9-0 ows: 2x4 - 1 row at) 11 12	Truss, Single the left end t chord.	n Strong-Tie LUS2 e Ply Girder) or eq o connect truss(es bles where hanger dicates Girder: 3-1 delines.	uivalent a) to fron is in cor	at 13-0-0 from t face of botto ntact with lum	m om Iber.				PE-2022	X DER 042259	

November 2,2023

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 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 to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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)

								RELEASE FOR	
Job	Truss		Truss Type		Qty	Ply	Roof - Osage Lot 77		DR PLAN REVIEW ENT SERVICES 61779271
P230812	B2		Roof Special		2	1	Job Reference (optional		MIT, MISSOURI
Premier Building Supply	(Springhill, KS), Spring Hill	ls, KS - 66083,		-		-	30 2023 MiTek Industries, Inc. IsB70Hq3NSgPqnL8w3uITXb0		5/2023
	-0-10-8								
	0-10-8	7-0-0		<u>13-4-12</u> 6-4-12			20-0-0 6-7-4	<u>25-11-8</u> 5-11-8	
T			6x6 =		1.5x4	11	8x10: 1.		3x4 II 6
+		12 4 12	• 3 •		4 1	3			4-9-13
- 0	4x4 =		11		10 9		8		4x6 =
	4x4 =		1.5x4 u		3x8=		1.5x4 I	I	4X0 =



Plate Offsets (X, Y): [5:0-4-12,Edge]

TCLL (roof)25.0Plate Grip DOL1.15TC0.85Vert(LL)-0.248-10>999240MT20TCDL10.0Lumber DOL1.15BC0.90Vert(CT)-0.438-10>713180BCLL0.0Rep Stress IncrYESWB0.99Matrix-SHorz(CT)0.107n/an/aBCDL10.0CodeIRC2018/TPI2014Matrix-SHorz(CT)0.107n/am/aLUMBERTOP CHORD2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2All bearings are assumed to be SP No.2 crushing capacity of 565 psi.Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 7 and 283	
TCDL10.0Lumber DOL1.15BC0.90Vert(CT)-0.438-10>713180BCL0.00.0CodeIRC2018/TPI2014WB0.99Wert(CT)0.107n/an/aBCDL10.0CodeIRC2018/TPI2014Matrix-SWeight: 104 lbILUMBERTOP CHORD2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2All bearings are assumed to be SP No.2 crushing capacity of 565 psi.9Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 7 and 283 lb uplift at joint 2.9Provide mechanical Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.BOT CHORDRigid ceiling directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 3-5.6This 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.BOT CHORDRigid ceiling directly applied or 6-10-12 oc bracing.75-7WEBS1 Row at midpt5-75-7	GRIP
BCLL 0.0 Rep Stress Incr YES WB 0.99 Horz(CT) 0.10 7 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Horz(CT) 0.10 7 n/a n/a LUMBER TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2 + All bearings are assumed to be SP No.2 crushing capacity of 565 psi. - <td>197/144</td>	197/144
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 104 lb LUMBER TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 7 and 283 lb uplift at joint 7. 6) This truss is designed in accordance with the 2018 lnternational Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. WEBS 1 Row at midpt 5-7 5.7	
LUMBER TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. BOT CHORD 2x4 SP No.2 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 7 and 283 lb uplift at joint 2. BRACING 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. TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, (3-3-4 max.): 3-5. BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing. WEBS 1 Row at midpt 5-7 LOAD CASE(S) Standard	
TOP CHORD2x4 SP 1650F 1.5E *Except* 5-6:2x4 SP No.2capacity of 565 psi.BOT CHORD2x4 SP No.2Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 7BRACING TOP CHORDStructural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 3-5.6)BOT CHORDRigid ceiling directly applied or 6-10-12 oc bracing.7)WEBS1 Row at midpt5-7	FT = 20%
bracing. bottom chord. WEBS 1 Row at midpt 5-7 LOAD CASE(S) Standard	
REACTIONS (size) 2=0-3-8, 7=0-3-8 Max Horiz 2=201 (LC 8) Max Uplift 2=-283 (LC 8), 7=-269 (LC 12) Max Grav 2=1230 (LC 1), 7=1155 (LC 1)	
FORCES (Ib) - Maximum Compression/Maximum Tension	
TOP CHORD 1-2=0/6, 2-3=-2680/618, 3-4=-3195/757, 4-5=-3193/755, 5-6=-94/45, 6-7=-185/134	
BOT CHORD 2-11=-706/2446, 10-11=-709/2439, 8-10=-505/2249, 7-8=-509/2243	
WEBS 3-11=0/296, 3-10=-141/808, 4-10=-520/254, 5-10=-361/1005, 5-8=0/273, 5-7=-2407/542	app
5-10=-361/1005, 5-8=0/273, 5-7=-2407/542 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II: Exp C: Enclosed; MWFRS (envelope)	ISSOLA

- Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 14-0-14, Interior (1) 14-0-14 to 25-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 3)
 - chord live load nonconcurrent with any other live loads.



November 2,2023



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779272
P230812	В3	Roof Special	2	1	Job Reference (optional	I61779272 LEE'S SUMMIT, MISSOURI
Premier Building Supply (Sp	oringhill, KS), Spring Hills, KS - 66083,				30 2023 MiTek Industries, Inc. \ '0Hq3NSgPqnL8w3uITXbGKV	
	-0-10-8 5-3-4		5-4-12		22-0-0	25-11-8
	0-10-8 5-3-4	3-8-12 6	-4-12	•	6-7-4	3-11-8
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	14 13 1 2 4x4=	4 ¹² 6x6= 1.5x4 3 1.5x4 1	1	1.5x4 5 1! • • • • • • • • • • • • • • • • • • •		1.5x4 II 7 7 6 9 1.5x4 II 8 8
			-4-12 -6-0		<u>21-10-12</u> 6-6-0	<u>25-11-8</u> 4-0-12

Plate Offsets (X, Y): [6:0-4-12,0-2-0]

	(X, 1). [0.0-4-12,0-2-0	, 			_							
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 IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.88 0.92 0.51	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.19 -0.42 0.08	(loc) 2-12 2-12 8	l/defl >999 >740 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 109 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-10-13 oc purlins, 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing. 1 Row at midpt	r applied or 2-2-0 oc 6-8 8=0-3-8 C 8) .C 8), 8=-269 (LC 12	capacity 5) Provide bearing joint 8 ar 6) This trus s, and 6) This trus R802.10 7) Graphica or the or bottom c LOAD CASE	ngs are assumed to of 565 psi. mechanical connect blate capable of with d 283 lb uplift at join s is designed in acc onal Residential Coo .2 and referenced si al purlin representati entation of the purlin hord. :(S) Standard	ion (by oth istanding 2 ordance w de sections andard AN on does n	ers) of truss to 269 lb uplift at ith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the s	nd					
FORCES	(lb) - Maximum Con Tension	npression/Maximum	,									
TOP CHORD	1-2=0/6, 2-3=-2632/ 4-5=-2438/598, 5-6= 7-8=-110/84	=-2438/598, 6-7=-60/										
BOT CHORD	2-12=-790/2418, 10 9-10=-290/1261, 8-9											
WEBS		2=-3/354, 4-10=-56/2)=-406/1300, 6-9=0/2									TATE OF M	AISS
Vasd=91r Ke=1.00; exterior zc Interior (1 Interior (1 right expo members Lumber D 2) Provide a 3) This truss	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-8 to 9-0-0, Exterior) 16-0-14 to 25-10-4 zo used ; end vertical left e and forces & MWFRS VOL=1.60 plate grip DC dequate drainage to pr has been designed fo load nonconcurrent w	SDL=6.0psf; h=35ft; cd; MWFRS (envelop 2E) -0-10-8 to 4-1-8, or(2R) 9-0-0 to 16-0- one; cantilever left ar exposed;C-C for for reactions shown DL=1.60 revent water ponding r a 10.0 psf bottom	-14, nd ; g.						•	K	FOI	HIEL BER 042259





Job Truss Truss Type Qty Ply Roof - Osage Lot 77 AS NOTED FOR PLAN REVIEW P230812 B4 Roof Special 2 1 Job Reference (optional) DEVELOPMENT SERVICES IO1779273 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, ID:tl3b14lEKQIZx3k9ZfyTGvzxFeN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW Ved Nov ¶ Ply and Plan Review							RELEASE FOR CONSTRUCTION
P230812 B4 Roof Special 2 1 Job Reference (optional) LEE'S SUMMIT, MISSOURI	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, ID:tl3b14lEKQIZx3k9ZfyTGvzxFeN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW_CDoi7J4zUC++	P230812	B4	Roof Special	2	1	Job Reference (optional	
ID:ti3014IEKQI2X3K92ty1GV2XFen-RtC (PSB/UHq3N5gPqnL8W3UI1XbGKW CD0I/142UCH-	Premier Building Supply (Spr	inghill, KS), Spring Hills, K	S - 66083,	Run: 8.63 S Aug 30 2023 Print: 8	8.630 S Aug 3	30 2023 MiTek Industries, Inc.	Ved Nov 1 1433/27)6/299:23
				ID:1130141EKQIZX3K9ZIY1GVZXF6	IN-RIC (PSB/	rungsinsgegnLawsun AbGKW	CD0173423CH



Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.74	DEFL Vert(LL)	in -0.16	(loc) 8-9	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.35	8-9	>889	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.55	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%
UMBER OP CHORD OT CHORD /EBS RACING OP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she	athing directly applied	5) 6)	bearing plate joint 8 and 28 This truss is International	hanical connect capable of with 33 lb uplift at joud designed in act Residential Cond referenced	thstanding 2 bint 2. cordance wi ode sections	69 lb uplift a th the 2018 R502.11.1 a	t					
OF CHORD	2-3-3 oc purlins, ex 2-0-0 oc purlins (3-4 Rigid ceiling directly	cept end verticals, a -9 max.): 4-6.	nd ⁷⁾ oc	Graphical pu or the orienta bottom choro DAD CASE(S)	ation of the pur I.			size					
EACTIONS	bracing. (size) 2=0-3-8, 8	3=0-3-8		//D 0//02(0)	otandara								
	Max Horiz 2=201 (LC												
	Max Uplift 2=-283 (L	C 8), 8=-269 (LC 12	<u>?</u>)										
	Max Grav 2=1230 (L	_C 1), 8=1155 (LC 1)										
ORCES	(lb) - Maximum Com	pression/Maximum											
OP CHORD	Tension 1-2=0/6, 2-3=-2688/ 4-5=-1853/457, 5-6= 7-8=-13/24	, , , , , , , , , , , , , , , , , , , ,											
BOT CHORD	2-12=-731/2454, 11- 9-11=-539/1935, 8-9	,											
VEBS	3-12=0/231, 3-11=-5 4-9=-97/107, 5-9=-5 6-8=-1189/347	63/222, 4-11=-37/3											
	E 7-16; Vult=115mph											G OF M	AISSO

- 1) Wind: ASCE 7-16; Vull=115hiph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-0-0, Exterior(2R) 11-0-0 to 18-0-14, Interior (1) 18-0-14 to 25-10-4 zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



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							RELEASE FOR	CONSTRUCTION
Job	Truss	Truss	Туре	Qty	Ply	Roof - Osage Lot 77		R PLAN REVIEW NT SERVICES 1779274
P230812	B5	Half H	lip	2	1	Job Reference (optional		1779274 IT, MISSOURI
Premier Building Supply	y (Springhill, KS), Spring H	lills, KS - 66083,				0 2023 MiTek Industries, Inc. 70Hq3NSgPqnL8w3uITXbGKV		/2023
	-0-10-8	6-8-10	13-0-0			0-1-2	25-11-8	
	0-10-8	6-8-10	6-3-6	I	-	7-1-2	5-10-6	ļ
				6x6 =		3x4=		1.5x4 u
4-11-3 4-8-7 4-8-7 4-8-7 0-1-9		1	12 4 1.5x4 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5	4				4-8-7
				[¢				7
•			10	g)	8		<u> </u>



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	0.79 0.95 0.77	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.50 0.07	(loc) 7-8 7-8 7	l/defl >999 >619 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 105 lb	GRIP 197/144 FT = 20%	
	2-2-0 oc purlins, ex 2-0-0 oc purlins (3-2 Rigid ceiling directly bracing.	r applied or 2-2-0 oc 5-7 7=0-3-8 C 8) .C 8), 7=-268 (LC 8) LC 1), 7=1155 (LC 1)	nd 8) L(capacity of 5 Provide mec bearing plate joint 7 and 20 This truss is International R802.10.2 an Graphical pu	hanical connection a capable of withs 84 Ib uplift at joinin designed in accoor Residential Code and referenced sta rifn representation ation of the purlin d.	on (by oth standing 2 t 2. ordance w e sections andard AN on does no	ers) of truss 68 lb uplift a 18502.11.1 a ISI/TPI 1. 10 depict the	t and						
TOP CHORD		/658, 3-4=-2325/577, =-23/0, 6-7=-153/100 10=-484/1684												
WEBS	7-8=-362/1220 3-10=-407/271, 4-10		60											
NOTES 1) Unbalance	ed roof live loads have	been considered for										STIT	TOP	

 Unbalanced roof live loads have been considered for this design.

