

RE: 4133896 - LAMNECK - POOLE RES.

MITek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information: Customer Info: JEFF JOHNSON Project Name: Natalie Lamneck Model: Custom

Lot/Block: N/A Address: 929 SW Old Lake City Terrace, N/A

City: Columbia City State: FL

Name: Address: City: State: License #: Name Address and License # of Structural Engineer of Record, if there is one, for the building.

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: FBC2023/TPI2014 Wind Code: ASCE 7-22

Roof Load: 37.0 psf Floor Load: N/A psf Design Program: MITek 20/20 8.8 Wind Speed: 140 mph

This package includes 8 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T36051866	PB01	1/15/25
2	T36051867	PB01G	1/15/25
3	T36051868	T01	1/15/25
4	T36051869	T01G	1/15/25
5	T36051870	T02	1/15/25
6	T36051871	T03	1/15/25
7	T36051872	T04	1/15/25
8	T36051873	T05	1/15/25

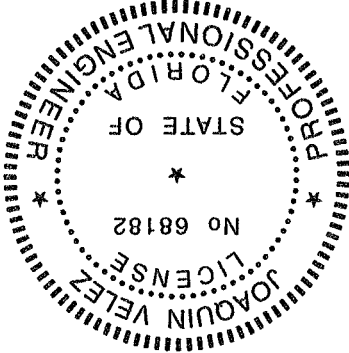


This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MITek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL. Truss Design Engineer's Name: Velez, Joaquin My license renewal date for the state of Florida is February 28, 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.

Joaquin Velez PE No. 68182
MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

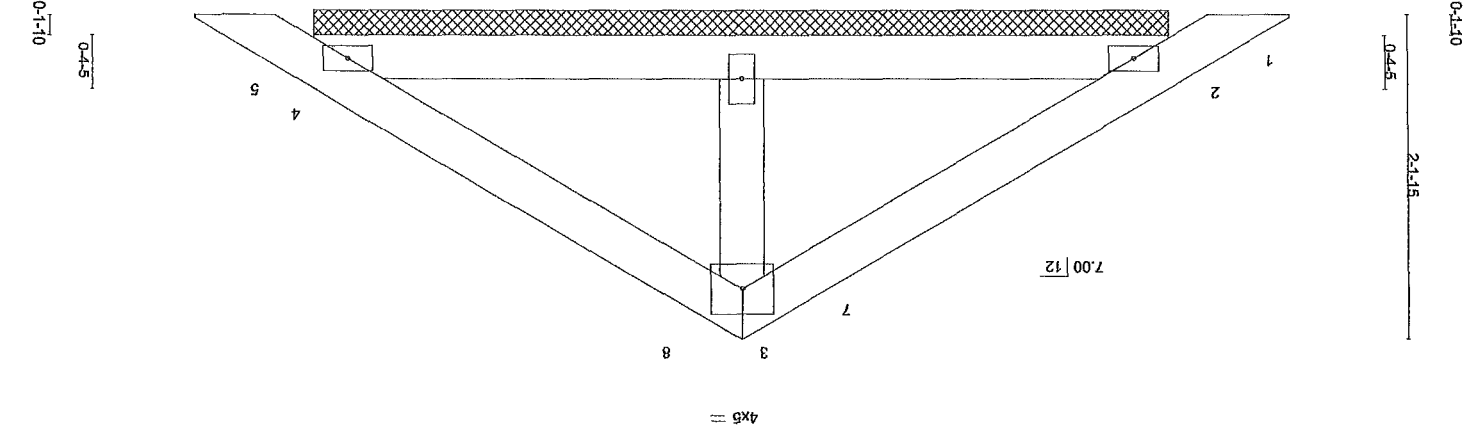


Job	Truss	Truss Type	Piggyback	Qty	26	LAMNECK - POOLE RES	1	Job Reference (optional)
4133896	PB01							

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MITEK Industries, Inc. Tue Jan 14 10:37:51 2025 Page 1

