

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 3883834

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: I66516967 thru I66516967

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

North Carolina COA: C-0844



June 28,2024

## 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.

Job		Truss		Truss Type		Qty	P	ly						
3883834		F1C		Floor		2	1	,	ob Refere	ance (or	tional)		166516967	
uilders First	Source (Albermarl	e), Albemar	le, NC - 28001,		Run: 8.63 S Jur	17 2024 F	Print: 8.630					/ed Jun 26 15:30:38	Pag	e: 1
					ID:M_3y_j3Kdsb	zXLU74j7e	ecwziEw1-F	RfC?PsB70H	lq3NSgPqi	nL8w3ulT	XbGKW	/rCDoi7J4zJC?f	-	
REPAIR: BREAK IN	N TOP CHORD LO	OCATED A	T MIDPOINT											
	1-3-0	-			0-6-8	0-6  -	5-8							
	0-1-8 ∐	0-8-0			1-1	0-0						0-4-4		
	11				I	I								
		4x12	= 3x6 =	3x6 FP	1.5x3 u	1.5x	3 II			:	3x6 =	4x12 =	3x6 =	
	1 30	2	3	4 5	6 7	8	9	1	0	1	1	12	13	
1-2-0										/	*			1-2-0
÷	28	<del>/</del>				K	<u> </u>	M		4				÷
	1.5x3 =	27	25	24 2	3 22	21		20	19 18	В		17 X 15		
	1.5x3 u	20	4x6 =	3x6 =				MT20	)HS 3x10 F	-P		4x6 =		
	1.575 1	777		0' SPF/DF/SP NO.2 SCAE			CENTER		3	x6 =				
			ATTACH WITH (	1 ROW) OF (0.131"X3") N R END DISTANCE. IN ADI	AILS SPACED 2" ON (	CENTER I	N ALL ALIC	GNING MEN	AGE. IBERS.					
				SIVE RECOMMENDED TO	O REDUCE POTENTIA	L SQUEA								
	0-1-8 1 2-2-	0 2-3-12		10-7-0	11-6-0	12-5-0			20-8-	л		2 20-10-0	2-8-4	
	0-1-8 2-0-			8-3-4	0-11-0				8-3-4			0-1-12 <sup>1</sup>	-10-4	
Scale = 1:40						0-11-0						-		
late Offset	s (X, Y): [14:E	dge,0-1-8	, [21:0-1-8,Edge], [	22:0-1-8,Edge]								1	-	
<b>oading</b> CLL		(psf)	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.00	DEFL Vert(LL)	in 0.26	(loc) 21-22	l/defl >617	L/d	PLATES MT20	GRIP	
CDL		40.0 10.0	Lumber DOL	1.00	BC	0.89 0.95	Vert(LL)			>617 >455	480 240	MT20HS	244/190 187/143	
CLL		0.0	Rep Stress Incr	NO	WB Motrix S	0.68	Horz(CT	) 0.08	16	n/a	n/a	Woight 110 lb	ET - 200/ E	1 1 0/ 🗖
CDL		5.0	Code	IRC2015/TPI2014	Matrix-S			_				Weight: 119 lb	FT = 20%F, 1	11%E

LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. (size) 16=0-3-8, 26=0-3-8 Max Grav 16=1224 (LC 4), 26=1255 (LC 3)	6)	International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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. CAUTION, Do not erect truss backwards. This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as		
FORCES	(Ib) - Maximum Compression/Maximum	LC	referenced by the building code. DAD CASE(S) Standard		
TOP CHORD	Tension 1-28=0/8, 13-14=0/9, 1-2=0/121, 2-3=-1135/0, 3-5=-2884/0, 5-6=-3948/0, 6-7=-4373/0, 7-8=-4373/0, 8-9=-4373/0, 9-10=-3952/0, 10-11=-2892/0, 11-12=-1147/0, 12-13=0/113				
BOT CHORD	27-28=0/0, 26-27=-198/0, 25-26=-192/0, 24-25=0/2168, 23-24=0/3568, 22-23=0/4303, 21-22=0/4373, 20-21=0/4305, 18-20=0/3574, 17-18=0/2178, 16-17=-144/20, 15-16=-153/2, 14-15=0/0				WICH CARO
WEBS	2-26=-1213/0, 7-22=-394/150, 8-21=-387/156, 12-16=-1161/0, 1-27=-154/0, 2-27=0/127, 2-25=0/1430, 3-25=-1345/0, 3-24=0/953, 5-24=-908/0, 5-23=0/507, 6-23=-536/0, 6-22=-271/597, 12-17=0/1420, 11-17=-1342/0, 11-18=0/946, 10-18=-902/0, 10-20=0/502, 9-20=-529/0, 9-21=-281/586, 13-15=-142/0, 12-15=-24/93			Contraction of the second	SEAL 036322
this design 2) All plates a	ed floor live loads have been considered for			AL A	A. GILBER



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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

RE

