

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

RE: 4656272 - Bellwood A	Trenco
	818 Soundside Rd Edenton, NC 27932
Site Information: Project Customer: DREAM FINDERS HC Lot/Block: 469 Address: 113 STEEPLE RIDGE	DMES Project Name: Subdivision: THE COLONY @ LEXINGTON PLANTATION
City: CAMERON	State: NC
Name Address and License # of Structu Name: Address:	ural Engineer of Record, If there is one, for the building. License #:
City, County:	State:
General Truss Engineering Criteria & D Loading Conditions):	esign Loads (Individual Truss Design Drawings Show Special
Design Code: IRC2021/TPI2014	Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-16 Wind Speed: 150 mph	Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16
Roof Load: 40.0 psf	Floor Load: N/A psf
This package includes 1 individual, dated	Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Nar	ne Date
1	174692836	4656272	A02	7/7/25

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

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

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.



Gilbert, Eric

July 7,2025

1 of 1



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV Address: \$SI_SITEADDR City, County: \$SI_SITECITY State: \$SI_SITESTATE

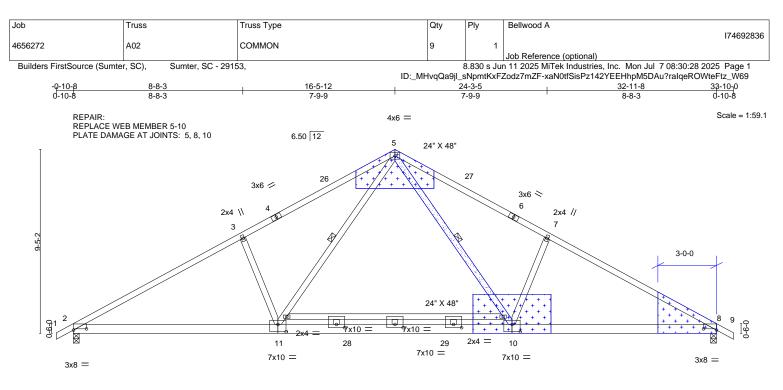


RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV Address: \$SI_SITEADDR City, County: \$SI_SITECITY State: \$SI_SITESTATE





INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT. + + + + + + + + ATTACH 7/16" OSB GUSSET (7/16" RATED SHEATHING 24/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Structural wood sheathing directly applied or 3-7-5 oc purlins.

5-10. 5-11

Rigid ceiling directly applied or 7-5-6 oc bracing.

1 Row at midpt

		10-5-12		13-5-12	2 16-5-12	19-5-12	2 22-5-12			32-11-8	
	1	10-5-12		3-0-0	3-0-0	3-0-0	3-0-0	1		10-5-12	1
Plate Offs	sets (X,Y)	[2:0-8-0,0-0-12], [8:0-8-0	,0-0-12], [10:0·	-5-0,0-4-8], [1	1:0-5-0,0-4-8], [14:0-5-0,0-2-0], [16:0-5-0,0-2	-0], [18:0-	5-0,0-2-0]		
LOADING	G (psf)	SPACING-	2-2-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.12 10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.39 10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.06 8	n/a	n/a		
BCDL	10.0	Code IRC2021/T	PI2014	Matrix	-MS	Wind(LL)	0.20 11-22	>999	240	Weight: 200 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

 TOP CHORD
 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=348(LC 11) Max Uplift 2=-622(LC 12), 8=-622(LC 13) Max Grav 2=1545(LC 1), 8=1545(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-2517/873, 3-5=-2390/1006, 5-7=-2390/1006, 7-8=-2517/873

BOT CHORD 2-11=-847/2112, 10-11=-315/1386, 8-10=-544/2112

WEBS 5-10=-527/1082, 7-10=-580/666, 5-11=-527/1082, 3-11=-580/666

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-1, Interior(1) 2-5-1 to 16-5-12, Exterior(2R) 16-5-12 to 19-9-5, Interior(1) 19-9-5 to 33-10-0 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

3) 120.0lb AC unit load placed on the bottom chord, 16-5-12 from left end, supported at two points, 5-0-0 apart.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=622, 8=622.



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

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