ID:NIQPKPkvij52Fda3AAd5P4zC2NR-7HNp3GElncDa5cyInqJ9M1dgoVwv7UJS2Lp5MzvT8U 3-8-8 7-5-0 3-8-8 3-8-8

Scale = 1 15.0



LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	l/d	L/d	PLATES	GRIP	Weight, 23 lb	FT = 20%
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) 0.00	5	n/r	120	MT20	244/190		
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) 0.01	5	n/r	120				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	4	n/a	n/a				
BCDL 10.0	Code FBC2023/TP12014	Matrix-P								

LUMBER-	TOP CHORD	2x4 SP No.2	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins	BOT CHORD	2x4 SP No.3	OTHERS	2x4 SP No.3

REACTIONS. (size) 2=5-8-11, 4=5-8-11, 6=5-8-11
Max Horiz 2=-73(LC 10)
Max Uplift 2=-95(LC 12), 4=-105(LC 13), 6=-56(LC 12)
Max Grav 2=142(LC 1), 4=146(LC 20), 6=199(LC 1)
FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown

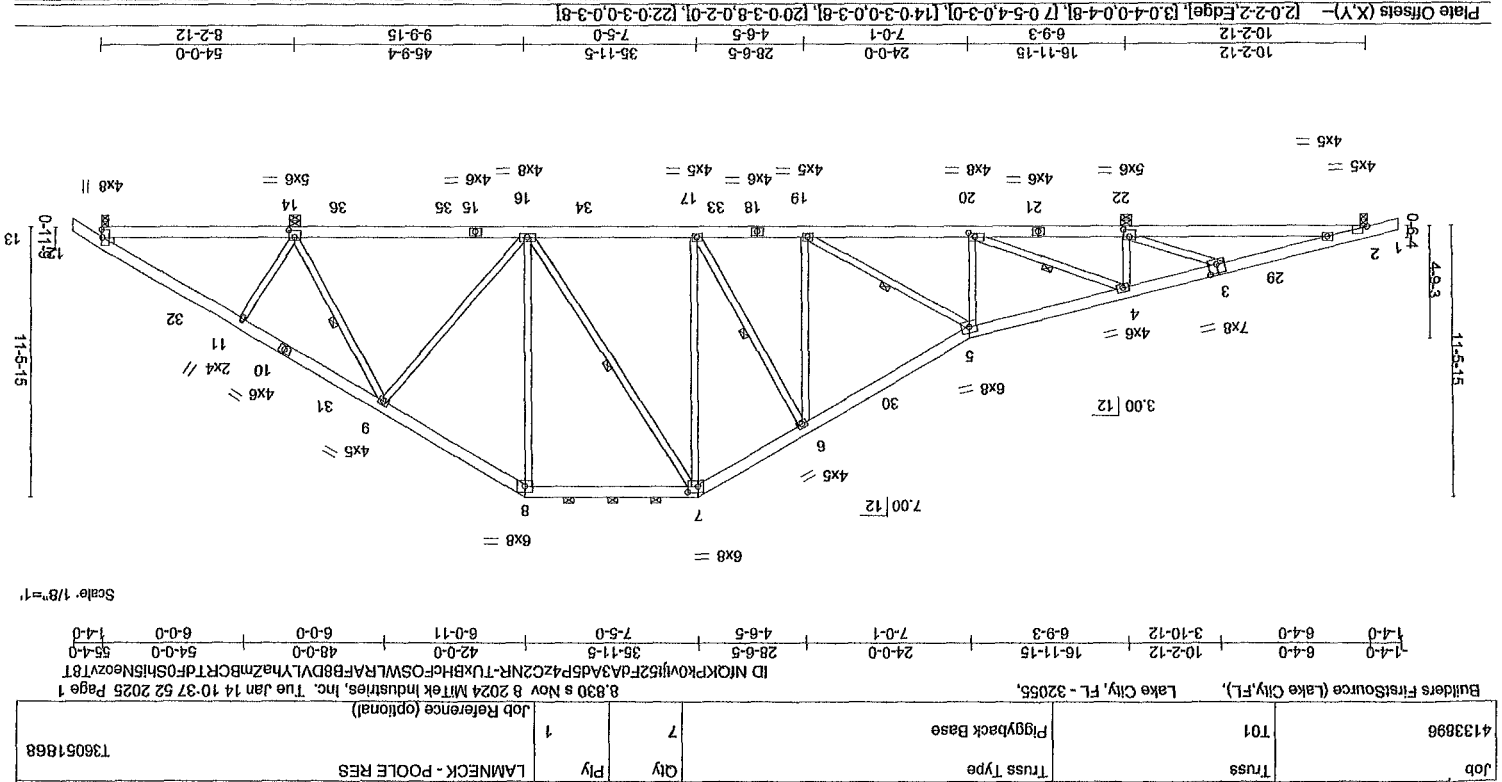
NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Valt=140mph (3-second gust) Vasd=108mph: TC DOL=4.2psf; BC DOL=3.0psf; h=20ft, Cal. II, Exp. C, Encl. GCP=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 3-8-8, Zone3 3-8-8 to 7-1-5 zone, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing
5) This truss has been designed for a live load of 20 psf 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
6) * This truss has been designed for a live load of 20 psf 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
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (l=lb) 4=105
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
Joaquin Velez PE No.68182
MITEK Inc DBA MITEK USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date: January 15, 2025