4x4 =

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 13-0-0, Exterior(2R) 13-0-0 to 20-1-2, Interior (1) 20-1-2 to 25-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



3x6 =

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 **ANSITPTI 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) November 2,2023



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779275
P230812	B6	Half Hip	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Premier Building Supply (Spr	inghill, KS), Spring Hills, KS - 66083				0 2023 MiTek Industries, Inc. \ '0Hq3NSgPqnL8w3uITXbGKV	
	-0-10-8 7 0-10-8 7	3-9 15- 3-9 7-3			20-7-11 5-7-11	<u>25-11-8</u> 5-3-13
				6x6=	3:	x4= 1.5x4 u
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 1 2 4x4=	4 ¹² 4x4 = 1.5x4 & 313 4 2 4 1.5x4 & 1.5x4 & 11 3x4 =			9 3x4=	14 7 14 7 14 7 14 7 14 7 14 7 14 7 14 14 14 14 14 14 14 14 14 14
		10-0-1 10-0-1	<u>17-9</u> - 7-9-			25-11-8 8-1-10

Plate Offsets (X, Y): [4:0-2-0,Edge]

members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

Plate Olisets	(A, f). [4.0-2-0,Euge]											
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/TPI:	2014 CSI TC BC WB Matrix-	0.91 0.73 0.68 S	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.59 0.07	(loc) 2-11 2-11 8	l/defl >999 >525 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 107 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	1.5E 2x4 SP No.2 *Excep 1.5E 2x3 SPF No.2 Structural wood she except end verticals (4-10-0 max.): 5-7. Rigid ceiling directly bracing. 1 Row at midpt	et* 10-2:2x4 SP 1650 eathing directly applie , and 2-0-0 oc purlin applied or 8-1-8 oc 6-8 8=0-3-8 C 8), 8=-273 (LC 8)	 cho 5) Bez 5) Bez cap cap 6) Pro bez join s 7) This Inte R80 8) Grz or t bott 	truss has been d id live load nonco rings are assume shing capacity of 5 acity of 565 psi. vide mechanical c ring plate capable and 279 lb upli truss is designed 2.10.2 and refere phical purlin repre- te orientation of th om chord. CASE(S) Standa	ncurrent with any d to be: Joint 2 S (65 psi, Joint 8 SF onnection (by oth of withstanding 2 ft at joint 2. l in accordance w tial Code sections need standard At sentation does n lee purlin along the	other live loa P 1650F 1.5E No.2 crushi ers) of truss 73 lb uplift a ith the 2018 \$ R502.11.1 a JSI/TPI 1. ot depict the	ads. E ing to at					
FORCES	(lb) - Maximum Com Tension		, ,									
TOP CHORD												
BOT CHORD												
WEBS	3-11=-523/315, 5-11 5-9=-380/192, 6-9=-	,	114								TATE OF I	MISS
NOTES										1	950	
1) Unbalanc this desig	ed roof live loads have	been considered for	r							A		
2) Wind: AS Vasd=91r Ke=1.00; exterior zr Interior 1 22-0-14, I left and rig members Lumber D	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-8 to 15-0-0, Exter Interior (1) 22-0-14 to 2 ght exposed ; end verti and forces & MWFRS DOL=1.60 plate grip DC	DL=6.0psf; h=35ft; bd; MWFRS (envelop E) -0-10-8 to 4-1-8, rior(2R) 15-0-0 to 5-10-4 zone; cantile cal left exposed;C-C for reactions shown DL=1.60	ver for							Physics	PE-2022	042259

SSIONAL EN

November 2,2023

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BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S	
	2-11-1 oc purlins, ex 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing. 1 Row at midpt	applied or 2-2-0 oc 7-9 9=0-5-8 2 8) C 8), 9=-280 (LC 8)	ind 7) 8) LO	chord live loa All bearings a capacity of 56 Provide mech bearing plate joint 9 and 27 This truss is of International R802.10.2 ar Graphical put	nanical connection (by oth capable of withstanding 2 3 lb uplift at joint 2. designed in accordance w Residential Code sections d referenced standard AP flin representation does no tion of the purlin along the	other live loads. .2 crushing hers) of truss to 280 lb uplift at with the 2018 s R502.11.1 and NSI/TPI 1. ot depict the size
FORCES	(lb) - Maximum Com Tension	pression/Maximum				
TOP CHORD	1-2=0/6, 2-3=-2645/6	607, 3-5=-2228/477, -1197/340, 7-8=-14/0),			
BOT CHORD	2-12=-776/2436, 10- 9-10=-247/749	12=-554/1761,				
WEBS	3-12=-455/269, 5-12 5-10=-777/298, 6-10 7-9=-1202/404	=-43/495, =0/199, 7-10=-149/72	24,			
NOTES						

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 17-0-0, Exterior(2R) 17-0-0 to 24-0-14, Interior (1) 24-0-14 to 25-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.



 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 beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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/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)

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											RELEAS	E FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	R	oof - Osa	age Lot 7	77		
P230812	В9		Half Hip		2	1		ob Refere	ance (on	tional		LOPMENT SERVICES 161779278 S SUMMIT, MISSOURI
	Supply (Springhill, KS), S	pring Hills, KS - 66083,		Run: 8.63 S Au	g 30 2023	Print: 8.630 S						
				ID:LICGyswr50	sBB2j9cau	NtzxFdZ-RfC	?PsB70H	q3NSgPqn	L8w3uIT	XbGKV	rCDoi7J42JC91	00/2023
	-0-10-	⁸ 6-3-13	1	12-6-11	I		21-	0-0			25-11	-8
	0-10-	3 6-3-13	I	6-2-14	ſ		8-5	5-5		1	4-11-	8
										6	×6 =	1.5x4 n
- °	0-1-9								0-1-9 H	5	. 🖂	6
- <u></u>	o							_	6	-1		
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					- TH							
7-7-3	1-4-1		1.5x4 👟		\neg	\sim					$\langle \rangle$	7-4-7
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	o 1 ²											
\perp \perp						¢		Ŧ				₩ 7 ⊥
		͡3 4x4 =		10		9		8				⊠ 5x5 =
				3x4 =		3x4 =		4x4 =				0.00 -
	1		9-8-2			11-6		1			5-11-8	
Scale = 1:52.7	ľ		9-8-2	I	7.	3-5		1		ę	9-0-2	I
	, Y): [4:0-4-0,0-3-0]											
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	0.87	Vert(LL)	-0.24	2-10	>999	240	MT20	197/144
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.76 0.91	Vert(CT) Horz(CT)	-0.53 0.06		>579 n/a	180 n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S	0.01	1012(01)	0.00	•			Weight: 117 lb	FT = 20%
LUMBER			4) This truss I	nas been designed	for a 10.0	psf bottom						
	2x4 SP No.2 *Excep	t* 4-5:2x4 SP 1650F		oad nonconcurrent								
	1.5E 2x4 SP No.2 *Excep	t* 9-2:2x4 SP 1650F	crushing ca	re assumed to be: . apacity of 565 psi, J								
	1.5E 2x3 SPF No.2 *Exce		capacity of	565 psi. echanical connectio	n (by oth	ers) of trues	to					
BRACING	2AD OFF NU.Z EXCE	pt 1-0.234 OF 110.2	bearing pla	te capable of withs	tanding 2							
TOP CHORD	Structural wood she			258 lb uplift at joint s designed in acco		th the 2018						
	2-2-0 oc purlins, ex	cept end verticals, ar	nd () Inis Iruss I	s designed in accor								

- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size 8) or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard

7-8=-232/648 3-10=-405/242, 4-10=-36/490, 4-8=-933/348, 5-8=-162/955, 5-7=-1140/415 Unbalanced roof live loads have been considered for

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 21-0-0, Exterior(2E) 21-0-0 to 25-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 7-9-1 oc

2=0-3-8, 7=0-5-8

Max Uplift 2=-258 (LC 8), 7=-294 (LC 8) Max Grav 2=1230 (LC 1), 7=1155 (LC 1)

(lb) - Maximum Compression/Maximum

1-2=0/6, 2-3=-2595/508, 3-5=-2214/409,

2-10=-732/2384, 8-10=-558/1780,

5-7

BOT CHORD

REACTIONS (size)

WFBS

FORCES

WEBS

NOTES 1)

TOP CHORD

BOT CHORD

this design.

bracing.

Tension

1 Row at midpt

Max Horiz 2=314 (LC 8)

5-6=-10/1, 6-7=-158/86

3) Provide adequate drainage to prevent water ponding.



