

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 30224-30224A 11 BIRCHWOOD GROVE

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I55215407 thru I55215408

My license renewal date for the state of North Carolina is December 31, 2022.

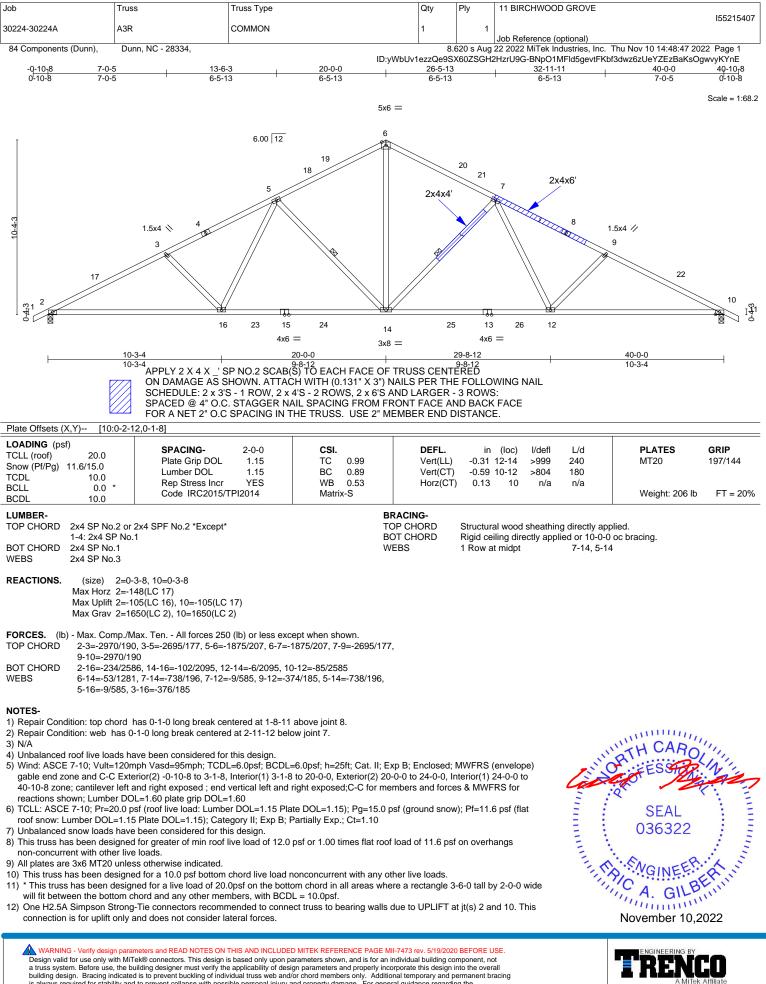
North Carolina COA: C-0844



November 10,2022

## 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.



besign valid to less only with with twe commendations. This besign is based only upon parameters and properly incorporate this design into the overall 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 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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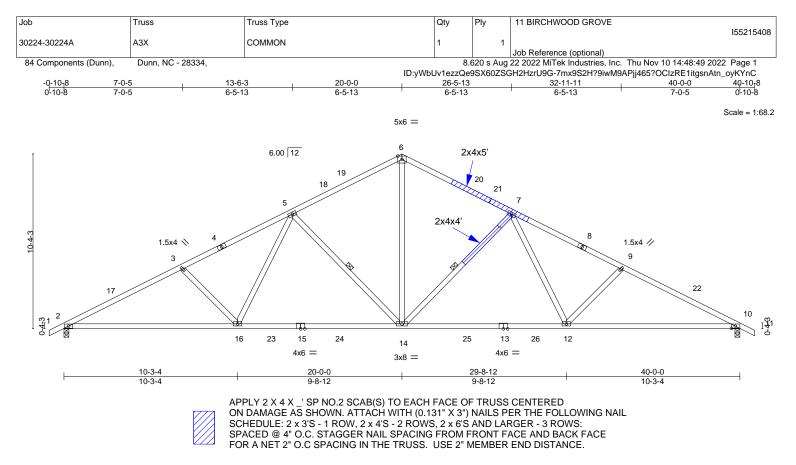


Plate Offsets (X,Y) [10:0-2-1	2,0-1-8]							
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         11.6/15.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.99 BC 0.89 WB 0.53 Matrix-S	Vert(CT) -(	in (loc) 0.31 12-14 0.59 10-12 0.13 10	l/defl >999 >804 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 206 lb	<b>GRIP</b> 197/144 FT = 20%
BCDL 10.0							Weight. 200 lb	11 = 2070
LUMBER-BRACING-TOP CHORD2x4 SP No.2 or 2x4 SPF No.2 *Except*TOP CHORDStructural wood sheathing directly applied.1-4: 2x4 SP No.1BOT CHORDRigid ceiling directly applied or 10-0 oc bracing.BOT CHORD2x4 SP No.1WEBS1 Row at midptVEBS2x4 SP No.3TOP CHORDNot at midpt								
Max Horz 2=14 Max Uplift 2=-1	3-8, 10=0-3-8 I8(LC 20) 05(LC 16), 10=-105(LC 17) 350(LC 2), 10=1650(LC 2)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2970/190, 3-5=-2695/177, 5-6=-1875/207, 6-7=-1875/207, 7-9=-2695/177, 9-10=-2970/190								
BOT CHORD 2-16=-234/258	36, 14-16=-102/2095, 12-14=-6/2095, 10 I, 7-14=-738/196, 7-12=-9/585, 9-12=-3							
<ol> <li>Repair Condition: web has 0</li> <li>N/A</li> <li>Unbalanced roof live loads hat</li> <li>Wind: ASCE 7-10; Vult=120n gable end zone and C-C Externation of the state of the sta</li></ol>	sf (roof live load: Lumber DOL=1.15 Pla 5 Plate DOL=1.15); Category II; Exp B; I 9 been considered for this design. 1 for greater of min roof live load of 12.0 9 loads.	joint 7. =6.0psf; h=25ft; Cat. II; E to 20-0-0, Exterior(2) 20 right exposed;C-C for me te DOL=1.15); Pg=15.0 p Partially Exp.; Ct=1.10 psf or 1.00 times flat root ponconcurrent with any o pom chord in all areas whe	-0-0 to 24-0-0, Interic mbers and forces & I osf (ground snow); Pf f load of 11.6 psf on c ther live loads.	or(1) 24-0-0 tr MWFRS for f=11.6 psf (fla overhangs		A CHARLEN CONTRACT	SEAL 036322	
12) One H2.5A Simpson Strong Connection is for uplift only a Design valid for use only with Min a truss system. Before use, the b building design. Bracing indicate is always required for stability and fabrication, storage, delivery, ere	The connectors recommended to connect and does moticonsidentiateral forces. Upe fet® connectors. This design is based only upon p uilding designer must verify the applicability of des d is to prevent buckling of individual truss web and t to prevent collapse with possible personal injury iction and bracing of trusses and truss systems, se m Truss Plate Institute, 2670 Crain Highway, Suite	ect truss to bearing walls D MITEK REFERENCE PAGE M arameters shown, and is for an gn parameters and properly inc for chord members only. Additi and property damage. For gene e ANS/TPTI Quality C	III-7473 rev. 5/19/2020 BEF individual building compon orporate this design into th onal temporary and permar	FORE USE. nent, not he overall anent bracing			ENGINEERING BY A MITek 818 Soundside Road Edenton, NC 27932	<b>10</b> Affiliate