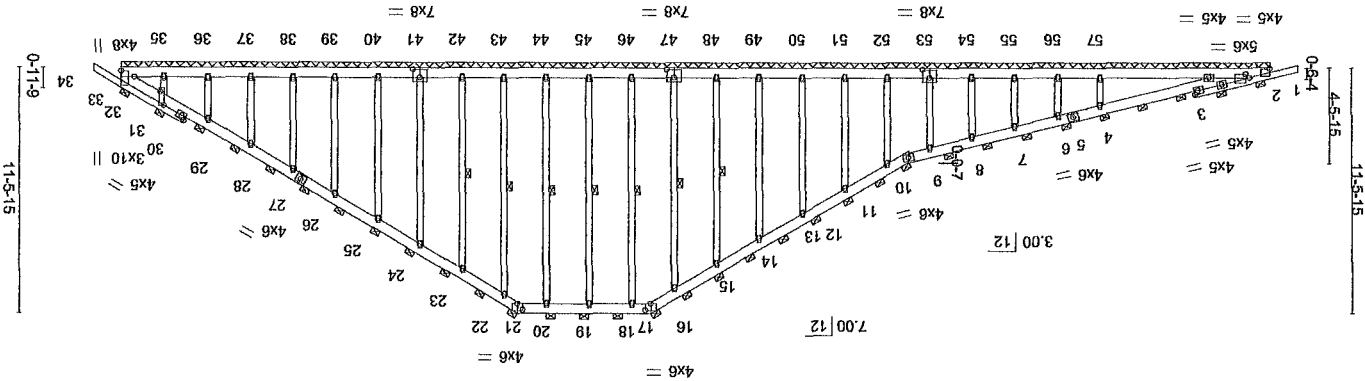
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 11/2/2023 BEFORE USE.
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCS1 Building Component Safety Information** available from the Structural Building Component Association (www.sbsaconnectionis.com)

MITEK®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
814.434.1288 / MITEK-US.com

TOP CHORD	BRACING- TOP CHORD	Structural wood sheathing directly applied or 5-5-1 cc purlins, except	2x6 SP No.2 BOT CHORD	WEBS 2x4 SP No.3 "Except"	WEDGE Right: 2x4 SP No.3 7-16, 2x4 SP No.2
BOT CHORD	WEBS	Rigid ceiling directly applied or 6-0-0 cc bracing	1 Row at midpt	4-20, 5-19, 6-17, 7-17, 7-16, 9-14	

[illegible]