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									RELEASE FOR CONSTRUCTION
Job	Trus	SS	Truss Type		Qty F	Ply	Roof - Osag	e Lot 77	AS NOTED FOR PLAN REVIEW
P230812	B10)	Half Hip		2 1	1	Job Referen	ce (ontional	DEVELOPMENT SERVICES 161779279 LEE'S SUMMIT, MISSOURI
Premier Building	Supply (Springhill, KS), Spring Hills, KS - 66083,		Run: 8.63 S Aug 30 2			0 2023 MiTek In	dustries, Inc.	Ved Nov 1 1432 6/29 23
				ID:LICGyswr5OsBB2j	9caufNtzxFdZ-l	RfC?PsB7	0Hq3NSgPqnL8	3w3ulTXbGKV	
			/-7-3 /-7-3	<u>14-4-14</u> 6-9-11			23-0-		25-11-8
		0-10-8	-7-3	6-9-11			0-7-2	-	
	0 0							o	
8-3-3	0-6-0 		1.3 3 12	412 5x4	3x4 1x4 = 5	13	9	6-1-0	
		4x4 =		3x4=	3x4 =		4x4 =		5x5 =
		I	10-8-4	1	18-1-	9	I	2	5-11-8
Scale = 1:55.7			10-8-4	1	7-5-5				7-9-15
Loading TCLL (roof) TCDL BCDL BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	No.2 2x4 SP No.2 *Exc 1.5E 2x3 SPF No.2 *Ex Structural wood s 2-2-0 oc purlins, 2-0-0 oc purlins, (Rigid ceiling direc bracing, 1 Row at midpt (size) 2=0-3-1 Max Horiz 2=343 Max Uplift 2=-250 Max Grav 2=1233 (lb) - Maximum C Tension 1-2=0/6, 2-3=-252 5-6=-1119/224, 6 2-11=-697/2314, 1 8-9=-141/388	Plate Grip DOL Lumber DOL Rep Stress Incr Code 5E *Except* 6-7:2x4 SP sept* 10-2:2x4 SP 1650 except* 9-6:2x4 SP No.2 heathing directly applie except end verticals, ar 6-0-0 max.): 6-7. ttly applied or 8-5-0 oc 7-8, 6-8 8, 8=0-3-8 (LC 8), 8=-302 (LC 8) 0 (LC 1), 8=1155 (LC 1) ompression/Maximum 24/459, 3-5=-2114/348, -7=-6/1, 7-8=-81/28 9-11=-474/1547, -11=-76/654, 5-9=-972/	chord live I 5) Bearings a crushing ca capacity of 6) Provide me bearing pla joint 8 and d 7) This truss i Internation R802.10.2 8) Graphical p or the orier bottom cho LOAD CASE(S	BC 0 WB 0 Matrix-S has been designed for a oad nonconcurrent with re assumed to be: Joint apacity of 565 psi, Joint 565 psi. echanical connection (by the capable of withstandi 250 lb uplift at joint 2. Is designed in accordance and referenced standar ourlin representation doe nation of the purlin along ord.	any other live 2 SP 1650F 8 SP No.2 cru r others) of tru ng 302 lb upl ce with the 20 cions R502.11 d ANSI/TPI 1 es not depict f	-) -0. T) 0. om e loads. 1.5E ushing uss to ift at 118 I.1 and the size	34 2-11 :	l/defl L/d >904 240 >416 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 120 lb FT = 20%
 Unbalance this design Wind: ASC Vasd=91m Ke=1.00; C exterior zo Interior (1) 25-10-4 zc vertical left MWFRS fc grip DOL= 	n. CE 7-16; Vult=115m nph; TCDL=6.0psf; I Cat. II; Exp C; Encle one and C-C Exterio) 4-1-8 to 23-0-0, Ex one; cantilever left a t exposed;C-C for n or reactions shown; e1.60	ve been considered for ph (3-second gust) BCDL=6.0psf; h=35ft; ssed; MWFRS (envelop r(2E) -0-10-8 to 4-1-8, tterior(2E) 23-0-0 to ind right exposed ; end nembers and forces & Lumber DOL=1.60 plat prevent water ponding							NATHANIEL FOX PE-2022042259 FSSIONAL ENGLISH November 2,2023
Design va a truss sy building d	alid for use only with MiTe /stem. Before use, the bu	ek® connectors. This design i ilding designer must verify the I is to prevent buckling of indiv	based only upon parameter applicability of design paran idual truss web and/or chord	EK REFERENCE PAGE MII-74 s shown, and is for an individu neters and properly incorporate members only. Additional terr	al building compo this design into porary and perm	onent, not the overall nanent brac			MiTek®

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								RELEASE FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
P230812	B11		Half Hip		2	1	Job Reference (option	DEVELOPMENT SERVICES 161779280 LEE'S SUMMIT, MISSOURI
Premier Building	Supply (Springhill, KS), Sp	oring Hills, KS - 66083,		Run: 8.63 S	Aug 30 2023 Print:	: 8.630 S Aug (30 2023 MiTek Industries, In	
				ID:LICGyswr5	5OsBB2j9caufNtzx	:FdZ-RfC?PsB	370Hq3NSgPqnL8w3uITXbG	
		-0-10-8	8-5-4		15-11-9		25-0-0	25-11-8
		0-10-8	8-5-4	·	7-6-5		9-0-7	0-11-8 1.5x4 u
								1.5X4 II 6X6=
								ი 6 7
	0-1-9							
					12 4	4x4 =	13	
					3x4 =	5		
				1.5x4 💊	4		/	
	8-11-3 8-8-7 8-8-7			3	Ter //	$/\!/$	× //	8-8-1
				T		Ň		
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		1 2	<u> </u>		V			
					11 10		9	
		4x4=			3x4= 3x4	↓ =	4x4=	8 3x4=
								0
			<u>11-3-10</u> 11-3-10			<u>19-3-15</u> 8-0-5		<u>11-8</u> 7-9
Scale = 1:64.8			11-0-10			δ-0-0		
Loading	(psf)	Spacing	2-0-0	CSI		FL		/d PLATES GRIP
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC		. ,).41 2-11 >749 24).90 2-11 >345 18	
BCLL	0.0	Rep Stress Incr	YES	WB		. ,		/a
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S				Weight: 134 lb FT = 20%
LUMBER TOP CHORD	2x4 SP 1650F 1.5E *	Except* 6-7:2x4 SP	This truss h	lequate drainage has been designe	ed for a 10.0 psf	fbottom		
	No.2 2x4 SP No.2 *Except	·	chord live l	load nonconcurre	ent with any othe	er live loads.		
	1.5E		crushing ca	apacity of 565 psi				
WEBS	2x4 SP No.2 *Except No.2	* 11-3,11-5,9-5:2x3	Provide me	echanical connec	tion (by others)	of truss to		
BRACING TOP CHORD	Structural wood shee	thing directly applie	bearing pla	ate capable of wit 242 lb uplift at jo	hstanding 308 lb	o uplift at		
	Structural wood shea		7) This truss i	is designed in actional Residential Co	cordance with th			
BOT CHORD	2-0-0 oc purlins (10-0 Rigid ceiling directly a		R802.10.2	and referenced s	standard ANSI/T	TPI 1.		
WEBS	bracing. 1 Row at midpt 6	6-8, 5-9		purlin representat ntation of the purl				
REACTIONS ((size) 2=0-3-8, 8=	=0-3-8	bottom cho LOAD CASE(S					
	Max Horiz 2=372 (LC Max Uplift 2=-242 (LC	,) Stanuara				
1	Max Grav 2=1234 (L0	C 1), 8=1150 (LC 1)						
FORCES	(lb) - Maximum Comp Tension							
TOP CHORD	1-2=0/6, 2-3=-2486/4 5-6=-978/172, 6-7=-3							
BOT CHORD	2-11=-686/2275, 9-11 8-9=-61/150							
WEBS	7-8=-173/261, 3-11=-							Manag
	6-9=-278/1221, 6-8=- 5-11=-116/811, 5-9=-							TE OF MISSO
								NATHANIEL
this design.							ŧ	FOX
	E 7-16; Vult=115mph ((3-second gust)					a	MAA ACANA
	nn' ICDL=6.00ST BCL) =6.0psf: h=35ft;					N	
Vasd=91m Ke=1.00; C	Cat. II; Exp C; Enclosed		э)				8	Ta handler the
Vasd=91m Ke=1.00; C exterior zor Interior (1)	Cat. II; Exp C; Enclosed ne and C-C Exterior(2E 4-1-8 to 25-0-0, Exterio	d; MWFRS (envelope E) -0-10-8 to 4-1-8, or(2E) 25-0-0 to	e)				Ę	PE-2022042259
Vasd=91m Ke=1.00; C exterior zor Interior (1) 25-9-12 zor	Cat. II; Exp C; Enclosed ne and C-C Exterior(2E	t; MWFRS (envelope =) -0-10-8 to 4-1-8, or(2E) 25-0-0 to right exposed ; end	e)					PE-2022042259
Vasd=91mj Ke=1.00; C exterior zor Interior (1) 25-9-12 zor vertical left forces & M	Cat. II; Exp C; Enclosed ne and C-C Exterior(2E 4-1-8 to 25-0-0, Exterio ne; cantilever left and r	t; MWFRS (envelope E) -0-10-8 to 4-1-8, or(2E) 25-0-0 to right exposed ; end C for members and	e)				Į	

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R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

TOP CHORD

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 7-8,8-6:2x4 SP No.2 WEBS BRACING Structural wood sheathing directly applied, TOP CHORD except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 1 Row at midpt 7-8.6-8 2=0-3-8, 8=0-3-8 **REACTIONS** (size) Max Horiz 2=390 (LC 8) Max Uplift 2=-234 (LC 8), 8=-317 (LC 12) Max Grav 2=1228 (LC 1), 8=1154 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/6, 2-3=-2610/416, 3-4=-2319/355, 4-6=-1343/175, 6-7=-100/44, 7-8=-175/129 BOT CHORD 2-11=-711/2381, 9-11=-525/1816, 8-9=-265/876

WFBS 3-11=-347/214, 4-11=-82/543, 4-9=-830/300, 6-9=-95/809, 6-8=-1244/381

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 25-9-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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. All bearings are assumed to be SP No.2 crushing 3)

capacity of 565 psi. 4) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 317 lb uplift at joint 8 and 234 lb uplift at joint 2.

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November 2,2023





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779282
P230812	C1	Common Supported Gable	2	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 91 1433 ID:qNSd8uN6qGz9aVuDen1oEAzxFbh-RfC?PsB70Hq3NSgPqnL8w3uITXbC KWrCDoi J4-307f



Scale = 1:30.3

Plate Offsets (X, Y): [2:0-2-0,0-1-12]

												-
Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 28 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 2-0-0 oc purlins, ex (Switched from shee Rigid ceiling directly bracing. (size) 7=5-8-0, 8 10=5-8-0, Max Horiz 11=220 (I Max Uplift 7=-69 (LC) 10=-173 (Max Grav 7=134 (LC) 	eted: Spacing > 2-8-0 applied or 6-0-0 oc 3=5-8-0, 9=5-8-0, 11=5-8-0 _C 9) > 12), 8=-168 (LC 13) LC 12), 11=-100 (LC 2 19), 8=345 (LC 20) C 22), 10=301 (LC 15)	 only. For see Stand or consult 4) Gable req 5) Truss to b braced ag 5) This truss chord live 8) All bearing capacity of gable stury capacity of gable stury for the struss of the strust of the struct of the str	igned for wind loa studs exposed to v ard Industry Gable qualified building of uires continuous b e fully sheathed fr ainst lateral mover ls spaced at 1-4-0 has been designe load nonconcurrer is are assumed to f 565 psi. echanical connect ate capable of with D buplift at joint 7. ft at joint 8. is designed in accural Residential Coc and referenced si	wind (norm e End Deta designer a: bottom chor om one fac ment (i.e. d) oc. d for a 10.0 nt with any be SP No. tion (by oth histanding 1 , 173 lb up cordance w de sections	al to the face ils as applica s per ANSI/TI d bearing. d bearing. e or securely iagonal web) 0 psf bottom other live loa 2 crushing ers) of truss t 00 lb uplift at ift at joint 10 ith the 2018 s R502.11.1 a), ble, PI 1. , ds. to t and					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		purlin representati ntation of the purli			size					
TOP CHORD		=0/91, 2-3=-157/193, 178/392, 5-6=-93/13	bottom ch	ord.								
BOT CHORD	0 10-11=-83/79, 9-10= 7-8=-83/79	-83/79, 8-9=-83/79,									OF	MISSO
WEBS	4-9=-287/59, 3-10=-	237/264, 5-8=-260/3	65							5	THE OF I	10°0
NOTES										A	1221	N CAN
 Unbalance this design Wind: AS Vasd=910 Ke=1.00; exterior z and right exposed; 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose cone and C-C Corner(3E exposed ; end vertical C-C for members and f shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever lei left and right orces & MWFRS for	e)							Phil Price	Jathan	X 042259 X X K X X X X X X X X X X X X X X X X

November 2,2023

6/2023

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A 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 ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.t	pinst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)	

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779283
P230812	C2	Common	8	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 1433 DI:UXOjrqmBI5?cQPKNWVcIXwzxFbB-RfC?PsB70Hq3NSgPqnL8w3uITXbG KWrCDoirJuter 1





Scale = 1:34.8				2.00		200						
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	0.16	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.01	5-6	>999	180		
BCLL BCDL	0.0 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-R	0.04	Horz(CT)	0.00	4	n/a	n/a	Weight: 23 lb	FT = 20%
BCDL	10.0	Code	IRG2010/1FI2014	IVIAUIX-R							Weight. 23 lb	FT = 20%
LUMBER				is designed in acco								
TOP CHORD				nal Residential Cod			and					
BOT CHORD	2x4 SP No.2			2 and referenced sta	andard AN	ISI/TPI 1.						
WEBS	2x4 SP No.2 *Excep	ot* 5-2:2x3 SPF No.2	2 LOAD CASE(S) Standard								
BRACING	o											
TOP CHORD	Structural wood she 5-3-8 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly		c									
BOT ONORE	bracing.		0									
REACTIONS	(size) 4=0-3-8, 6	6=0-3-0										
	Max Horiz 6=99 (LC											
	Max Uplift 4=-31 (LC	,										
	Max Grav 4=225 (LC	C 1), 6=225 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=-181/239, 2-3=-	177/266, 3-4=-170/2	242,									
BOT CHORD	1-6=-178/229 5-6=-154/90, 4-5=-1	54/00										
WEBS	2-5=-173/73	54/90										
NOTES	2 0- 110/10											
	ed roof live loads have	been considered fo	r									
this design												
	CE 7-16; Vult=115mph	(3-second gust)										
	nph; TCDL=6.0psf; BC											and the second se
	Cat. II; Exp C; Enclose										STATE OF I	A Participant
	one and C-C Exterior(2									6	ALE OF I	WIISS W
	exposed ; end vertical and right exposed;C-C		ad,							A	7.5	N.S.
	IWFRS for reactions s									A	S NATHA	ANIEL CAN
	plate grip DOL=1.60									1	FO	X V
	has been designed for	r a 10.0 nef bottom								ИA		

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 6 and 31 lb uplift at joint 4.



