

Blaylock  
268 Robeson St.  
Sp. Lake, NC

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

Re: 2001074-2001074A  
Doug Blaylock 20x20

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: I43946809 thru I43946809

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

North Carolina COA: C-0844



December 10, 2020

Sevier, Scott

**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.

Blaylock-263-0486 268 Robeson St. SP. Lake

Job 2001074-2001074A	Truss S20	Truss Type SCISSORS	Qty 11	Ply 1	Doug Blaylock 20x20	143946809
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84 Components (Dunn), Dunn, NC - 28334, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Dec 10 08:21:05 2020 Page 1  
 ID:BLMYPJr8nyrUNPysQzkskyAQgK-vpN2q7aluoas3H0xRf7TC8uETuK2Yk4fM?OsB4yAQYI



Scale = 1:35.8

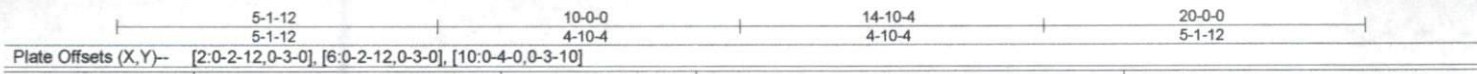
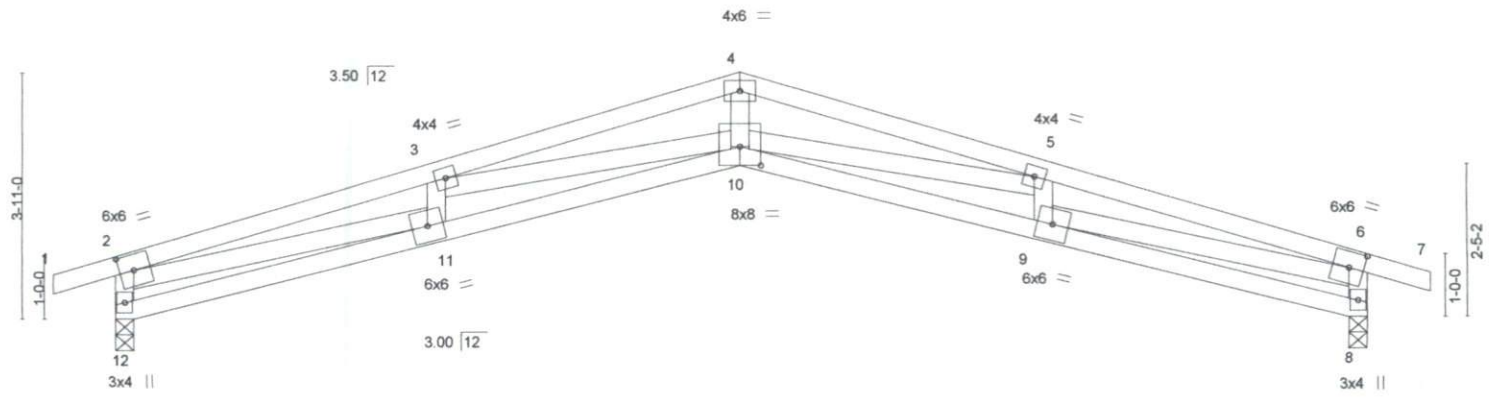


Plate Offsets (X,Y)-- [2:0-2-12,0-3-0], [6:0-2-12,0-3-0], [10:0-4-0,0-3-10]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.32	10	>735	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.65	10	>366		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.38	8	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS					Weight: 99 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-11,6-9: 2x4 SP No.2 or 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-3-5 oc bracing.

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8  
 Max Horz 12=-29(LC 17)  
 Max Uplift 12=-155(LC 8), 8=-155(LC 9)  
 Max Grav 12=857(LC 1), 8=857(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3125/716, 3-4=-3458/738, 4-5=-3458/738, 5-6=-3125/700, 2-12=-856/276, 6-8=-856/284  
 BOT CHORD 11-12=-98/318, 10-11=-646/3006, 9-10=-630/3006, 8-9=-66/318  
 WEBS 4-10=-264/1610, 5-10=-97/552, 5-9=-337/162, 3-10=-72/552, 3-11=-337/160, 2-11=-550/2658, 6-9=-565/2658

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.



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