

Model:	MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 on: Osage
Address: 3734/3736 SW Knoxville Ct City: Lee's Summit State: M	0
General Truss Engineering Criteria & Design Load 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	Floor Load: N/A psf
Mean Roof Height (feet): 35	Exposure Category: C

No. Seal# Truss Name Date 1 I65691315 A6 5/20/24

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

Truss Design Engineer's Name: Pace, Adam

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

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.



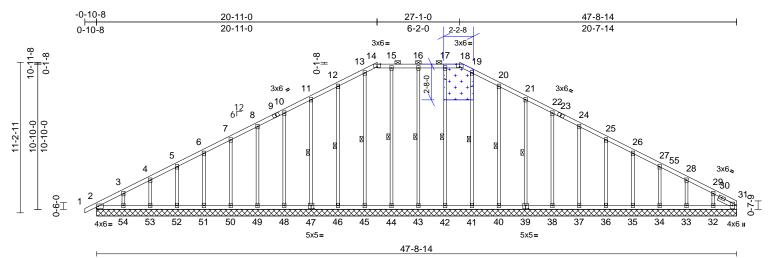
Pace, Adam

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 82	
P240069-02	A6	Piggyback Base Supported Gable	2	1	Job Reference (optional)	165691315

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon May 20 10:32:57 ID:JbPUB4NmDf0vUSJtFFIELayGxJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

BREAK IN MEMBERS 17-42 AND 19-41 LOCATED 0-10-0 FROM TOP CHORD.



ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1) TO ONE FACE OF TRUSS WITH (0.113" X 2") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 2" O.C. INTO EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Scale = 1:85.9

Loading		(nof)	Specing	200		CSI		DEFL	in	(100)	l/defl	I /d	PLATES	GRIP
TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		TC	0.13		in n/a	(loc)	n/a	L/d 999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	n/a	-	n/a	999	101120	244/100
BCLL		0.0	Rep Stress Incr	YES		WB	0.18	· · ·	0.02	31	n/a	n/a		
BCDL		10.0	Code	IRC2018/TPI201	4	Matrix-S							Weight: 267 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS	Structura 6-0-0 oc 2-0-0 oc Rigid ceil bracing. 1 Row at	o.2 No.2 SP No.2 I wood she purlins, exc purlins (6-0 ing directly midpt	athing directly applied cept -0 max.): 14-18. applied or 10-0-0 oc 16-43, 17-42, 19-41, 20-40, 21-39, 15-44, 13-45, 12-46, 11-47		(Ib	32 34 36 38 40 42 44 46 48 50 52 54	178 (LC 21), : =179 (LC 26), =180 (LC 26), =180 (LC 26), =180 (LC 26), =180 (LC 1), =177 (LC 26), =177 (LC 25), =177 (LC 25), =180 (LC 1), : =180 (LC 1), : =180 (LC 1), : =181 (LC 25) m Compressi	33=182 (LC 35=180 (LC 37=180 (LC 39=180 (LC 41=174 (LC 2 43=183 (LC 45=176 (LC 45=176 (LC 49=180 (LC 2 49=180 (LC 2 53=179 (LC 2	1), 1), 1), 26), 26), 26), 22), 25), 1), 25), 25),	,		19-41 21-39 24-37 26-35 28-33 15-44 12-46 10-48 6-51= 3-54= d roof li	-140/97, 5-52=-1 -138/171	140/112, 140/96, 140/97, 139/106, '=-137/191, 136/8,
	Max Horiz	$\begin{array}{c} 32 = 47 \cdot 8 \cdot \\ 34 = 47 \cdot 8 \cdot \\ 36 = 47 \cdot 8 \cdot \\ 40 = 47 \cdot 8 \cdot \\ 40 = 47 \cdot 8 \cdot \\ 42 = 47 \cdot 8 \cdot \\ 42 = 47 \cdot 8 \cdot \\ 46 = 47 \cdot 8 \cdot \\ 50 = 47 \cdot 8 \cdot \\ 50 = 47 \cdot 8 \cdot \\ 50 = 47 \cdot 8 \cdot \\ 52 = 47 \cdot 8 \cdot \\ 53 = -61 (L) \\ 33 = -61 (L) \\ 37 = -61 (L) \\ 47 = -61 (L) \\ 49 = -61 (L) \\ 51 = -61 (L) \\ 51 = -61 (L) \end{array}$		3), 3), 3), 3), 3), 2), 2), 2),	RD 1-3 4-4 7-4 11 13 15 15 17 19 21 24 27 29 20 2-5 50 48 45 43 41 38 36 34	2=0/17, 2-3 5=-181/97, 8=-84/162, -12=-106/2 -14=-126/3 -16=-118/3 -16=-118/3 -16=-118/3 -16=-118/3 -16=-118/3 -16=-118/3 -20=-127/3 -20=-	3=-295/92, 3-4 5-6=-136/110 8-10=-71/190 (287, 12-13=-11 342, 16-17=-1 342, 16-17=-1 344, 14-15=-1 344, 22-24=-69 344, 22-24=-69 35, 53-54=-59/2 35, 51-52=-59/2 35, 51-52=-59/2 35, 40-41=-59 35, 40-41=-59 35, 442=-59/2 35, 442=-59/2 35, 442=-59/2 35, 442=-59/2 35, 442=-59/2 35, 37-38=-59/2 35, 33-34=-59/2 31, 32=-59/2 31, 32=-59), 6-7=-110/1.), 10-11=-88/ 27/347, 19/341, 18/342, 26/341, 18/342, 26/341, 06/287, (180, 172, 26-27=-7 5/43, 1/25, 1/25	234,				STATE OF I ADA PAC PAC PAC PAC PAC PAC PAC PAC PAC PA	De t