Job	4133896	Truss	T01G	Truss Type	GABLE	Qty	2	1	Job Reference (optional)	8,830 S Nov 8 2024 Mitek Industries, Inc. Tue Jan 14 10:37:54 2025 Page 1	ID: NFOKPKV52F6Z3A5P4ZC2NRF33XHG0_7b9OZLXKVN0m77L09f5Jub0aThzvT8R	554-0	18-7-10	14-0	16-11-15	16-11-15	29-1-4	12-1-5	6-3-2	35-4-6	54-0-0	554-0	11-5-15	0-11-9	11-5-15	Scale = 1 105.4
LAMNECK - POOLE RES.		Ply																								
T36051669																										



LOADING (psf)	SPACING	CSL	DEFL	in (loc)	l/def	L/d	PLATES	GRIP	Weight 480 lb	FT = 20%
BCDL	10.0	Matrix-S	Horz(CT)	0 02	33	n/a	MT20	244/190		
BCLL	0.0	WB	Vert(CT)	-0 00	34	n/r				
TCCL	7.0	BC	0.21							
TCLL	20.0	TC	0.32	-0 00	34	n/r				
PLATE OFFSETS (X,Y) --	[2-Edge 0.4-14], [2-0.2-4.0-2-2], [17-0.3-0.0-3-12], [21-0.3-0.0-3-12], [32-0.7-8-Edge], [33-Edge 0.7-8], [41-0.4-0.0-4-8], [47-0.4-0.0-4-8], [53-0.4-0.0-4-8]									

LUMBER- TOP CHORD	2x6 SP No.2 *Except	1-3,31-34, 2x4 SP No.2	2x6 SP No.2	OTHERS	2x4 SP No.3	RECTIONS	(b) - Max Horiz 2=434(LC 11) All beams 54-0-0 Max Uplift All uplift 100 lb or less at joint(s) 54, 52, 47, 46, 45, 44, 33 except	2-245(LC 8), 57=398(LC 8), 56=162(LC 1), 55=122(LC 8), 53=113(LC 8), 51=129(LC 12), 50=126(LC 12), 49=129(LC 12), 48=137(LC 12), 42=132(LC 13), 41=133(LC 13), 40=125(LC 13), 39=126(LC 13), 38=126(LC 13), 37=128(LC 13), 36=108(LC 13), 35=167(LC 13) All reactions 250 lb or less at joint(s) 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 33 except 2=317(LC 1), 57=665(LC 1)	FORCES	(b) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown 2-4-563/122, 4-6=267/149, 6-7=268/149, 13-14=168/356, 14-15=147/483, 16-16=146/617, 17-18=153/639, 18-19=146/633, 19-20=146/633, 20-21=146/633, 21-22=150/618, 22-23=152/641, 23-24=121/514, 24-25=90/385, 25-26=80/262, 32-33=380/164 2-57=151/401, 51-52=151/401, 50-51=151/401, 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636-637=151/401, 637-638=151/40
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Job	Truss	T01G	GABLE	Truss Type	Oly	Ply	LAMNECK - POOLE RES.	1	Job Reference (optional)
4133896									

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

NOTES-

- (9) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- (10) * This truss has been designed for a live load of 20.0psf 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.
- (11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 54, 52, 47, 46, 45, 44, 33 except (if=b) 2=245, 57=398, 56=152, 55=122, 53=113, 51=129, 50=126, 49=129, 48=137, 42=132, 41=133, 40=126, 39=126, 37=128, 36=108, 35=167
- (12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 11/2023 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/TPI 1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BBSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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Job	Truss	T02	Piggyback Base	Oly	Ply	LAMNECK - POOLE RES	1	Job Reference (optional)
4133696				8				

