

Trenco

818 Soundside Rd Edenton, NC 27932

Re: J1124-6245

658 James Norris Road

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: I72699606 thru I72699606

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

North Carolina COA: C-0844



April 14,2025

Gilbert, Eric

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
 658 James Norris Road
 172699606

 J1124-6245
 F04
 Floor
 6
 1
 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Apr 11 08:47:59 2025 Page 1 ID:X?mEgsFPm0SgmXsYTEAHgcy9g4g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

H 1-3-0

2-5-8

1-7-4 0-1-8 Scale = 1:43.1

REPAIR: BREAK ON BOTTOM CHORD AT 6'-7" FROM LEFT END

APPLY 2 X 6 X 7"-9" SPF/DF/SP NO.2 SCAB TO EACH FACE OF TRUSS OVER PLYWOOD AS SHOWN. ATTACH WITH (1 ROW) OF (0.162"X3.5") NAILS SPACED 2 ON CENTER IN ALL ALIGNING MEMBERS, PLUS (2) NAILS INTO EACH COVERED WEB. USE 2" MEMBER END DISTANCE. IN ADDITION TO REQUIRED NAILING, CONSTRUCTION QUALITY ADHESIVE RECOMMENDED TO REDUCE POTENTIAL SQUEAKS.

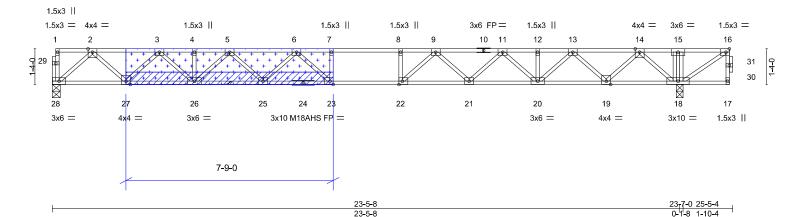


Plate Offsets (X,Y)--[16:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge] LOADING (psf) SPACING-1-4-0 CSI. DEFL. in (loc) /defl L/d **PLATES GRIP** -0.38 22-23 40.0 Plate Grip DOL 1.00 TC 0.64 Vert(LL) 480 244/190 **TCLL** >726 MT20 **TCDL** 10.0 Lumber DOL 1.00 BC 0.96 Vert(CT) -0.51 22-23 >549 360 M18AHS 186/179 **BCLL** Rep Stress Incr WB 0.49 0.09 0.0 NO Horz(CT) 18 n/a n/a Code IRC2015/TPI2014 **BCDL** 5.0 Matrix-S Weight: 134 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*

1-10: 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 28=0-3-8, 18=0-3-0

Max Grav 28=833(LC 3), 18=1750(LC 1)

BRACING-TOP CHORD

OP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 19-20,18-19.
ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1) TO

EACH SIDE OF TRUSS WITH ONE ROW OF (0.131" X 2.5") NAILS SPACED 2" O.C. FROM EACH FACE INTO EACH COVERED TRUSS MEMBER. IN AREAS WHERE SCAB IS STACKUP WITH PLYWOOD, USE ONE ROW OF (0.162X3.5") NAILS SPACED 2" O.C. IN ADDITION TO REQUIRED NAILING, CONSTRUCTION QUALITY ADHESIVE RECOMMENDED TO REDUCE POTENTIAL SQUEAKS.

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

TOP CHORD 2-3=-1587/0, 3-4=-2769/0, 4-5=-2769/0, 5-6=-3517/0, 6-7=-3913/0, 7-8=-3913/0,

8-9=-3913/0, 9-11=-3423/0, 11-12=-2621/120, 12-13=-2621/120, 13-14=-1378/579,

14-15=0/1142, 15-16=0/1142

BOT CHORD 27-28=0/912, 26-27=0/2242, 25-26=0/3232, 23-25=0/3780, 22-23=0/3913, 21-22=0/3720,

20-21=0/3113, 19-20=-337/2064, 18-19=-836/677

WEBS 2-28=-1213/0, 2-27=0/939, 3-27=-911/0, 3-26=0/716, 5-26=-629/0, 5-25=0/396,

6-25=-371/2, 6-23=-307/508, 7-23=-264/117, 14-18=-1321/0, 14-19=0/1039,

 $13-19 = -1022/0,\ 13-20 = 0/820,\ 11-20 = -734/0,\ 11-21 = 0/486,\ 9-21 = -494/0,\ 9-22 = -92/723,$

8-22=-365/15, 16-18=-1365/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-28=-7, 1-16=-67 Concentrated Loads (lb) Vert: 16=-700



April 14,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

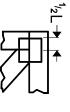
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chort 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/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.sbcacomponents.com)



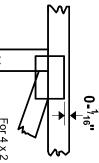
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Symbols

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



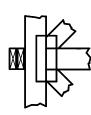
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

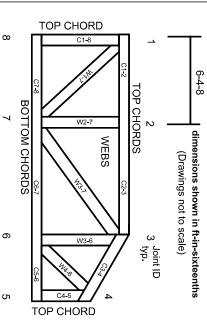
Industry Standards:

ANSI/TPI1: National Design Specification for Metal

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

DSB-22: BCSI:

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. 1/2/2023

▲ 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.

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- 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.
- 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.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.