6/202



							RELEASE FOR CONSTRUCTION
Jo	h	Truss	Truss Type	Qty	Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
100	6	11033		QUY	1 19	Noor - Osage Lot II	DEVELOPMENT SERVICES I61779284
P2	230812	D1	Monopitch	10	1	Job Reference (optional	
					-		

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 133 06/2023 ID:_sXE6HoZjjAnaEAfModiLMzxFYZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7Jzzerf



4-7-3	8-11-8
4-7-3	4-4-5

Plate Offsets (X, Y): [2:Edge,0-1-10]

Scale = 1:33.7

	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 1	-	-								
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	0.36	Vert(LL)	0.06	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	0.05	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%
LUMBER			6) This trus	s is designed in acc	cordance w	ith the 2018						
TOP CHORD	2x4 SP No.2		Internatio	nal Residential Co	de sections	s R502.11.1 a	and					
BOT CHORD	2x4 SP No.2		R802.10	2 and referenced s	tandard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LOAD CASE	(S) Standard								
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly bracing.	applied or 5-6-1 oc										
REACTIONS	(size) 2=0-3-8,	5= Mechanical										
	Max Horiz 2=143 (LO	C 8)										
	Max Uplift 2=-201 (L		1									
	Max Grav 2=468 (L0	C 1), 5=388 (LC 1)										
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD		00. 3-4=-61/27.										
	4-5=-116/139	00,01 01/21,										
BOT CHORD	2-6=-1017/580, 5-6=	-1017/580										
WEBS	3-5=-626/1098, 3-6=	=-421/212										
NOTES												
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										
Vasd=91r	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;										
	Cat. II; Exp C; Enclose		pe)									an
	one and C-C Exterior(2										TATE OF	MIG
) 4-1-8 to 8-10-4 zone;		right							9	BIE	N. OSCIM
	end vertical left expos		_							B	AN .	N N
	C-C for members and f shown; Lumber DOL=		r							B	S/ NAIN	TIMEL VY
DOL=1.60		1.00 plate grip								2	FO	X-
	has been designed fo	r a 10.0 psf bottom									11	avx y
	load nonconcurrent w		ids.							81	111	A
	are assumed to be: Jo									N.	a raw	KED ONAN
capacity c			-							N S	PE-2022	042250 758
	irder(s) for truss to trus									N	PE-2022	1042239 SA
	nechanical connection									Y	A Co	1 SPA
	late capable of withsta		t								PE-2022	TENA
joint 5 and	d 201 lb uplift at joint 2.										and the	L'A
											alle	

November 2,2023



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	
P230812	D2	Monopitch	10	1	lah Deference (antional	DEVELOPMENT SERVICES 161779285 LEE'S SUMMIT, MISSOURI
			-		Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 01 49333 ID:78C7o6q0croABosuZ?dZ0HzxFUe-RfC?PsB70Hq3NSgPqnL8w3uITXbGFWrCDoi7J4z5



b

-0-10-8 3-11-8 0-10-8 3-11-8



			3-11-	-8	

Scale = 1:26.4												
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	0.28	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	4-0-0 oc purlins, except end verticals.
	Pigid coiling directly applied or 10.0.0 oc

BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc					
REACTIONS	(size)	2=0-3-8, 4= Mechanical					
	Max Horiz	2=70 (LC 8)					
	Max Uplift	2=-77 (LC 8), 4=-46 (LC 12)					
	Max Grav	2=248 (LC 1), 4=157 (LC 1)					
FORCES	(lb) - Maximum Compression/Maximum						

Tension TOP CHORD 1-2=0/6, 2-3=-82/36, 3-4=-120/175 BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 77 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 2,2023



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty Ply	Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
000	11033		Giy	i iy	Rool - Osage Lot II	DEVELOPMENT SERVICES 161779286
P230812	D3	Monopitch Supported Gable	2	1	Job Reference (optional	

9-0-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

-0-10-8

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 1433 DI:R6HKgN9OyKXimYirSO47xGzxFSx-RfC?PsB70Hq3NSgPqnL8w3uITXbG KWrCDoi 1423



Scale	_	1.22 1
Scale	=	1:33.1

TOP CHORD

BOT CHORD

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

DOL=1.60

WEBS

1)

2)

3)

NOTES

REACTIONS (size)

2x4 SP No.2

2x4 SP No.2

2x3 SPF No.2

2x3 SPF No.2

bracing.

Max Horiz

Max Uplift

Max Grav

Tension

Structural wood sheathing directly applied or

2=9-0-0, 7=9-0-0, 8=9-0-0,

2=-26 (LC 8), 7=-18 (LC 8), 8=-54 (LC 12), 9=-43 (LC 8), 10=-79 (LC

2=183 (LC 1), 7=66 (LC 1), 8=202

(LC 1), 9=149 (LC 1), 10=261 (LC

6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

9=9-0-0, 10=9-0-0

(lb) - Maximum Compression/Maximum

1-2=0/6, 2-3=-259/84, 3-4=-151/45, 4-5=-97/33, 5-6=-28/12, 6-7=-52/65

2-10=0/0, 9-10=0/0, 8-9=0/0, 7-8=0/0 5-8=-156/196, 4-9=-118/147, 3-10=-199/273

2=143 (LC 8)

12)

1)

Wind: ASCE 7-16; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;

Exterior(2N) 4-1-8 to 8-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8,

Truss designed for wind loads in the plane of the truss

or consult qualified building designer as per ANSI/TPI 1.

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,

All plates are 1.5x4 MT20 unless otherwise indicated.

Loading TCLL (roof) TCDL BCLL BCDL LUMBER

33.1												
	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
f)	25.0	Plate Grip DOL	1.15	тс	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	n/a	-	n/a	n/a		
	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 35 lb	FT = 20%
	 Gable requires continuous bottom chord bearing. 											

9-0-0

4)	Gable	requires	continuous	DOLLOH
F)	Cable		a a a d a d a d a	0.00

) Gable studs spaced at 2-0-0 oc.

6) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7, 26 lb uplift at joint 2, 54 lb uplift at joint 8, 43 lb uplift at joint 9 and 79 lb uplift at joint 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

PE-2022042259

6/2023

November 2,2023



A 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 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)

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty Ply		Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
000	11400		Cety 1 ly	,		DEVELOPMENT SERVICES I61779287
P230812	E1	Common Supported Gable	2	1	Job Reference (optional	
Premier Building Supply (Springh						

ID:zTnobfY4ATh0DdjBuqAsmEzxFSQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGtWrCDoi7342991



			L		16-0-0					_		
Scale = 1:52.3			1									
Plate Offsets ((X, Y): [2:0-2-0,0-1-4	, [17:0-5-8,0-1-8]		-								
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	4-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.29 0.29 0.83	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 MT18HS Weight: 97 lb	GRIP 197/144 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exc 2x3 SPF No.2 *Exc 2x3 SPF No.2 2-0-0 oc purlins (6- verticals (Switched from she Rigid ceiling directh bracing. (size) 17=16-0 20=16-0 23=16-0 29=16-0 29=16-0 29=16-0 Max Horiz 30=-485 Max Uplift 17=-701 19=-107 21=-116 23=-68 (25=-47 (ept* 17-15:2x4 SP No. D-0 max.), except end eted: Spacing > 2-8-0) y applied or 6-0-0 oc 0, 18=16-0-0, 19=16-0 0, 21=16-0-0, 22=16-0 0, 27=16-0-0, 28=16-0 0, 30=16-0-0	TOP CHORD 2 BOT CHORD	2-30=-249/273, 3-4=-100/266, 4 6-7=-298/669, 11-12=-350/391 13-14=-408/402 15-16=0/86, 15 29-30=-386/387 27-28=-386/387 23-24=-386/387 23-24=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-386/387 19-20=-211/224, 4-28=-204/221, 9-23=-228/100, 11-21=-203/186 13-19=-210/228 red roof live loads l	4-5=-166/39 7-8=-331/73 10-11=-31 1, 12-13=-3 2, 14-15=-5 -17=-527/44 7, 28-29=-3 7, 26-27=-3 7, 26-27=-3 7, 20-21=-3 7, 20-21=-3 7, 20-21=-3 7, 18-19=-3 7 7-25=-195 5-27=-202 3-29=-142 10-22=-19 5, 12-20=-2 3, 14-18=-2	14, 5-6=-226/52 16, 8-9=-331/73 175 179/392, 17/533, 175 179/392, 17/533, 175 179/392, 1773, 179/392, 179/392, 179/392, 179/392, 179/392, 179/392, 170/387, 186/387, 186/387, 186/387, 186/387, 186/387, 19	'	brace 8) Gat 9) This cho 10) All H cap 11) Pro bea join 47 I at jc 29, upli join 12) This Inte R80 13) Gra 30 Gat	ced agai le studs s truss h rd live lc bearings acity of s vide me- ring plat t 30, 701 b uplift a 30, 701 b uplift a 30, 701 68 lb up ff at joint t 19 and s truss is rnationa 02.10.2 a phical p phical p	inst lat s space as bee bad nois s are as 565 ps chanic te capa 1 lb up at joint 115 lb lift at ju t 21, 12 553 lb s desig al Resid and ref urlin re- tation of rd.	heathed from on- eral movement (ed at 1-4-0 oc. en designed for a nconcurrent with ssumed to be SF si. cal connection (by able of withstand lift at joint 17, 12 25, 145 lb uplift uplift at joint 28, oint 23, 138 lb up 21 lb uplift at joint 18 oned in accordan dential Code sec ferenced standar epresentation doo of the purlin alon	e face or securely i.e. diagonal web). 10.0 psf bottom any other live loads. No.2 crushing y others) of truss to ing 138 lb uplift at 1 lb uplift at joint 24, at joint 26, 118 lb uplift 188 lb uplift at joint 24, at joint 26, 118 lb uplift 188 lb uplift at joint 188 lb uplift at joint 188 lb uplift at joint ift at joint 22, 116 lb t 20, 107 lb uplift at ce with the 2018 tions R502.11.1 and d ANSI/TPI 1. es not depict the size
29=-188 (LC 9), 30=-138 (LC 8) Max Grav 17=780 (LC 10), 18=616 (LC 11), 19=250 (LC 26), 20=258 (LC 20), 21=255 (LC 20), 22=251 (LC 20), 23=281 (LC 20), 24=510 (LC 12), 25=249 (LC 1), 26=264 (LC 19), 27=257 (LC 19), 28=252 (LC 19), 29=266 (LC 10), 30=265 (LC 20) FORCES (lb) - Maximum Compression/Maximum Tension		 Winci AS Vasd=91i Ke=1.00; exterior (2) Exterior(2) Exterior(2) right expc for memb Lumber E Truss de only. For see Stanc or consul All plates All plates 	Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E] -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 7-4-0, Corner(3R) 7-4-0 to 12-4-0, Exterior(2N) 12-4-0 to 16-10-8 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 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. All plates are 1.5x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.					-		PE-2022	BER 042259	