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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)



Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 82	
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

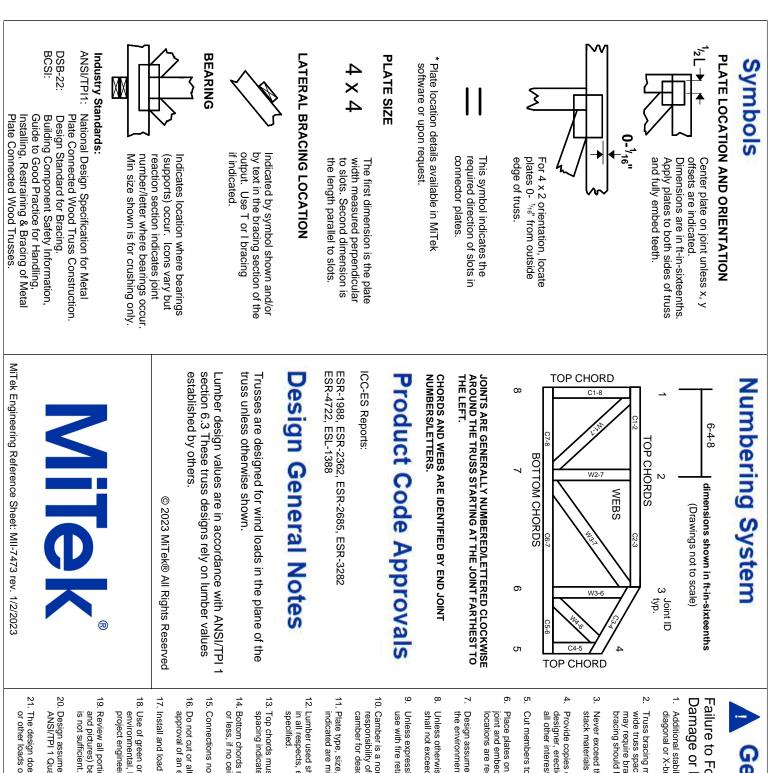
- 2) Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 20-11-0, Corner(3R) 20-11-0 to 26-0-0, Exterior(2N) 26-0-0 to 27-1-0, Corner(3R) 27-1-0 to 32-0-0, Exterior(2N) 32-0-0 to 47-8-14 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 3) 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.
- Provide adequate drainage to prevent water ponding. 4)
- All plates are 3x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing. 6)
- 7) Gable studs spaced at 2-0-0 oc.
- 8)
- 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 9)
- capacity of 565 psi. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 58 lb uplift at joint 43, 9 lb uplift at joint 42, 74 lb uplift at joint 40, 60 lb uplift at joint 39, 61 lb uplift at joint 38, 61 lb uplift at joint 37, 61 lb uplift at joint 36, 61 lb uplift at joint 35, 62 lb uplift at joint 34, 59 lb uplift at joint 33, 103 lb uplift at joint 32, 12 lb uplift at joint 44, 71 lb uplift at joint 46, 61 lb uplift at joint 47, 61 lb uplift at joint 48, 61 lb uplift at joint 49, 61 lb uplift at joint 50, 61 lb uplift at joint 51, 61 lb uplift at joint 52, 61 lb uplift at joint 53 and 87 lb uplift at joint 54.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beign value of use only wan win exec connectors, this design is based only upon parameters shown, and is for an individual building domponent, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality** Criteria, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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