

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 28007 Truck Tire Pro\

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by C & R Truss.

Pages or sheets covered by this seal: I65570932 thru I65570934

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

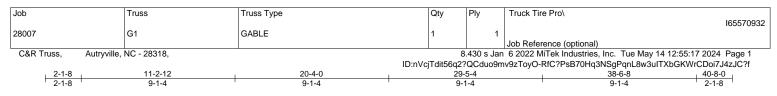
North Carolina COA: C-0844



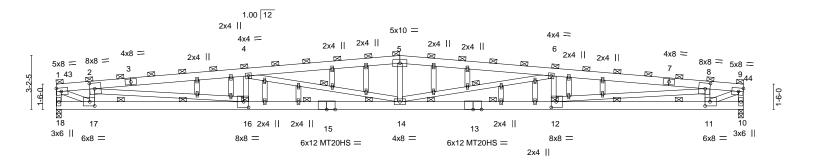
May 15,2024

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.



Scale = 1:68.2



2-1-8	11-2-12	20-4-0	29-		1	38-6-8	40-8-0	
	9-1-4	9-1-4	9-1			9-1-4	2-1-8	
Plate Offsets (X,Y) [2:0-3-8,0-4-0], [8:0-3-8,0-4-0], [11:0-3-8,0-3-0], [12:0-3-8,0-4-0], [16:0-3-8,0-4-0], [17:0-3-8,0-3-0]								
LOADING(psf)TCLL20.0TCDL5.0BCLL0.0BCDL5.0	SPACING- 3-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.68 BC 0.56 WB 0.90 Matrix-MS	Vert(LL) -0.77 Vert(CT) -1.16 Horz(CT) 0.14	(loc) l/defl 12-14 >631 12-14 >417 10 n/a 12-14 >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 281 lb	GRIP 244/190 187/143 FT = 20%	
LUMBER- TOP CHORD 2x6 SP 2400F 2.0E *Except* BRACING- TOP CHORD 2-0-0 oc purlins (2-6-9 max.), except end verticals. 1-3,7-9: 2x6 SP No.1 BOT CHORD 2x6 SP 2400F 2.0E BOT CHORD 4-0-0 oc bracing. BOT CHORD 2x6 SP 2400F 2.0E, 1-18,9-10,1-17,9-11: 2x4 SP No.2 WEBS 1 Row at midpt 4-14, 6-14 OTHERS 2x4 SP No.3 SP 2400F 2.0E, 1-18,9-10,1-17,9-11: 2x4 SP No.2 SP No.3 SP No.3								
REACTIONS. (size) 18=0-3-8, 10=0-3-8 Max Horz 18=-44(LC 6) Max Uplift 18=-426(LC 8), 10=-426(LC 8) Max Grav 18=1817(LC 1), 10=1817(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-3387/804, 2-4=-7457/1768, 4-5=-6932/1644, 5-6=-6932/1644, 6-8=-7457/1768,								
8-9=-3387/804, 1-18=-1871/418, 9-10=-1871/418 BOT CHORD 16-17=-762/3350, 14-16=-1709/7401, 12-14=-1709/7401, 11-12=-762/3350 WEBS 2-17=-1528/445, 4-16=-501/221, 5-14=-22/594, 6-12=-501/221, 8-11=-1528/445, 2-16=-954/4087, 4-14=-1215/518, 8-12=-954/4087, 1-17=-858/3683, 9-11=-858/3683								
2) Wind: ASCE 7-16; V		nph; TCDL=2.5psf; BCDL=	al left and right exposed	l; Lumber DOL=1.6		TH C	AP	

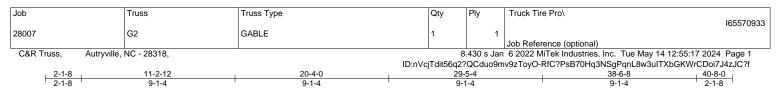
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 426 lb uplift at joint 18 and 426 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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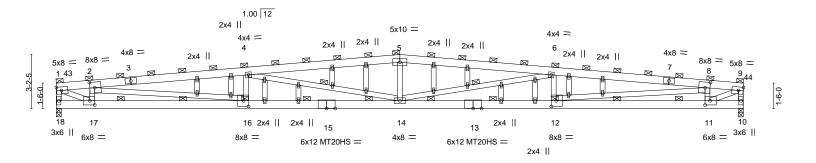
Edenton, NC 27932