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated. 4)
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779288
P230812	E2	Common	10	1	Job Reference (option	
Premier Building Supply ((Springhill, KS), Spring Hills, KS - 66083				g 30 2023 MiTek Industries, In fC?PsB70Hq3NSgPqnL8w3uI	
	-0-1	0-8 7-4-0		-8-12	16-0-0 16	5-10-8
	0-1	0-8 7-4-0	5-	4-12	3-3-4 0	-10-8
			4x6 =			
	TT	9 ¹²	3	~		
	7-6-4 7-5-0	10 6x6=			1.5x4 = 11 4	
		2			Ì	5 6 1
	-) 9 	8 3x8 =		5x1	
Scale = 1:51.4		7-4-0			-0-0 8-0	

Plate Offsets (X, Y): [7:Edge.0-3-8]

Plate Offsets ((X, Y): [7:Edge,0-3-8]										-	
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.73 0.61 0.23	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.23 0.01	(loc) 7-8 7-8 7	l/defl >999 >825 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018/TF	PI2014 Mat	rix-S						Weight: 77 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 5-0-6 oc purlins, ex	athing directly appli cept end verticals.	be 9 No.2 6) Th In ed or Ri LOAD	earing plate capa and 121 lb uplift his truss is design ternational Resign	ned in accordance v lential Code section erenced standard A	110 lb uplift a vith the 2018 s R502.11.1 a	it joint					
REACTIONS	0	9=0-3-8										
	Max Horiz 9=-243 (L											
	Max Uplift 7=-121 (L Max Grav 7=778 (L0		12)									
FORCES	(lb) - Maximum Corr	,, , ,										
	Tension											
TOP CHORD	1-2=0/43, 2-3=-687/ 4-5=-832/206, 5-6=0 5-7=-688/210	, , ,										
BOT CHORD	8-9=-245/362, 7-8=-											
WEBS	3-8=-3/323, 4-8=-23	9/226, 2-8=-53/328										
NOTES 1) Unbalance	ed roof live loads have	been considered fo	r									
this design												and a
Vasd=91n Ke=1.00; exterior zc Interior (1)	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-8 to 7-4-0, Exterior) 12-4-0 to 16-10-8 zor	DL=6.0psf; h=35ft; d; MWFRS (envelo PE) -0-10-8 to 4-1-8, or(2R) 7-4-0 to 12-4	-0,						-		STATE OF I	
	sed ; end vertical left a									N/*	11	

- for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 3)
- 4) capacity of 565 psi.

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 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)



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MBER

PE-2022042259

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Corona -

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779289
P230812	E3	Common		8	1	Job Reference (optional	LEE'S SUMMIT MISSOURI
Premier Building Supply (Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, DisklbY_10_gexrEDTRTkrEAlzxFQX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK						
		0.10.8	D.wib1_10_gexiLD1				



Scale = 1:51.4		
Plata Offcate (V	V١٠	[5·0 5 2 0 1 9]

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	0.73	Vert(LL)	-0.12	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.22	6-7	>841	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%

16-0-0

8-8-0

LUMBER

TOP CHORD

BOT CHORD 2x4 SP No.2 2x3 SPF No.2 *Except* 8-2,6-5:2x4 SP No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.2

7-5-0

- (size) REACTIONS 6=0-3-8, 8=0-3-8 Max Horiz 8=-229 (LC 10) Max Uplift 6=-95 (LC 13), 8=-110 (LC 12) Max Grav 6=705 (LC 1), 8=781 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/43, 2-3=-688/162, 3-4=-632/182, 4-5=-839/208, 2-8=-713/202, 5-6=-610/160 BOT CHORD 7-8=-254/353, 6-7=-133/591
- WFBS 3-7=-3/323, 4-7=-252/229, 2-7=-53/328
- NOTES
- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-4-0, Exterior(2R) 7-4-0 to 12-4-0, Interior (1) 12-4-0 to 15-10-4 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
- All plates are MT20 plates unless otherwise indicated. 3)
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 5) capacity of 565 psi.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 8 and 95 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

7-4-0

7-4-0



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
000	11033		Quy	l' ly	Rool - Osage Lot II	DEVELOPMENT SERVICES 161779290
P230812	E4	Roof Special	4	1	Job Reference (optional	
			-	-		

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 143:43 6/29 23 ID:HY28PNq7N0R8tSE4HnNes3zxFCa-RfC?PsB70Hq3NSgPqnL8w3ulTXb4 KWrCDoir J 42:49 6/29 23



	1-6-0	7-4-0	16-0-0	
	1-6-0	5-10-0	8-8-0	
Scale = 1:52.7				
Plate Offsets (X, Y): [2:0-2-0,0-1-12], [6:0-5-3,0-1-8]				

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	тс	0.53	Vert(LL)	-0.13	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.26	7-8	>731	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x3 SPF No.2 *Except* 11-2,7-6:2x4 SP No.2 WEBS BRACING Structural wood sheathing directly applied or TOP CHORD 5-5-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 7= Mechanical, 11=0-3-8 (size) Max Horiz 11=209 (LC 11) Max Uplift 7=-101 (LC 13), 11=-115 (LC 12) Max Grav 7=705 (LC 1), 11=781 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/43, 2-3=-594/124, 3-4=-636/184, 4-5=-626/173, 5-6=-838/213, 2-11=-510/129, 6-7=-607/155 BOT CHORD 10-11=-119/491, 9-10=0/85, 3-10=-183/93, 8-9=-125/452.7-8=-131/593 WEBS 3-8=-56/163, 4-8=-36/321, 5-8=-255/230

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-4-0, Exterior(2R) 7-4-0 to 12-4-0, Interior (1) 12-4-0 to 15-10-4 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
- All plates are MT20 plates unless otherwise indicated.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.5) Bearings are assumed to be: Joint 11 SP No.2 crushing
- Bearings are assumed to be: Joint 11 SP No.2 crushing capacity of 565 psi.

Refer to girder(s) for truss to truss connections.
 Provide mechanical connection (by others) of tru

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint

11 and 101 lb uplift at joint 7.

- 8) 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



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									RELEA	SE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Roof -	Osage Lot	77		ELOPMENT SERVICES
P230812	E5	Roof Special		2	1	Job Re	ference (o	ptional	LEE	I61779291 SUMMIT, MISSOURI
Premier Building Supply	y (Springhill, KS), Spring Hills, KS		Run: 8.63 S Au ID:?MLvUUN2?							
		1-7-12 -0-10-8 	7-4-0 5-8-4		<u>2-8-12</u> 5-4-12		<u>16-0-0</u> 3-3-4	16-10- 0-10-		
		0 10 0		4x4 = 4				0 10 1	5	
	7-6-4 6-5-0 1-0-0	3x8 ¢ 13 3x8 ¢ 13 1 1 1		9 3x8=		1.5x4 a		4x6 II 6 3x4=	7 0	
Scale = 1:52.7		<u>1-6-0</u> 1-6-0	7-4-0 5-10-0			<u>-0-0</u> 8-0		\neg		
Plate Offsets (X, Y):	[2:0-2-0,0-1-12]									
Loading TCLL (roof) TCDL BCLL	(psf) Spacing 25.0 Plate Grip 1 10.0 Lumber DC 0.0 Rep Stress	L 1.15	CSI TC BC WB	0.69 Ve 0.72 Ve			c) l/defl -9 >999 -9 >763 8 n/a	240 180	PLATES MT20	GRIP 197/144

LUMBER

Т

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

BCDL

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2 *Except* 8-6:2x6 SPF No.2.

Max Horiz 12=218 (LC 11)

12-2:2x4 SP No.2

bracing.

Tension

10.0

Code

Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

8=0-3-8, 12=0-3-8

(lb) - Maximum Compression/Maximum

1-2=0/43, 2-3=-588/125, 3-4=-630/187, 4-5=-620/177, 5-6=-815/213, 6-7=0/46, 6-8=-688/212 2-12=-505/131

11-12=-105/498, 10-11=0/85, 3-11=-183/92,

4-9=-40/315, 3-9=-57/166, 5-9=-227/221

Max Uplift 8=-130 (LC 13), 12=-114 (LC 12) Max Grav 8=781 (LC 1), 12=774 (LC 1)

5)	Provide mechanical connection (by others) of truss to
	bearing plate capable of withstanding 114 lb uplift at joint
	12 and 130 lb unlift at joint 8

2 and 130 lb uplift at joint 8.

Matrix-S

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

LOAD CASE(S) Standard

IRC2018/TPI2014

WEBS NOTES

FORCES

TOP CHORD

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

9-10=-114/457.8-9=-80/560

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-4-0, Exterior(2R) 7-4-0 to 12-4-0, Interior (1) 12-4-0 to 16-10-8 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
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing 4) capacity of 565 psi.

OF MISSO E NATHANIEL FOX ER PE-2022042259 SSIONAL E November 2,2023

Weight: 78 lb

FT = 20%



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779292
P230812	E6	Roof Special Supported Gable	2	1	Job Reference (optional)	
Premier Building Supply	/ (Springhill, KS), Spring Hills, ł	ID:n_xeRUIj5		30 2023 MiTek Industries, Inc. V 70Hq3NSgPqnL8w3uITXbGKV		
		1-7-12 -0-10-8 7-4-0 0-10-81-7-12 5-8-4		<u>16-0</u> 8-8		_
			4x4 =			
	7-6-4	9 ¹² 7 6 1 -2-8 3x4 -2-8 3x4 -2-8 3x4 -2-8 3x4 -2-8 3x4 -2-8 30 29 28 27 26 25	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		² 33 ₁₂ 13 3×4 II 14 14 14 15	

	<u> </u> 1-6-0	16-0-0	
	1-6-0	14-6-0	
Scale = 1:51.4			
Plate Offsets (X, Y): [15:0-2-0.0-1-4]	. [17:Edge.0-2-8]		

