

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25030054-02 50 Magnolia Acres-2nd Floor-Grayson FA SP 3FL 3CG FE GLH

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

Pages or sheets covered by this seal: I75000859 thru I75000859

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



July 21,2025

Tony Miller

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 T	уре			Qty	Ply	50) Magnol	ia Acres	s-2nd F	loor-Grayson FA		
25030054-0)2	SF13			Floor				1	1	Jo	b Refere	ence (op	tional)		1750008	59
Carter Compone	ents (Sanford, NC	C), Sanfor	d, NC - 27332,								b 19 20)25 MiTek	Industrie	s, Inc. F	ri Jul 18 03:46:19 KWrCDoi7J4zJC?f		Page: 1
1/2	PAIR: " HOLE DRILLE) REPAIR REQU		UGH TOP CHC	ORD AS	SHOWN.		ID.OTI93K	0-5-8	(TF VOL)	LUMBER AND THE	MUST	BE DRIL	LED CLE	EANLY A	AND ACCURATEL UNDAMAGED. ATED WITHIN 12	Y	
	0-1-8 						2-0-0									0-1-8 	
	4x6 =				3x5 =			3x5	0-6-0 3x5 =			3x5 = 3x6 FP			9 4x6 =		
—	1 2 2	2	2	3	4	5	5	6 7		8		9	1	0 11	12	13 23	-
1-2-0							*								*		1-2-0
Ϋ́_	21		20 1	9		1	8	 17		16			1	5			`
	3x6 =		3x6 FP			3x	5 =	3x5 =		3x5 =			4	4x8 =		3x6 =	
			4	4x8 =													
	1		7-2	2.0								18-7				1	
			7-2				8-2-0 9-2					9-5					
$\frac{\text{Scale} = 1:34.5}{\text{Plate Offsets (}}$	(X, Y): [17:0-1	-8,Edge]], [18:0-1-8,Ed	lge]													
Loading		(psf)	Spacing		2-0-0		CSI			EFL	in	()	l/defl	L/d	PLATES	GRIP	
TCLL TCDL		40.0 10.0	Plate Grip D Lumber DOL	_	1.00 1.00		TC BC	0.0 0.0	53 Ve	ert(LL) ert(CT)	-0.32 -0.44	16-17	>681 >496	480 360	MT20	244/190	
BCLL BCDL		0.0 5.0	Rep Stress I Code	Incr	YES IRC2018	3/TPI2014	WB Matrix-MS	0.0 H	67 Ho	orz(CT)	0.07	14	n/a	n/a	Weight: 94 lb	FT = 20%	F, 11%E
LUMBER TOP CHORD	2x4 SP 2400 SP No.2(flat		flat) *Except* ·	11-13:2		10-00-00 o (0.131" X 3	nd 2x6 strongt c and fastene ") nails. Stror	d to each ti ngbacks to	uss wit be atta	h 3-10d ched to wa	IIIs						
BOT CHORD	2400F 2.0E(flat)	xcept* 20-14:2	2x4 SP	LC		er ends or res 6) Standard	trained by	other m	eans.							
WEBS OTHERS BRACING TOP CHORD	2x4 SP No.3(flat) 2x4 SP No.3(flat)																
BOT CHORD	6-0-0 oc pur Rigid ceiling	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc															
REACTIONS	()	,	21=0-3-8 (LC 1), 21=10	02/10	1)												
FORCES			pression/Maxi		")												
TOP CHORD	1-21=-74/0, 2-3=-2771/0 5-6=-4309/0	, 3-4=-23 , 6-7=-43	70/0, 1-2=-4/0 771/0, 4-5=-43 309/0, 7-8=-42 2769/0, 10-12	309/0, 201/0,	(0												
BOT CHORD	12-13=-4/0 19-21=0/157	, 70, 18-19	9=0/3624, 17- ⁻	18=0/43	309,											10.	
WEBS	5-18=-380/0	, 6-17=-3	6=0/3631, 14- 310/345, 2-21	=-1811/											TH CA	RO,"	
	4-18=0/1007	, 12-14=	187/0, 4-19=- =-1820/0, 12-1 -1007/0, 9-16	5=0/13									_	N. C.	OFES	io: 1	il.
NOTES	8-16=-169/0	, 7-16=-4	432/20, 7-17=	-520/40	9										SEA	A see	
this desigr															0235		
	are 1.5x3 MT2 are assumed to				14											لم م	1111
4) This truss Internation		Code se	ections R502.1	11.1 an	d									in the	ONY R.	EEFR. EP	NIN TO
															Jui	y 21,2020	,

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 outlapse 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



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