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 a Nov 8 2024 Mitek Industries, Inc. Tue Jan 14 10:37 55 2025 Page 2
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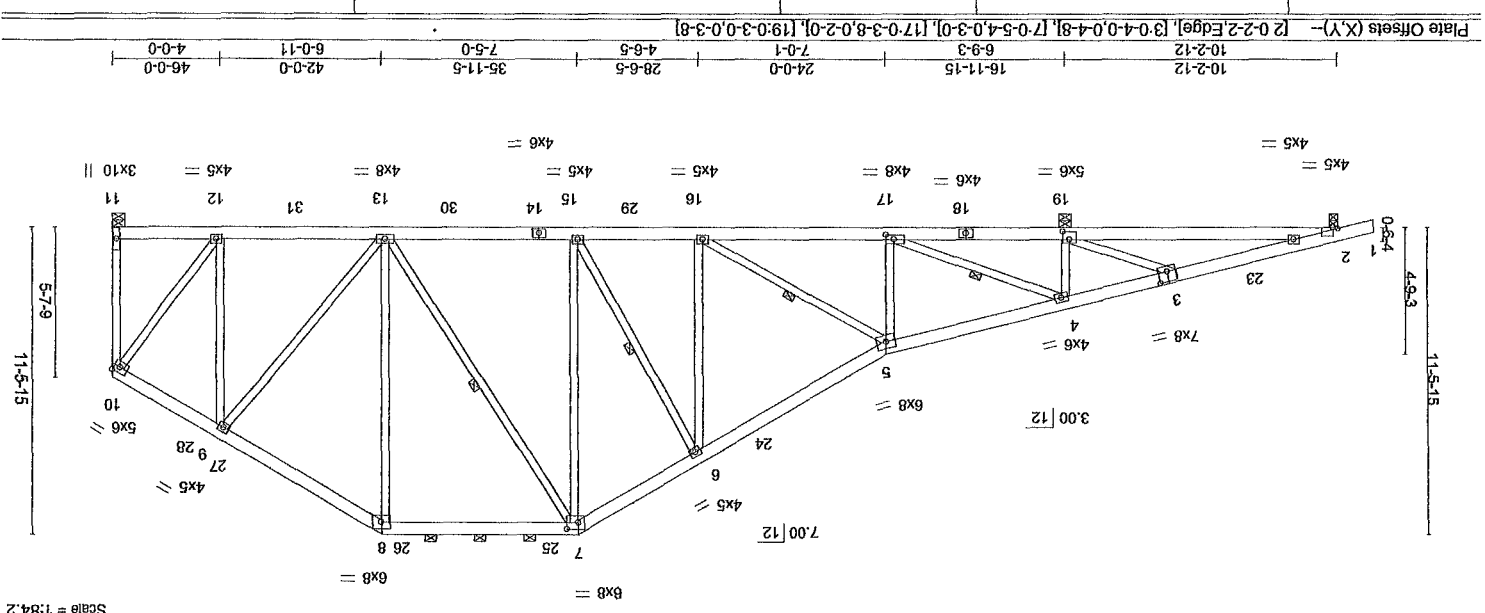
LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (p/l)
 Vert: 1-5=-54, 5-7=-54, 7-8=-54, 8-13=-54, 17-22=-20, 17-34=-80(F=-60), 25-34=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 11/2023 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 with end/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 1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiins.org) and **BCSI Building Component Safety Information** available from the **Structural Building Component Association (www.sbccomponents.com)**

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Job	4133896	Truss	T03	Piggyback Base	Qty	1	LAMNECK - POOLE RES.	Job Reference (optional)	1
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 6 Nov 8 2024 Mitek Industries, Inc. Tue Jan 14 10:37:55 2025 Page 1
 ID: N1C0KPK0W52F43A3A5P42C2NR-13dkvHGH101wjudvHJCBBJOTBq8uNlg1E7zvr8Q
 1-4-0 6-4-0 10-2-12 16-11-15 24-0-0 28-6-5 35-11-5 42-0-0 46-0-0
 1-4-0 6-4-0 10-2-12 16-11-15 24-0-0 28-6-5 35-11-5 42-0-0 46-0-0