3x4 II

	(X, Y): [15:0-2-0,0-1	4j, [17.Euge,0-2-6]												
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	4-0-0 1.15 1.15 NO IRC20	18/TPI2014	CSI TC BC WB Matrix-R	0.19 0.17 0.55	()	in 0.00 0.00 0.02	(loc) 30-31 30-31 17	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 98 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	PP CHORD 2x4 SP No.2 DT CHORD 2x4 SP No.2 EBS 2x4 SP No.2 *Except* 15-17:2x3 SPF No.2 'HERS 2x3 SPF No.2 CACING 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).				2-31=-327/212, 1-2=0/86, 2-3=-264/258, 3-4=-282/305, 4-5=-265/319, 5-6=-231/380, 6-7=-263/454, 7-8=-298/501, 8-9=-298/494, 9-10=-262/426, 10-11=-192/304, 11-12=-130/211, 12-13=-85/141, 13-14=-106/105, 14-15=-190/137, 15-16=0/82, 15-17=-263/112 30-31=-214/245, 29-30=-180/157, 3-30=-129/121, 28-29=-143/174, 20-20-140/174, 00-27, 440/174, 20-20-140/174, 00-27, 440/174, 20-20-140/174, 20					 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 6) Gable studs spaced at 1-4-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at 				
BOT CHORD			<i>.</i> ,.	27-28=-143/174, 26-27=-143/174, 25-26=-143/174, 24-25=-143/174,						lb uplift a	at joint	24, 68 lb uplift a	2 lb uplift at joint 29, t joint 25, 140 lb uplift	
REACTIONS	REACTIONS (size) 17=14-6-0, 18=14-6-0, 19=14-6-0, 20=14-6-0, 20=14-6-0, 21=14-6-0, 22=14-6-0, 23=14-6-0, 23=14-6-0, 23=14-6-0, 22=14-6-0, 29=14-6-0, 29=14-6-0, 29=14-6-0, 32=14-6-0, 32=14-6-0, 32=14-6-0, 31=431 (LC 11) Max Horiz 31=431 (LC 11) Max Uplift 17=-160 (LC 9), 18=-261 (LC 13), 19=-111 (LC 13), 20=-120 (LC 13), 21=-116 (LC 13), 22=-143 (LC 13), 23=-53 (LC 13), 23=-53 (LC 11), 25=-68 (LC 12), 26=-140 (LC 12),			NEBS NOTES	23-24=-143/174, 22-23=-143/174, 21-22=-143/174, 20-21=-143/174, 19-20=-143/174, 18-19=-143/174, 17-18=-143/174 EBS 8-24=-451/192, 7-25=-220/101, 6-26=-201/173, 5-27=-207/150, 4-28=-136/98, 9-23=-197/85, 10-22=-208/175, 11-21=-202/149, 12-20=-202/148, 13-19=-209/155, 14-18=-170/159 OTES					 at joint 26, 113 lb uplift at joint 27, 262 lb uplift at joint 28, 53 lb uplift at joint 23, 143 lb uplift at joint 22, 1 uplift at joint 12, 120 lb uplift at joint 20, 111 lb upli joint 19 and 261 lb uplift at joint 18. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard 				
FORCES	27=-113 (LC 12), 28=-262 (LC 13), 29=-202 (LC 11), 31=-184 (LC 8) Max Grav 17=329 (LC 19), 18=246 (LC 11), 19=259 (LC 20), 20=256 (LC 20), 21=255 (LC 20), 22=262 (LC 20), 23=250 (LC 20), 24=465 (LC 13), 25=274 (LC 19), 26=252 (LC 19), 27=267 (LC 19), 28=240 (LC 20), 29=307 (LC 10), 31=392 (LC 20) ORCES (lb) - Maximum Compression/Maximum Tension				adains a root interfeated inte					•	K	STATE OF	x dr Hac	

or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 1.5x4 MT20 unless otherwise indicated.

STONAL EN GIN Com November 2,2023

Tek° 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

3x4 II

							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779293
P230812	G1	Common Suppo	orted Gable	2	1	Job Reference (optiona	
Premier Building Supply	(Springhill, KS), Spring Hills, KS - 66083,					30 2023 MiTek Industries, Inc. sB70Hq3NSgPqnL8w3uITXb0	
		-0-10-8	<u>5-10-0</u> 5-10-0			<u> </u>	12-6-8
		ბ-10-8	5-10-0	·		5-10-0	b-10-8
				4x4 = 7			
	5-10-10 5-10-5	4x4 II 2 1 22			824	9 8 10	12

18

17

16

15

3x6 =

11-8-0

21

3x6 =

20

19

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [12:0-2-0,0-1-12]

Scale = 1:40.6

	X, Y): [2:0-2-0,0-1-12	2], [12:0-2-0,0-1-12]											
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	4-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-R	0.26 0.13 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 66 lb	GRIP 197/144 FT = 20%
	verticals (Switched from she, Rigid ceiling directly bracing. (size) 14=11-8- 17=11-8- 20=11-8- Max Horiz 22=376 (I Max Uplift 14=-138 16=-119 19=-103 21=-266 (I Max Grav 14=355 (I 16=247 (I 18=348 (I	0, 15=11-8-0, 16=11-4 0, 18=11-8-0, 19=11-4 0, 21=11-8-0, 22=11-4 LC 11) (LC 13), 15=-255 (LC 1 (LC 12), 15=-255 (LC 1 (LC 12), 20=-116 (LC (LC 12), 22=-176 (LC LC 12), 15=348 (LC 2 LC 26), 17=274 (LC 2 LC 22), 19=279 (LC 1 LC 25), 21=368 (LC 1	N(1 1)). 2) 3-0, 3-0 3), 13), 12), 8) 3) 0), 9), (1)	DTES Unbalanced this design. Wind: ASCE Vasd=91mph Ke=1.00; Car exterior zone Exterior Zone Exterior(2N) 10-10-0, Exter left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standarc or consult qu All plates are Gable require	7-18=-532/175, 6- 5-20=-195/299, 4-2 3-22=-316/252, 8- 9-16=-197/300, 10 11-14=-267/202 roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Corner(4-1-8 to 5-10-0, C erior(2N) 10-10-0 t exposed ; end ver f or members and pwn; Lumber DOL: ned for wind loads ds exposed to wir d Industry Gable E alified building de: 1.5x4 MT20 unle: s continuous bott	21=-267 17=-218 -15=-25 re been oh (3-sec CDL=6. sed; MW 3E) -0-1 so 12-6-8 trical left forces = 1.60 pl in the p nd (norm nd Deta signer a ss other om choi	/338, /176,	be) ever , ss), ble, Pl 1. d.	Inte R80 12) Gra or ti	rnationa)2.10.2 a phical p ne orien com choi	al Resid and ref urlin re tation o rd.	ferenced standard spresentation doe of the purlin along ndard	ions R502.11.1 and d ANSI/TPI 1. is not depict the size g the top and/or
FORCES TOP CHORD BOT CHORD	6-7=-270/561, 7-8=- 9-10=-124/257, 10-	=0/91, 2-3=-13/124, .130/258, 5-6=-206/43 :270/563, 8-9=-205/43 11=-185/188, 13=0/91, 12-14=-266/ -21=-184/229, -19=-184/229, -17=-184/229,	^{34,} 9)	braced again Gable studs This truss ha chord live loa All bearings a capacity of 5 Provide mecl bearing plate joint 22, 138 116 lb uplift a	ully sheathed from st lateral moveme spaced at 1-4-0 or s been designed f ad nonconcurrent v are assumed to be 65 psi. hanical connection capable of withst lb uplift at joint 14, at joint 20, 266 lb u 17, 119 lb uplift at	ent (i.e. c c for a 10. with any e SP No an (by oth anding 1 , 103 lb uplift at j	liagonal web). 0 psf bottom other live load 2 crushing ers) of truss to 176 lb uplift at uplift at joint 1 point 21, 101 lb	ds. o 9,			TIM	PE-2022	NIEL X 042259

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 or 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)

* States field, MO 63017 314.434.1200 / MITek-US.com

November 2,2023

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779294
P230812	G2	Common	4	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 143/06/2023 ID:KybgmexPJUHvfiEQCBTNemzxF7G-RfC?PsB70Hq3NSgPqnL8w3ulTXbe KWrCDoi 1423/06/2023





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	0.46	Vert(LL)	-0.03	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 50 lb	FT = 20%

LUMBER

Scale = 1:48.6

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No 2

BOT CHORD	284 35 11	0.2
WEBS	2x4 SP N	o.2 *Except* 7-3:2x3 SPF No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	6-0-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	6=0-3-8, 8=0-3-8
	Max Horiz	8=188 (LC 11)
	Max Uplift	6=-87 (LC 13), 8=-87 (LC 12)
	Max Grav	6=583 (LC 1), 8=583 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/46, 2-3=-510/184, 3-4=-510/184,
	4-5=0/46, 2-8=-528/254, 4-6=-528/254
BOT CHORD	7-8=-10/316, 6-7=-10/316

3-7=0/241

WEBS

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-0, Exterior(2R) 5-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-6-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 8 and 87 lb uplift at joint 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.
 LOAD CASE(S) Standard

> NATHANIEL FOX PE-2022042259 November 2,2023



						KELEASE I
Job	Truss	Truss Type	Qty	Plv	Roof - Osage Lot 77	AS NOTED
305	11035	Truss Type	Quy	ту	RUUI - Osage LUI //	DEVELO
P230812	G3	Common Girder	2	2	Job Reference (optional	LEE'S S

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. ved Nov 41 1433 40 6/2 19:2 ID:2QFI?hT?x?pfxTbtnRFiQ1zxF6a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J4zJ644 ID:2QFI?hT?x?pfxTbtnRFiQ1zxF6a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW



November 2,2023

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Plate Offsets (X, Y): [3:Edge,0-3-8]

		1	-				-					1	
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	0.45	Vert(LL)	-0.05	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.51	Vert(CT)	-0.08	4-5	>999	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	NO		WB	0.26	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-R							Weight: 106 lb	FT = 20%
 (0.131"x3 Top chorco oc. Bottom ch staggered Web conr All loads a except if r CASE(S) provided t unless oth 	2x6 SPF No.2 2x4 SP 2400F 2.0E No.2 Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 4=0-3-8, @ Max Horiz 6=161 (LC Max Uplift 4=-325 (L Max Grav 4=2183 (L (Ib) - Maximum Com Tension 1-2=-2034/426, 2-3= 1-6=-1435/356, 3-4= 5-6=-223/1452, 4-5= 2-5=-287/2082 s to be connected togel ") nails as follows: bords connected as follows ords connected as follows at 0-9-0 oc. prote as follows: 2x4 - are considered equally noted as foront (F) or bar section. Ply to ply com to distribute only loads nerwise indicated.	athing directly applied cept end verticals. applied or 10-0-0 oc 3=0-3-8 2 9) C 13), 6=-344 (LC 12 C 1), 6=2263 (LC 1) pression/Maximum -2034/426, -1435/357 -223/1452 ther with 10d s: 2x4 - 1 row at 0-9-0 cows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been noted as (F) or (B),	d or 5) 6) 7) 8) 9) 10) 11) 12) LO 1)	Vasd=91mpt Ke=1.00; Cat exterior zone Interior (1) 5- 10-10-0, Intel left and right exposed;C-C reactions sho DOL=1.60 All plates are The Fabricati This truss ha chord live loa All bearings a capacity of 4: Provide medi bearing plate joint 6 and 32 This truss is International R802.10.2 ar Use Simpsor Truss, Single oc max. start connect truss Fill all nail ho AD CASE(S) Dead + Roo Plate Increas Uniform Loa Vert: 1-2: Concentrate	nanical connection capable of withsta 25 lb uplift at joint 4 designed in accord Residential Codes and referenced stand Strong-Tie LUS26 Ply Girder) or equing at 1-8-0 from th s(es) to back face c les where hanger i Standard of Live (balanced): I ise=1.15 ads (lb/ft) =-70, 2-3=-70, 4-6= ed Loads (lb) 685 (B), 9=-685 (B)	CDL=6.1 ed; MW 2E) 0-1 erior(2) ical left forces a 1.60 pl so other nt 6 = (or a 10.0 ith any SPF No (by oth noding 3 ance w sections dard AN 6 (4-100 ivalent le left e of bottor s in cor	Dpsf; h=35ft; FRS (envelop -12 to 5-1-12, R) 5-10-0 to icone; cantilev and right & MWFRS for ate grip wise indicate (%, joint 4 = 0 0 psf bottom other live loa 0.2 crushing ers) of truss t i44 lb uplift at i81/TPI 1. 1 Girder, 4-10 spaced at 2-0 nd to 9-8-0 to n chord. itact with lumi	er			Part Part	STATE OF M STATE OF M NATHA FO. PE-20220 NOVA	ER 1 2259

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
P230812	14	Jack-Closed	4	1	, , , , , , , , , , , , , , , , , , ,	DEVELOPMENT SERVICES 161779296
P230012	JI	Jack-Closed	4	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 1233 10: 2015 Nov 1 12





6-11-6

Scale = 1:34.5 Plate Offsets (X, Y): [4:Edge.0-1-8]

	[4.Luge,0-1-0]											
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	0.65	Vert(LL)	-0.04	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.10	2-4	>821	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 25 lb	FT = 20%

- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.2 OTHERS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 2=0-4-9, 4= Mechanical (size) Max Horiz 2=94 (LC 9) Max Uplift 2=-132 (LC 8), 4=-69 (LC 12) Max Grav 2=408 (LC 1), 4=287 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/6, 2-3=-282/126, 3-4=-189/230 BOT CHORD 2-4=-200/218

NOTES

LUMBER

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 6-9-10 zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2 and 69 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.

