

Trenco 818 Soundside Rd Edenton, NC 27932

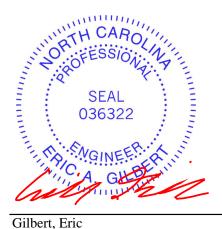
Re: J0224-1108 Lot 147 Duncan's Creek

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: I65464372 thru I65464372

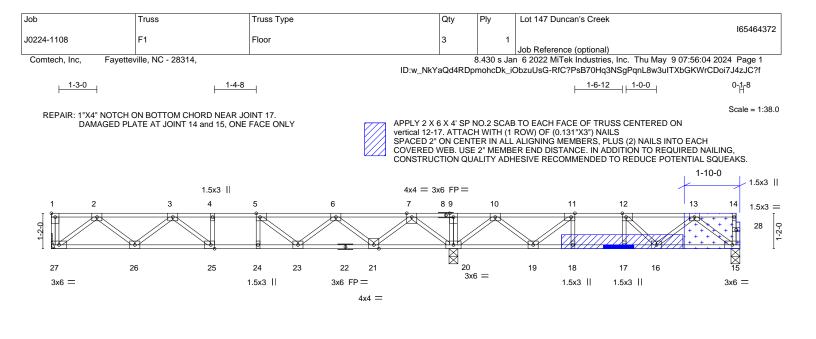
My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



May 14,2024

**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.



	13-3-0 13-3-0					9-5-4					
Plate Offsets (X,Y) [1:Edge,0-1-8], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [25:0-1-8,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 0.38 BC 0.50 WB 0.42 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.10 0.02	(loc) 24 24 15	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 115 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E		
LUMBER- BRACING-   TOP CHORD 2x4 SP No.1(flat) TOP CHORD   BOT CHORD 2x4 SP No.1(flat) TOP CHORD   WEBS 2x4 SP No.3(flat) BOT CHORD   WEBS 2x4 SP No.3(flat) BOT CHORD   Rigid ceiling directly applied or 6-0-0 oc bracing.											
REACTIONS. (size) 27=Mechanical, 20=0-3-8, 15=0-3-8 Max Grav 27=641(LC 10), 20=1483(LC 1), 15=439(LC 4) Max Grav 27=641(LC 10), 20=1483(LC 1), 15=439(LC 1), 15=439(											
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.   TOP CHORD 2-3=-1217/0, 3-4=-1775/0, 4-5=-1775/0, 5-6=-1508/0, 6-7=-607/84, 7-9=0/1357, 9-10=0/1357, 10-11=-461/502, 11-12=-846/202, 12-13=-727/51											
BOT CHORD 26-27=0/779, 25-26=0/1622, 24-25=0/1775, 23-24=0/1775, 21-23=0/1221, 20-21=-354/0, 19-20=-745/100, 18-19=-202/846, 17-18=-202/846, 16-17=-202/846, 15-16=0/524   WEBS 2-27=-978/0, 2-26=0/569, 3-26=-527/0, 3-25=-77/318, 7-20=-1258/0, 7-21=0/873, 6-21=-839/0, 6-23=0/425, 5-23=-476/0, 10-20=-952/0, 10-19=0/608, 11-19=-695/0, 13-15=-654/0, 13-16=-92/265											

## NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Refer to girder(s) for truss to truss connections.

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.



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/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)

A MiTek Affiliate 818 Soundside Road

Edenton, NC 27932