LOADING (psf)	SPACING	CSL	DEFL	BRACING	WEBS	REACTIONS
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Horz(CT) 0.03	TOP CHORD	1 Row at midpt	(size) 2 = 0-3-8, 19 = 0-5-8, 11 = 0-5-8
BCLL 0.0	Rep Stress Incr YES	WB 0.85	Vert(CT) -0.16	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing	Max Gray 2 = 288(LC 25), 19 = 1039(LC 12), 11 = 504(LC 13)
TCCL 20.0	Lumber DOL 1.25	BC 0.38	Vert(LL) 0.10	TOP CHORD	except end and verticals, and 2-0-0 oc purlins (6-0-0 max.), 7-8	Max Horiz 2 = 480(LC 12)
TCCL 7.0	Plate Grip DOL 1.25	TC 0.76	In (loc) 11	WEBS	Structural wood sheathing directly applied or 5-4-8 oc purlins,	Max Uplift 2 = 387(LC 8), 19 = 1587(LC 12), 11 = 1444(LC 2)

FORCES	RECTIONS	WEBS	TOP CHORD	BOT CHORD	WEBS
(lb) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown	(size) 2 = 0-3-8, 19 = 0-5-8, 11 = 0-5-8	7-13 2x4 SP No.2	2x6 SP No.2	2x6 SP No.2	1 Row at midpt
TOP CHORD	Max Horiz 2 = 480(LC 12)	2x6 SP No.3 "Except"	2x6 SP No.2	2x6 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing
BOT CHORD	Max Uplift 2 = 387(LC 8), 19 = 1587(LC 12), 11 = 1444(LC 2)				except end and verticals, and 2-0-0 oc purlins (6-0-0 max.), 7-8

FORCES	RECTIONS	WEBS	TOP CHORD	BOT CHORD	WEBS
(lb) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown	(size) 2 = 0-3-8, 19 = 0-5-8, 11 = 0-5-8	7-13 2x4 SP No.2	2x6 SP No.2	2x6 SP No.2	1 Row at midpt
TOP CHORD	Max Horiz 2 = 480(LC 12)	2x6 SP No.3 "Except"	2x6 SP No.2	2x6 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing
BOT CHORD	Max Uplift 2 = 387(LC 8), 19 = 1587(LC 12), 11 = 1444(LC 2)				except end and verticals, and 2-0-0 oc purlins (6-0-0 max.), 7-8

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22: Vult=140mph (3-second gust) Vast=108mph, TCDL=4 2psf, BCDL=3 0psf; h=20ft. Cat II, Exp C, End.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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.
 - * This truss has been designed for a live load of 20.0psf 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
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 2, 1039 lb uplift at joint 19 and 504 lb uplift at joint 11
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
 Mitek Inc. DBA Mitek TSA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017

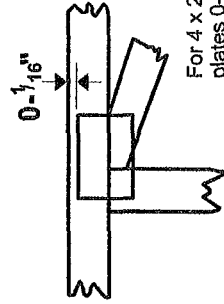
Date: January 15, 2025

33898	Truss	Truss Type	9	1	Job Reference
104		Plyback Base			

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 X 4

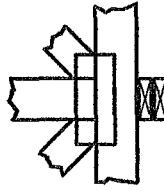
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

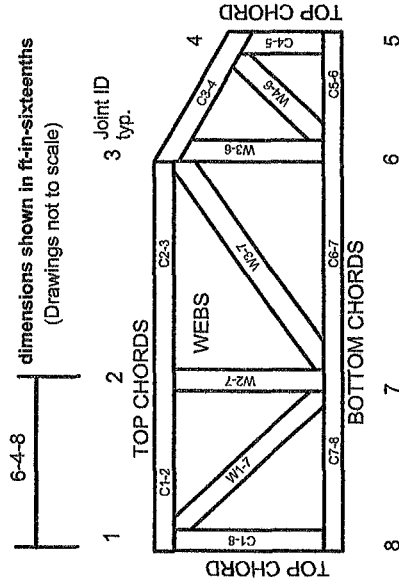


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur
Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1. National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI. Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

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.

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Mitek Engineering Reference Sheet MII-7473 rev. 1/2023

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
- 2 Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
- 3 Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4 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
- 6 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
- 7 Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1
- 8 Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10 Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection
- 11 Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12 Lumber used shall be of the species and size, and in all respects, equal to or better than that specified
- 13 Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- 16 Do not cut or alter truss member or plate without prior approval of an engineer
- 17 Install and load vertically unless indicated otherwise.
- 18 Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19 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