 "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

- 8) In the LOAD CASE(S) section, loads applied to the face
- of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-3=-70, 2-4=-20





Job Truss Truss Type Qty Ply Roof - Osage Lot 77 AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779297 P230812 J2 Jack-Open 8 1 Job Reference (optional LEE'S SUMMIT, MISSOURI							RELEASE FOR CONSTRUCTION
	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
	P230812	J2	Jack-Open	8	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 1433 DI: POINTER INAKU2wMSycbzzxFil-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42, Ort





2-10-15

Scale = 1:25.4												
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	0.12	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	2-10-15 c	c purlins.
BOT CHORD	0	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-3-8, 3= Mechanical, 4=
		Mechanical
	Max Horiz	2=55 (LC 8)
	Max Uplift	2=-72 (LC 8), 3=-48 (LC 12)
	Max Grav	2=207 (LC 1), 3=81 (LC 1), 4=54
		(LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/6, 2	2-3=-60/28
BOT CHORD	2-4=0/0	

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 72 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard



6/202

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
P230812	J3	Jack-Open	16	1	Job Reference (optional	DEVELOPMENT SERVICES 161779298 LEE'S SUMMIT, MISSOURI

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 1433 5 6/2 9 23 ID:hqFJuF70xwCBQJPjyVEyNfzxFft-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7J4zJeft





5-0-0

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	0.48	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	2-4	>909	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

Scale - 1.26.8

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	5-0-0 oc p	ourlins.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-3-8, 3= Mechanical, 4=
		Mechanical
	Max Horiz	2=86 (LC 8)
	Max Uplift	2=-84 (LC 8), 3=-89 (LC 12)
	Max Grav	2=295 (LC 1), 3=160 (LC 1), 4=96
		(LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/6, 2	2-3=-95/46
BOT CHORD	2-4=0/0	

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-11-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 3 and 84 lb uplift at joint 2.
- 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.

LOAD CASE(S) Standard





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
P230812	J4	Jack-Open Supported Gable	2	1	Job Reference (optional	DEVELOPMENT SERVICES 161779299 LEE'S SUMMIT, MISSOURI
Premier Building Supply (Sprin	ghill, KS), Spring Hills, KS - 66083,	Run: 8.63 S Aug 30 ID:j?OjMFFnRIhAKI	Ved Nov 1 133/106/2023			





5-0-0



Loading TCLL (roof) TCDL BCLL BCDL	(psi 25. 10. 0. 10.	Plate Grip DOLLumber DOLRep Stress Incr	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-P	0.13 0.07 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 2-6 2-6 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	5-0-0 oc purlins. Rigid ceiling dire bracing. (size) 2=5-0 6=5-0 Max Horiz 2=85 Max Uplift 2=-50 (LC 1: Max Grav 2=184	(LC 8) (LC 8), 4=-22 (LC 8),	oc 9) ^{5-0-0,} LC 6=-76	capacity of 5 Refer to gird Provide mec bearing plate 4, 50 lb uplit This truss is International R802.10.2 ar Gap between	er(s) for truss to hanical connect capable of wit at joint 2 and 7 designed in aco Residential Co nd referenced s n inside of top o vertical web sha	o truss conr tion (by oth hstanding 2 76 lb uplift a cordance w de sections standard AN chord bearin	nections. ers) of truss 2 lb uplift at t joint 6. ith the 2018 5 R502.11.1 iSI/TPI 1. ng and first	to joint					
FORCES TOP CHORD BOT CHORD WEBS	(Ib) - Maximum (Tension 1-2=0/6, 2-3=-14 2-6=-12/7, 5-6=0 4-5=0/0, 3-6=-20)/0	n										

NOTES

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 4-10-12 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

2-3-3

 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.

Gable studs spaced at 2-0-0 oc.
 This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
P230812	J5	Jack-Closed Girder	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Nov 02 113: ID:90ph5b8eiEK22SzvVDIBvtzxFfs-DqcyVwXhbUSh8nVAs9RQLsVaL2o4nF, JDRIyjryNFr



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Scale = 1:40.7

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 NO IRC20	18/TPI2014	CSI TC BC WB Matrix-P	0.60 0.83 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.10 0.00	(loc) 3-4 3-4 3	l/defl >925 >491 n/a	L/d 240 180 n/a	GRIP 244/190 FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP 1650F 1.5E 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins, ex D Rigid ceiling directly bracing. (lb/size) 1=-462/0 4=1575/C Max Horiz 1=87 (LC Max Uplift 1=-462 (I 4=-207 (I Max Grav 1=52 (LC 4=1575 ((lb) - Max. Comp./N 	eathing directly applie coept end verticals. y applied or 6-0-0 oc 1-3-8, 3=420/ Mechar 0-1-8, (req. 0-1-14) 2 9) LC 1), 3=-105 (LC 12 LC 8) (LC 1), 420 (LC 1), Max. Ten All forces	ed or ^S L nical, 2),	Truss, Singl oc max. struc connect trus Fill all nail h) In the LOAE of the truss .OAD CASE(S)) Dead + Rc Plate Ince Uniform Lc Vert: 1-2 Concentra	of Live (balanced ase=1.15	quivalent m the left e of bottor r is in cor n, loads a t (F) or ba): Lumber	spaced at 2- end to 3-0-12 n chord. ttact with lum oplied to the ck (B).	0-0 2 to nber. face				
NOTES	(lb) or less except w	vnen snown.										

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 4 greater than input bearing size.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 1, 105 lb uplift at joint 3 and 207 lb uplift at joint 4.
- 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.

NATHANIEL FOX PE-2022042259 FSS/ONAL ENGINE

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rg) Mittek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779301
P230812	LAY1	Lay-In Gable	2	1	Job Reference (optional	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 1233 DI: POINTER Industries, Inc. Ved Nov 1 1233 DI: POINTER INAKU2wMSycbzzxFil-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J 22 OFF



Scale	_ ^	1.52	6
Scale	=	1:52.	0

		1			1							1	
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	0.81	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 51 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3		3) 4) 5) 6) 7)	Gable requir Gable studs This truss ha chord live lo All bearings	e 1.5x4 MT20 u res continuous l spaced at 0-0- as been design ad nonconcurre are assumed to	bottom chor 0 oc. ed for a 10. ent with any	d bearing.) psf bottom other live loa						
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or 8)		hanical connec								
BOT CHORD	Rigid ceiling directly bracing.	applied or 9-1-12 o	с	9, 132 lb upl	e capable of wit lift at joint 5, 13	9 lb uplift at	joint 8, 139 l						
REACTIONS	8=7-9-14 Max Horiz 9=-330 (L Max Uplift 5=-132 (L 7=-139 (L Max Grav 5=258 (L 7=206 (L 9=115 (L	LC 11), 6=-135 (LC 1 LC 13), 8=-139 (LC 1 LC 10) C 8), 6=205 (LC 20) C 20), 8=215 (LC 20 C 9)	9) 13), L0 ,)),	This truss is International	7 and 135 lb u designed in ac I Residential Cc nd referenced s Standard	cordance worde sections	ith the 2018 R502.11.1 a	and					
FORCES	(lb) - Maximum Com Tension												
TOP CHORD	1-9=-195/163, 1-2=- 3-4=-473/473, 4-5=-		353,										
BOT CHORD	8-9=-422/435, 7-8=- 5-6=-422/435	422/435, 6-7=-422/4	435,										m
,	2-8=-216/196, 3-7=- CE 7-16; Vult=115mph	(3-second gust)	190								B	TATE OF	10x VA

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2R) 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
- 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.



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
000	11400		Quy	,	Robi Osage Lot II	DEVELOPMENT SERVICES I61779302
P230812	LAY2	Lay-In Gable	2	1	Job Reference (optional	
Premier Building Supply (Spring	hill, KS), Spring Hills, KS - 66083,				30 2023 MiTek Industries, Inc. 70Hq3NSqPqnL8w3uITXbGKV	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 4 133/10 6 ID:hqFJuF70xwCBQJPjyVEyNfzxFft-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV/rCDoi7J4zJ5ff



Scale = 1:104.1 Plate Offsets (X, Y): [6:0-2-8,0-3-0]

Plate Offsets ((X, Y): [6:0	-2-8,0-3-0]												
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 IRC2	018/TPI2014	CSI TC BC WB Matrix-S	0.21 0.03 0.23	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 15	n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 232 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	24-2,23-3 Structura 5-2-3 oc Rigid cei bracing.	lo.2 lo.2 *Excep 3,22-4,21-5 al wood she purlins, ex ling directly	2x4 SPF No.3 athing directly applie cept end verticals. applied or 6-0-0 oc	ed or	TOP CHORD BOT CHORD WEBS	1-2=-1319/1039, 2 3-4=-1058/833, 4- 7-8=-528/420, 8-9 10-11=-121/100, 1 1-24=0/0, 23-24=(20-21=0/0, 19-20= 17-18=-6/23, 16-1 14-15=-30/28, 13- 2-24=-177/152, 3- 4-22=-180/157, 5- 6-20=-186/162, 7- 8-17=-184/161, 9-	731, 5-7=-796 15, 9-10=-261 2/15, 12-13=- 3=0/0, 21-22= -19=-1/0, 0, 15-16=-29/2 4 /163, /158, /159,	/212, -21/20 =0/0,	be 13 up joi 14 up 9) Be su 10) Th Int	aring pla , 321 lb u lift at join nt 21, 13 0 lb uplifi lift at join eveled pla rface with is truss is ernationa	te capa uplift at at 23, 1: 7 Ib up t at join at 15 ar ate or s h truss s desig al Resid	able of withstandi joint 1, 138 lb up 34 lb uplift at joint 34 lb uplift at joint 17, 135 lb uplift ad 90 lb uplift at jo shim required to p chord at joint(s) ned in accordance	rovide full bearing 13, 17, 16, 15, 14. ce with the 2018 ions R502.11.1 and	
5 5 <i>1</i> 1					 Vasd=91mp Ke=1.00; C exterior zor Interior (1) exposed; e and forces DOL=1.60 p Truss desii only. For s see Standa or consult c All plates and Gable requi Gable studs This truss h chord live lo 	10-15=-194/169, 1 E 7-16; Vult=115m, oh; TCDL=6.0psf; E at. II; Exp C; Enclor e and C-C Exterior 5-4-1 to 20-8-6 zon and vertical left expo & MWFRS for reac plate grip DOL=1.6; gned for wind loads tuds exposed to wii rd Industry Gable E qualified building de re 1.5x4 MT20 unle ires continuous bot s spaced at 0-0-0 o has been designed bad nonconcurrent a are assumed to be 565 psi.	ph (3-see 3CDL=6. sed; MW r(2E) 0-4 e; cantili cosed;C-0 tions sho 0 s in the p nd (norm End Deta signer a sss other tom choi sc. for a 10. with any	cond gust) Opsf; h=35ft; /FRS (envelo -1 to 5-4-1, ever left and r C for member own; Lumber lane of the trr al to the face iils as applica s per ANSI/TI wise indicate rd bearing. 0 psf bottom other live loa	right s), ble, PI 1. d.	LOAD	CASE(S		NATHA	X BER JICK
FORCES	(lb) - Max Tension	ximum Corr	pression/Maximum									Ø	RESSIONA	LENGI

