

Trenco RE: 2503-3844-A - Cambell Ridge Lot 00.0007 OWF Repair 818 Soundside Rd Site Information: Edenton, NC 27932 Project Customer: DRB Raleigh Project Name: Cambell Ridge Lot 00.0007 Lot/Block: Subdivision: Cambell Ridge Model: Address: 196 Alden Way City: Angier State: NC General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.8 Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 50.0 psf Exposure Category: B Mean Roof Height (feet): 25 No. Seal# **Truss Name Date** 1 I72094812 2F14 3/18/25

The truss drawing(s) referenced above have been prepared by

Truss Design Engineer's Name: Gagan, Iqbal 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 part the building designer should verify applicability incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



March 18,2025

Gagan, Iqbal

Job	Tr	uss	Truss Type		Qty	Ply	Cambell Ridge Lot 00.000	7 OWF Repair	
2503-3844-	·A 26	=14	Floor		1	1	Job Reference (optional)		172094812
Structural, LLC,	Thurmont, MD - 217	88,					2025 MiTek Industries, Inc. Mc 70Hq3NSgPqnL8w3uITXbGKW		Page: 1
	D BROKEN RIGHT NT 19 MUST REMA	0-1-8 H OF JOINT 19 IN FULLY EMBEDDED ANI 1.5x3 =	DUNDISTURBED	<u>1-3-</u> 20-1 ^{3x3} ⊪ 9	<u>)</u>	0-6-8	2-0-0 0-9-0	0-1-8 H 3x3= 1.5x3=	
		1 47 2 48 3 32 32 35 31 36 30 3x3 = /SP NO.2 SCAB(S) TO EAC ITH (1 ROW) OF (0.131*X3)	37 29 28 38 26 27 3x6 FP CH FACE OF TRUSS CEN	52 7 53 8 54 53 9 25 40 24 23 3x6=	10 11 10 41 22 3x3	12 13 42 21	56 14 15 58 56 14 15 58 56 14 15 58 56 14 19 3x3= 40-0	16 59 17 34 45 46 3x6=	1-2-0
NAILS END [SPACED 2" ON CE DISTANCE. IN ADDI	INTER IN ALL ALIGNING M TION TO REQUIRED NAIL COMMENDED TO REDUCE	IÉMBERS. USE 2" MEMB ING, CONSTRUCTION	ER	<u>14-1-0</u> 4-5-0	15- 1-0	20-11-9	·]	
Plate Offsets	(X, Y): [21:0-1-8,E	Edge]							
Loading TCLL TCDL BCLL BCDL		.0 Plate Grip DOL	1-4-0 1.00 1.00 NO IRC2021/TPI2014	CSI TC BC WB Matrix-S	0.63 DEF 0.86 Vert 0.31 Horz	(LL) -0.	13 21-22 >999 480 14 21-22 >989 360	PLATES MT20 Weight: 99 lb	GRIP 244/190 FT = 20%F, 12%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	(flat) 2x4 SP No.2(fla 2x4 SP No.3(fla 2x4 SP No.3(fla Structural wood 6-0-0 oc purlins Rigid ceiling dir bracing. (size) 18=0 25=9 29=9 32=9 Max Horiz 32=3 Max Uplift 18=-2 24=-5	t) t) sheathing directly applii , except end verticals. ectly applied or 6-0-0 oc -3-8, 23=9-8-0, 24=9-8-0 -8-0, 30=9-8-0, 31=9-8-0 -8-0 7 (LC 5) 212 (LC 8), 23=-56 (LC 6 565 (LC 62), 25=-6 (LC 5	ed or WEBS),),), NOTES (0), 1) Unbalance (b), 0 Unbalance (b), 0 Unbalance		29=-761/762 26=-1170/1 3-24=-1407 1-22=-782/ -20=-539/1 1=-582/550, 23=-898/464 22=-661/444 18=-851/351 19=-637/453 1=-270/12, -269/13, 5-2 -269/14, 8-2 been consid	2, 171, 171, 1538, 360, 4, 8, 8, 8, 3, 27=-269/14, 24=-299/250 dered for	truss to resist drag to 20-6-1 for 153.3 10) Recommend 2x6 st 10-00-00 oc and fa (0.131" X 3") nails. at their outer ends (11) CAUTION, Do not (LOAD CASE(S) Stan	1.33) Plate grip E loads along botto plf. trongbacks, on e stened to each tr Strongbacks to or restrained by o erect truss backw dard	ODL=(1.33) Connect om chord from 0-0-0 dge, spaced at uss with 3-10d be attached to walls other means. <i>r</i> ards.
FORCES TOP CHORD	26=-6 29=-6 31=-3 Max Grav 18=5 24=3 26=2 29=2 31=2 (lb) - Maximum Tension 1-32=-259/18, 1 2-3=-372/371, 3 5-6=-972/972, 6 7-8=-1372/1351 9-10=-1610/160 12-13=-1268/33	6 (LC 57), 27=-6 (LC 56) 5 (LC 55), 30=-9 (LC 54) 3 (LC 56), 32=-14 (LC 23) 41 (LC 3), 23=921 (LC 6 41 (LC 3), 23=921 (LC 7 79 (LC 72), 27=280 (LC 80 (LC 70), 30=279 (LC 81 (LC 68), 32=262 (LC Compression/Maximum 7-18=-258/35, 1-2=-172/ 3-4=-572/571, 4-5=-772/ 5-7=-1172/1171, 1, 8-9=-1404/1403, 90, 10-12=-1525/1099, 90, 13-14=-1507/657, 79, 15-16=-987/346,	 All plates a indicated. Truss to b braced ag Truss to b braced ag Gable stuc 71), 5) All bearing bl 24. Provide m bearing bl 24. One H2.5/ recommer This conne lateral forc This truss load of 25/ panels and 	are 1.5x3 () MT20 un e fully sheathed from o ainst lateral movement ds spaced at 1-4-0 oc. Is are assumed to be S echanical connection (ate capable of withstar A Simpson Strong-Tie Ided to connect truss to ided to connect truss to it(s) 32, 23, 18, 31, 30 ection is for uplift only a res. has been designed for 0.0lb live and 3.0lb dea d at all panel points alc loord, nonconcurrent with	ne face or s (i.e. diagon P No.2 . by others) o ding 565 lb connectors bearing wa , 29, 27, 26, ind does no a moving c d located at ing the Top	ecurely al web). f truss to uplift at joint alls due to , and 25. t consider oncentrated t all mid Chord and	A Contraction of the second se	MA H.A	

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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