818 Soundside Road

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 **PCB Building Component Scietus Information**, and the from the Structure Building Component Advance interport of the property damage. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Scale = 1:68.2



2-1-8	11-2-12	20-4-0	29-5-4	38-6-8	40-8-0		
2-1-8	9-1-4	9-1-4	9-1-4	9-1-4	2-1-8		
Plate Offsets (X,Y)	[2:0-3-8,0-4-0], [8:0-3-8,0-4-0], [11:0-3-	8,0-3-0], [12:0-3-8,0-4-0],	16:0-3-8,0-4-0], [17:0-3-8,0-3-0]				
LOADING (psf) TCLL 20.0 TCDL 5.0 BCLL 0.0 BCDL 5.0	SPACING- 3-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IBC2018/TPI2014	CSI. TC 0.68 BC 0.56 WB 0.90 Matrix-MS	DEFL. in (loc) l/defl Vert(LL) -0.77 12-14 >631 Vert(CT) -1.16 12-14 >417 Horz(CT) 0.14 10 n/a Wind(LL) 0.46 12-14 >999	L/d PLATES 360 MT20 240 MT20HS n/a 240 Weight: 281 I	GRIP 244/190 187/143 b FT = 20%		
LUMBER- TOP CHORD 2x6 SP 2400F 2.0E *Except* BRACING- TOP CHORD 1-3,7-9: 2x6 SP No.1 DOP CHORD 2-0-0 oc purlins (2-6-9 max.), except end verticals. BOT CHORD BOT CHORD 2x6 SP 2400F 2.0E BOT CHORD 4-0-0 oc bracing. WEBS 2x4 SP No.3 *Except* 2-16,8-12: 2x4 SP 2400F 2.0E, 1-18,9-10,1-17,9-11: 2x4 SP No.2 WEBS 1 Row at midpt 4-14, 6-14 OTHERS 2x4 SP No.3 Except* 2-16,8-12: 2x4 SP 2400F 2.0E, 1-18,9-10,1-17,9-11: 2x4 SP No.2 Except*							
Max H Max U	e) 18=0-3-8, 10=0-3-8 lorz 18=-44(LC 6) plift 18=-426(LC 8), 10=-426(LC 8) rav 18=1817(LC 1), 10=1817(LC 1)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-3387/804, 2-4=-7457/1768, 4-5=-6932/1644, 5-6=-6932/1644, 6-8=-7457/1768, 8-9=-3387/804, 1-18=-1871/418, 9-10=-1871/418 BOT CHORD 16-17=-762/3350, 14-16=-1709/7401, 12-14=-1709/7401, 11-12=-762/3350 WEBS 2-17=-1528/445, 4-16=-501/221, 5-14=-22/594, 6-12=-501/221, 8-11=-1528/445, 2-16=-954/4087, 4-14=-1215/518, 6-14=-1215/518, 8-12=-954/4087, 1-17=-858/3683, 9-11=-858/3683							
 Wind: ASCE 7-16; V II; Exp B; Enclosed; plate grip DOL=1.60 Truss designed for v Gable End Details a Dead loads shown in verify adequacy of to All plates are MT20 All plates are 1.5x4 I Gable studs spaced This truss has been Provide mechanical at joint 10. 	MWFRS (directional); cantilever left and vind loads in the plane of the truss only. s applicable, or consult qualified buildin include weight of truss. Top chord dead op chord dead load. plates unless otherwise indicated. MT20 unless otherwise indicated. at 2-0-0 oc. designed for a 10.0 psf bottom chord liv connection (by others) of truss to bearing	TCDL=2.5psf; BCDL= d right exposed ; end vertie For studs exposed to wir g designer as per ANSI/TF load of 5.0 psf (or less) is re load nonconcurrent with ng plate capable of withsta	not adequate for a shingle roof. Architect	60 stry to Slift	EAL 6322		