November 2,2023

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 161779303
P230812	V1	Valley	2	1	Job Reference (optional	
Premier Building Supply	v (Springhill, KS), Spring Hills, KS	- 66083,			30 2023 MiTek Industries, Inc. \ 0Ha3NSaPapl 8w3uITXbGKW	

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Ved Nov 1 1233 106/20

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0-11-4 D-3-4





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Scale = 1:16.9

Plate Offsets (X, Y): [2:Edge,0-1-14]

Plate Offsets (X, Y): [2:Edge,0-1-14										
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/TPI20 ⁷	CSI TC BC WB 14 Matrix-P	0.06 0.03 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in (I n/a n/a 0.00	- n	efl L/d /a 999 /a 999 /a n/a	PLATES MT20 Weight: 6 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-9-11 oc purlins, e Rigid ceiling directly bracing. (size) 1=2-8-15, Max Horiz 1=29 (LC Max Uplift 1=-15 (LC Max Grav 1=79 (LC (lb) - Maximum Com Tension 1-2=-40/25, 2-3=-62.	xcept end verticals. applied or 10-0-0 or 3=2-8-15 9) C 8), 3=-20 (LC 12) 1), 3=79 (LC 1) opression/Maximum	7) Provid bearin 1 and 8) This tr Interna ed or R802. LOAD CA	e mechanical connect g plate capable of with 20 lb uplift at joint 3. uss is designed in acc ational Residential Co 10.2 and referenced s SE(S) Standard	hstanding 1 cordance wi de sections	5 lb uplift at joi ith the 2018 : R502.11.1 an	int				
Vasd=91m Ke=1.00; (exterior zo and right e exposed;C reactions s DOL=1.60 2) Truss des only. For see Stand or consult 3) Gable requ 4) Gable stuc 5) This truss chord live	signed for wind loads ir studs exposed to wind ard Industry Gable En- qualified building desig uires continuous bottoo ds spaced at 4-0-0 oc. has been designed for load nonconcurrent wi gs are assumed to be \$	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l left and right orces & MWFRS for 1.60 plate grip n the plane of the tru l (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom ith any other live load	left), ble, PI 1.							STATE OF NATH OF PE-2027	ANIEL DX DX DX DX DX DX DX DX DX DX DX DX DX

November 2,2023



							RELEASE FOR CONSTRUCTION
1	Job	Truss	Truss Type	Qtv	Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
	505	11055	Truss Type	Qty	i iy	KUUI - Osage LUI / /	DEVELOPMENT SERVICES 161779304
	P230812	V2	Valley	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
	Premier Building Supply (Springh	hill, KS), Spring Hills, KS - 66083,	Run: 8.63 S Ai ID:vXDyld3MSi	ug 30 2023 Print: 8. mhkXsev2E4pqAzx	630 S Aug 3 F0e-RfC?Ps	0 2023 MiTek Industries, Inc.	Ved Nov 1 193/106/2023



6-0-0

Scale = 1:23.3

Loading	(psf)	Spacing	3-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO		WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018	8/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2-0-0 oc purlins (6-0 verticals (Switched from shee Rigid ceiling directly	ted: Spacing > 2-8-0). 8)	 capacity of 565 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 17 lb uplift at joint 5, 20 lb uplift at joint 6 and 124 lb uplift at joint 7. 									
	bracing.	9) Graphical purlin representation does not depict the size											
	7=6-11-9 Max Horiz 1=143 (LC Max Uplift 1=-15 (LC (LC 12), 7 Max Grav 1=175 (LC	, 5=-17 (LC 9), 6= =-124 (LC 12)	-20 LC		ation of the purlin a I.			size					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-293/154, 2-3=- 4-5=-68/106	114/84, 3-4=-81/81,											
BOT CHORD WEBS	1-7=-62/83, 6-7=-62 3-6=-58/79, 2-7=-34	,											
Vasd=91m Ke=1.00; 0	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Corner(3E	DL=6.0psf; h=35ft; d; MWFRS (envelope	e)								ł	STATE OF D	MISSOUR

- vasu=9 mpn, TCDL=0.0psi, DEDL=0.0psi, TESOI,
 Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 1-2-1 to 6-2-1,
 Exterior(2N) 6-2-1 to 6-11-1 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
- 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 77	
P230812	V3	Valley	2	1	Job Reference (optional	DEVELOPMENT SERVICES 161779305 LEE'S SUMMIT, MISSOURI
Premier Building Supply (Springl	nill, KS), Spring Hills, KS - 66083,				0 2023 MiTek Industries, Inc. 170Hq3NSgPqnL8w3uITXbGK	

3-0-0







1.5x4 🛚

1.5x4 🛚



3-0-0

Scale = 1:17.4	Scale	= '	1:17	′.4
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Scale = 1:17.4											
TCLL (roof) 2 TCDL 1 BCLL	sf)Spacing6.0Plate Grip DOL0.0Lumber DOL0.0Rep Stress Incr0.0Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.09 0.05 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 8 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2 BRACING TOP CHORD Structural woo 3-2-1 oc purlin BOT CHORD Rigid ceiling d bracing. REACTIONS (size) 1=3 Max Horiz 1=3 Max Uplift 1=- Max Grav 1=9	d sheathing directly appli s, except end verticals. rectly applied or 10-0-0 c 1-5, 3=3-1-5 4 (LC 9) 8 (LC 8), 3=-24 (LC 12) 9 (LC 1), 3=96 (LC 1) Compression/Maximum 3=-74/98 5 mph (3-second gust) f; BCDL=6.0psf; h=35ft; clossed; MWFRS (envelo cior(2E) zone; cantilever tical left and right and forces & MWFRS fo OL=1.60 plate grip ads in the plane of the tr wind (normal to the face le End Details as applica designer as per ANSI/T bottom chord bearing. 0 oc. ed for a 10.0 psf bottom int with any other live loa o be SP No.2 crushing tion (by others) of truss	8) This truss Internation R802.10.2 LOAD CASE(ied or bc pe) left r uss s), ible, PI 1. ads.	is designed in accornal Residential Code and referenced star	sections	8 R502.11.1 a	ind				STATE OF STATE OF NATH FC PE-2022	MISSOUTH ANIEL X MARCHAR MARCH





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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%
LUMBER				7	All bearings	are assumed	to be SP No.:	2 crushing						
TOP CHORD	2x4 SP No.2				capacity of 5	65 psi.								
BOT CHORD	2x4 SP No.2			8		hanical conne								
OTHERS	2x3 SPF No.2	2				e capable of w			oint					
BRACING					· ·	at joint 3 and								
TOP CHORD	Structural wo 6-0-0 oc purli		athing directly applie	ed or 9		designed in a Residential C			ind					
BOT CHORD			applied or 10-0-0 o		R802.10.2 a OAD CASE(S)	nd referenced Standard	standard AN	ISI/TPI 1.						
l	Max Horiz 1= Max Uplift 1= 4= Max Grav 1=	-104 (LC -44 (LC -16 (LC	12), 3=-56 (LC 13)	·										
FORCES	(lb) - Maximu Tension	m Comp	pression/Maximum											
TOP CHORD	1-2=-187/91,	2-3=-18	34/101											
BOT CHORD	1-4=-24/88, 3	8-4=-24/8	88											
WEBS	2-4=-218/106	5												
NOTES														
1) Unbalance this design	•		been considered fo	r										

- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.





							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Roof - Osage Lot 77	
P230812	V5	Valley		2	1	Job Reference (optional	DEVELOPMENT SERVICES 161779307 LEE'S SUMMIT, MISSOURI
Premier Building Supply (Spring	•	Run: 8.63 S Aug 30	2023 Print: 8	3.630 S Aug		Ved Nov 4 193/106/2923 VrCDoi7J4zJ 591	
			ID.NyO2F2CT MinjGN	SJ_FSDUy2	r_i-ric?rs	Brondsingedurowani yadak	
		1	3-0-0		1	5-8-4	

3-0-0

2-8-4



6-0-0

Casla		4.07
Scale	=	1:27

Scale = 1:27													
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-P	0.18 0.07 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	Max Horiz 1=-62 (LC Max Uplift 1=-34 (LC Max Grav 1=144 (LC (LC 1) (Ib) - Maximum Com Tension	applied or 10-0-0 or 3=6-0-13, 4=6-0-13 8) 12), 3=-41 (LC 13) C 1), 3=144 (LC 1), 4 pression/Maximum		capacity of 8 Provide med bearing plate 1 and 41 lb This truss is International	chanical connect e capable of with uplift at joint 3. designed in ac Residential Co nd referenced s	ction (by oth hstanding 3 cordance w ode sections	ers) of truss 34 lb uplift at ith the 2018 5 R502.11.1 a	joint					
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance	1-2=-102/66, 2-3=-96 1-4=-14/49, 3-4=-14/ 2-4=-123/77 ed roof live loads have	49	r										

this design. Wind: ASCE 7-16; Vult=115mph (3-second gust)

2-6-9

2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.

Gable requires continuous bottom chord bearing. 4)

5) Gable studs spaced at 4-0-0 oc.

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

 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 to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property 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/TPH1 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)





							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qtv		Plv	Roof - Osage Lot 77	AS NOTED FOR PLAN REVIEW
300	Truss	Truss Type		y	гіу	Rool - Osage Lot 77	DEVELOPMENT SERVICES 161779308
P230812	V6	Valley	2		1	Job Reference (optional	
Premier Building Supply	y (Springhill, KS), Spring Hills, KS	66083,	Run: 8.63 S Aug 30 2023	Print: 8.	630 S Aug 3	0 2023 MiTek Industries, Inc.	

ng Supply (Springhill, KS), Spring H IIIIS, KS - 66083, INGIN. 0.09 S AUG 30 2023 PTINT: 8.630 S AUG 30 2023 MITEK Industries, Inc. Ved Nov 41 423/48 6/26 20 10:TmPQfbvifSrAmDG7y9oS_DzxF_G-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoi794299 f







2-0-0

Scale = 1:23.2

Plate Offsets (X, Y): [2:0-2-0,Edge]

	,,											
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/TPI20 ⁻	CSI TC BC WB 14 Matrix-P	0.02 0.02 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 6 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m Ke=1.00; (exterior zo and right e exposed; (reactions s DOL=1.60 3) Truss des only. For s see Stand, or consult 4) Gable requ 5) Gable stud	2x4 SP No.2 2x4 SP No.2 Structural wood she 2-6-3 oc purlins. Rigid ceiling directly bracing. (size) 1=2-5-10, Max Horiz 1=-20 (LC Max Uplift 1=-7 (LC Max Grav 1=60 (LC (lb) - Maximum Com Tension 1-2=-46/34, 2-3=-46 1-3=-6/26 ad roof live loads have b CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I shown; Lumber DOL=	Code athing directly applie applied or 10-0-0 or 3=2-5-10 3), 3=-7 (LC 12) 1), 3=60 (LC 1) pression/Maximum /36 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip n the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing.	8) Provid bearin and 7 9) This tr Interna R802. LOAD CA	Id Matrix-P e mechanical connection of withs plate capable of withs the uplift at joint 3. uss is designed in accoational Residential Code 10.2 and referenced states SE(S) Standard	standing 7 ordance w e sections	' lb uplift at jo ith the 2018 s R502.11.1 a	int 1				STATE OF STATE OF NATHLING	MISSOLANIEL DX BER
	load nonconcurrent wi gs are assumed to be \$ f 565 psi.		ls.							Y	ESSION/	IL ENGLAS

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 or 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)



November 2,2023

