

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0420-1575 Puccio Job

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: E14632507 thru E14632508

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



July 17,2020

Strzyzewski, Marvin

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.

Job	Truss	Truss Type	Qty	Ply	Puccio Job
J0420-1575	F01	FLOOR	10	1	E14632507
00420 1070			'0		Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s May 6 2020 MiTek Industries, Inc. Fri Jul 17 07:59:48 2020 Page 1 ID:KBQ3iyZPnXx0faufF85w3DzSWa6-hwuhMgCT0L2ZzZL8byLwiiHFrxsSrm5rnl9AlmyxDcv

Structural wood sheathing directly applied or 5-2-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

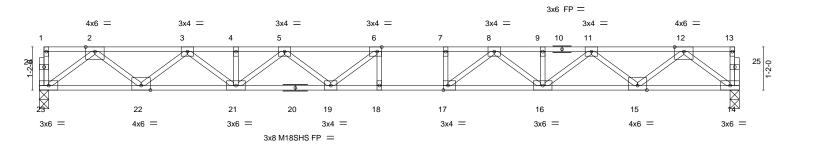
except end verticals.

0-1-8

H - 1-3-0

1-8-0

0-178 Scale = 1:31.1



			18-11-0 18-11-0				
Plate Offsets (X,Y) [6:0-1-8,Edge], [17:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.66 BC 0.68 WB 0.56 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.34 18 >654 480 Vert(CT) -0.47 18-19 >477 360 Horz(CT) 0.07 14 n/a n/a	PLATES GRIP MT20 244/190 M18SHS 244/190 Weight: 96 lb FT = 20%F, 11%E			

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) BOT CHORD

2x4 SP No.3(flat)

REACTIONS. (size) 23=0-3-0, 14=0-3-0

Max Grav 23=1020(LC 1), 14=1020(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2186/0, 3-4=-3670/0, 4-5=-3670/0, 5-6=-4413/0, 6-7=-4544/0, 7-8=-4544/0, TOP CHORD

8-9=-3675/0. 9-11=-3675/0. 11-12=-2187/0

BOT CHORD 22-23=0/1285, 21-22=0/3052, 19-21=0/4208, 18-19=0/4544, 17-18=0/4544, 16-17=0/4172, 15-16=0/3047. 14-15=0/1286

WEBS 2-23=-1609/0, 2-22=0/1173, 3-22=-1127/0, 3-21=0/790, 5-21=-686/0, 5-19=0/431,

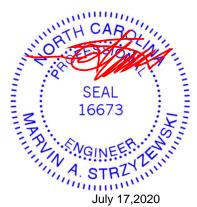
6-19=-506/186, 12-14=-1611/0, 12-15=0/1172, 11-15=-1120/0, 11-16=0/802,

8-16=-635/0, 8-17=0/751, 7-17=-278/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Puccio Job
J0420-1575	KW1	Floor Supported Gable	1	,	E14632508
JU420-1575	I VV I	Floor Supported Gable		'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s May 6 2020 MiTek Industries, Inc. Fri Jul 17 07:59:48 2020 Page 1 ID:KBQ3iyZPnXx0faufF85w3DzSWa6-hwuhMgCT0L2ZzZL8byLwiiHOsx0pruIrnl9AlmyxDcv

0-118

Scale = 1:31.4



3x6 FP = 3 5 6 8 9 10 11 12 14 13 15 16 34 32 26 25 24 22 21 31 30 29 28 27 23 20 19 18 17 3x6 FP = 3x4 = 3x4 =

18-11-0 18-11-0								
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.09	DEFL. Vert(LL)	in (loc) n/a -	I/defl	L/d 999	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a n/a	999	WII 20	244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT)	0.00 17	n/a	n/a	Weight: 79 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

2x4 SP No.1(flat) BOT CHORD except end verticals. 2x4 SP No.3(flat) **BOT CHORD WEBS** Rigid ceiling directly applied or 10-0-0 oc bracing.

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 18-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





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.

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



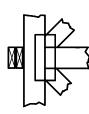
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



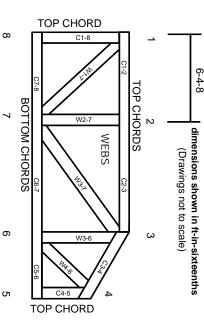
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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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A Milek Affiliate

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Iniury

- 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 Tor I 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.
- 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.

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Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- 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.
- 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
- 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.
- 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.