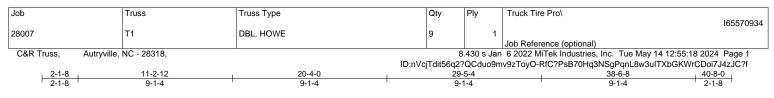
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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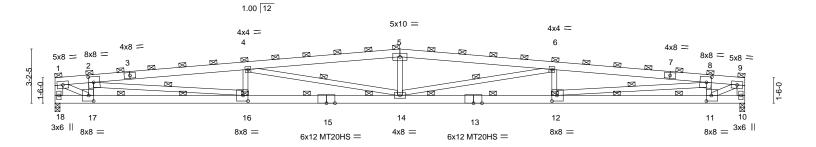


Edenton, NC 27932

G minim May 15,2024



Scale = 1:67.9



2-1-8	9-1-4	<u>20-4-0</u> 9-1-4		-5-4 1-4		<u>38-6-8</u> 9-1-4	40-8-0
Plate Offsets (X,Y)	[2:0-3-8,0-4-0], [8:0-3-8,0-4-0], [11:0-3-	• • •				9-1-4	2-1-0
LOADING (psf)	SPACING- 3-0-0	CSI.		n (loc) l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73		12-14 >603	360	MT20	244/190
TCDL 5.0	Lumber DOL 1.15	BC 0.58		12-14 >399	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.96	Horz(CT) 0.14		n/a		
BCDL 5.0	Code IBC2018/TPI2014	Matrix-MS	Wind(LL) 0.48	12-14 >999	240	Weight: 261 lb	FT = 20%
LUMBER-			BRACING-				
TOP CHORD 2x6 S	TOP CHORD 2x6 SP 2400F 2.0E *Except* TOP CHORD 2-0-0 oc purlins (2-5-15 max.), except end verticals.						
1-3.7	-9: 2x6 SP No.1		BOT CHORD	4-0-0 oc bracin	a.	<i>,,,</i>	
BOT CHORD 2x6 S	SP 2400F 2.0E		WEBS	1 Row at midpt	0	2-16, 4-14, 6-14, 8-12	
WEBS 2x4 S	SP No.3 *Except*					-, , , - , -	
	8-12,1-17,9-11: 2x4 SP No.2, 1-18,9-10:	2x6 SP No.1					
REACTIONS. (size) 18=0-3-8, 10=0-3-8 Max Horz 18=-45(LC 6) Max Uplift 18=-424(LC 8), 10=-424(LC 8) Max Grav 18=1809(LC 1), 10=1809(LC 1)							
	x. Comp./Max. Ten All forces 250 (lb) o						
	=-3430/814, 2-4=-7325/1737, 4-5=-6890/	, , ,	8=-7325/1737,				
	=-3430/814, 1-18=-1893/418, 9-10=-1893		10000				
	17=-773/3396, 14-16=-1677/7268, 12-14						
	WEBS 2-17=-1542/453, 4-16=-505/222, 5-14=-17/580, 6-12=-505/222, 8-11=-1542/453,						
	6=-912/3906, 4-14=-1142/571, 6-14=-114	12/571, 8-12=-912/3906, 1	1-17=-854/3672,				
9-1	1=-854/3672						
NOTES-							
	ve loads have been considered for this de	esian.					
	Vult=125mph (3-second gust) Vasd=99n		=2.5psf: h=20ft: B=45ft: I	_=41ft: eave=5ft:	Cat.		

 Wind: ASCE 7-16; Vuit=125mph (3-second gust) Vasd=99mph; TCDL=2.5pst; BCDL=2.5pst; h=20tt; B=45tt; L=41tt; eave=5tt; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.

4) All plates are MT20 plates unless otherwise indicated.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 424 lb uplift at joint 18 and 424 lb uplift at joint 10.

7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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