

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0124-0299

Weaver/Lot 39 West Preserve/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I66709931 thru I66709932

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

North Carolina COA: C-0844



July 9,2024

Pace, Adam

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.

ob	Truss	Truss Type			Qty	Ply	Wea	ver/Lot 39 West Pres	erve/Harnett		
0124-0299	A2GEX	GABLE			1		1 lob	Reference (option	al)		166709932
Comtech, Inc., Fayetteville	, NC 28309	I			#BBB!!		8.43	30 s Jan 6 2022 MiTe	ek Industries, Inc. Tue J	ul 9 15:29:49 2024	Page 1
-0 ₁ 10-8	26-4	l-8		ID:Jh9B) 34-4-8	yfjRPPU?n	nMRDxzG 43-4-8		3p-9QNOxQ6bFml 51-4-8	?5MdnOmM3TG?_p' 59-10-8	/yyImb2sT_FLfyz 60-9 _r 0	zwK?
0-10-8	25-6			7-11-15	-	9-0-0		8-0-0	8-6-0	0-10-8	
REPAIR: TRUSS WAS	INSTALLED BACKWARDS AS S		6x6 =	ATTA	CH WITH (WS SPACE	(0.131" X 3 ED @ 2" O	") NAILS		CE OF TRUSS CENTE /ING NAIL SCHEDULI ISTANCE.		
		6.00 12	9		6x6 10	S =		82			
444 4x6 =	4x6 = 5 42"x30"3 42"x30"3 444 42 INSTALL 2 X 4 SPF/DF/SP	4x6 =	32" 8XXXXXX 39 38 36 ₃₇ 3	4x6 =	31 30 4x4 =	3x6	3x6	4x4 \ 11	13 83 4x6 21 21 20 19 18 4x6 21 ATHING 32/16 EXP 1	4x6 =	135.3
	CUT TO FIT TIGHT.	NO.2	+ + + 2	ONE FACE OF T 2 X 3'S - 2 ROWS	RUSS WIT S, 2 X 4'S -	H (0.113" 3 ROWS,	X 2") NÀI 2 X 6'S A	LS PER THE FOLL	OWING NAIL SCHEE OWS: SPACED @ 2"	DULE:	
-0 ₁ 10-8 0-10-8	26-4			34-4-8		4	7-1-8		59-10-8	60-9-0 0-10-8	
0-10-8 LOADING (psf) TCLL 20.0 TCDL 10.0	Plate Grip DOL	2-0-0 1.15 1.15	CSI. TC 0.58 BC 0.63	7-11-15 DEF Vert	(LL) -(in (loc).30 40-4).48 40-4	ź >70	1 360	12-9-0 PLATES MT20	GRIP 244/190	
BCLL 0.0 * BCDL 10.0		YES	WB 0.67 Matrix-S	Horz	z(CT) (2 n/	a n/a	Weight: 656 I	b FT = 20%	
BOT CHORD 2x6 S WEBS 2x4 S 3-45,7	P No.1 P No.1 P No.2 *Except* 7-38: 2x4 SPF No.2 P No.2			TOP	CING- CHORD CHORD SS	2-0- Rigi	0 oc purl	ins (6-0-0 max.): directly applied o	ectly applied or 6-0- 9-10. r 6-0-0 oc bracing. 35, 10-30, 6-40, 11-	•	ept

REACTIONS. All bearings 37-4-0 except (jt=length) 2=4-3-8, 45=4-3-8, 46=4-3-8, 44=0-3-8, 37=0-3-8.

(lb) - Max Horz 2=265(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 45, 46, 17, 14 except 2=-329(LC 19), 35=-110(LC 9), 30=-234(LC 13), 36=-116(LC 23), 16=-195(LC 13), 22=-493(LC

13), 44=-478(LC 12), 37=-400(LC 12) Max Grav All reactions 250 lb or less at joint(s) 32, 33, 36, 46, 31, 29, 28, 27,

26, 24, 23, 21, 20, 19, 18, 17, 14 except 2=273(LC 12), 35=492(LC 22) $30{=}651(LC\ 24),\ 45{=}786(LC\ 25),\ 16{=}308(LC\ 1),\ 22{=}806(LC\ 1),\ 44{=}715(LC\ 19),$ 37=1005(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{--}671/1024,\ 3\text{-}4\text{--}504/123,\ 4\text{-}6\text{--}413/218,\ 6\text{-}7\text{--}228/298,\ 7\text{-}8\text{--}232/311,}$

8-9=-157/338, 9-10=-147/337, 10-11=-170/305, 13-14=-405/169

BOT CHORD 2-46=-722/403, 45-46=-722/403, 44-45=-16/423, 43-44=-16/423, 42-43=-17/442,

40-42=-17/442, 39-40=-17/442, 38-39=-18/448, 37-38=-86/303, 36-37=-86/303, 35-36=-86/303, 33-35=-88/302, 32-33=-88/302, 31-32=-88/302, 30-31=-88/302, 21-22=-11/257, 20-21=-11/257, 19-20=-11/257, 18-19=-11/257, 17-18=-11/257,

16-17=-11/257, 14-16=-11/257

WEBS 9-35=-370/130, 10-30=-496/211, 6-40=-98/254, 8-38=0/280, 7-39=-272/665,

 $3-43 = -106/581,\ 11-22 = -524/274,\ 13-22 = -446/348,\ 3-45 = -1978/723,\ 7-38 = -1431/490$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-10 to 5-4-12, Interior(1) 5-4-12 to 25-6-0, Exterior(2) 25-6-0 to 41-10-2, Interior(1) 41-10-2 to 59-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) N/A.
- 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.

9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

July 9,2024



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/TPII 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.sbcacomponents.com)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 39 West Preserve/Harnett	
J0124-0299	A2GEX	GABLE	1	1		166709932
00124 0233	/ LOEA	ONDEE	'	· '	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 9 15:29:50 2024 Page 2 ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-9QNOxQ6bFml?5MdnOmM3TG?_pVyyImb2sT_FLeyzwK?

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 45, 46, 17, 14 except (jt=lb) 2=329, 35=110, 30=234, 36=116, 16=195, 22=493, 44=478, 37=400.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

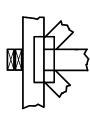
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

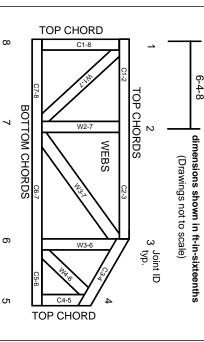
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2023 MiTek® All Rights Reserved

MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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 Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

- 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.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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.
- 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.
- 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.