

Trenco 818 Soundside Rd Edenton, NC 27932

Re: SP Mattamy; Lot 26 PC

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-Apex,NC.

Pages or sheets covered by this seal: I59293560 thru I59293561

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



July 3,2023

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 T	vne			Qty		Ply	Mattamy;		0				
SP		A05A				oack Base			3		гу 1	-		2	UNITS		159293560	
	urce (Apex, NC),		C - 27523		гіддур	OUN DUSE	Run	3.63 S Anr 4		int 8 6	-	Job Refer			Jun 30 10-	1 OF	2 Page: 1	
-	-1-0-0 1-0-0	8-10-	5	<u>12-5-2</u> 3-6-12		<u>18-3-9</u> 5-10-8			/w7s8kF/			370Hq3NSgF	PqnL8w3u		WrCDoi7J		47-8-8 6-8-8	
11-10-0	5x6 = 3 4x12 II			4 22 33 3x6= ATTACH TO EACH 22 33 x6= NAIS TO FOR A NE	3x6 = 5 5 7/16* OSB FACE OF ROWS, 2 BE DRIV BE DRIVET 2* O.C.	21 20 19 3x6= 3x6= GUSSET (7/16 TRUSS WITH X 4'S - 3 ROW EN FROM BOT SPACING IN E	1" X 24" 0 37 6= 3" RATED SHI (0.131" X 2.5" VS, 2 X 6"S AN H FACES. ST CACH COVER	MIN.) NAILS D LARGER - AGGER SPA ED TRUSS N	PER THE 4 ROWS: CING FRO MEMBER.	E FOLLC	ED @ 4" O.C. ONT TO BAC	3x6= SCHEDULE: K FACE ID DISTANCE		■ 1 15 4x6= 2x4	 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	:4 u :4 u	24 13 2x4 = 2x4 = 2x4 = 3x8 =	0-5
Scale = 1:83.2	 	<u>8-10-</u> 8-10-			<u>5-5-12</u> 6-7-7		0-8-14 5-3-2	+	<u>28-11-1:</u> 8-2-14			<u> </u>			10-7-7 3-1-7	<u>44-0-9</u> 3-5-1	9 47-8-8 3-7-15	
Plate Offsets (2	X, Y): [2:0-8-3		-		-										-		2	
	2x4 SP No.1 2x4 SP No.2 2x4 SP No.3 12-11,23-24, 12-10:2x4 SI Left 2x8 SP I Structural wo 3-10-0 oc pur Rigid ceiling bracing, Ex 8-10-1 oc br. 1 Row at min 3 Rows at 1/ (size) 2= Max Horiz 2= Max Uplift 2= Max Grav 2=	*Excep *Excep 8-18,9-' > No.1 DSS - 2 bod sheat ritins, eat thins (5-4 directly cept: acing: 2 dpt 4 pts =0-3-8, 1 =279 (LC =-87 (LC =-87 (LC =-11) (um Com	t* 16-12:2x: t* 17:2x4 SP f 2-5-0 athing direct xcept end v -14 max.): ; applied or -22. 11-12, 23-2 9-17, 7-20 10-12 12=0-3-8, 2i C 15) ; 16), 12=-8 C 54), 12=1 (LC 45) ppression/M	SP SS 4 SP No.1 No.2, ttly applied rerticals, ar 8-10. 10-0-0 oc 24, 9-15, 8- 0=0-3-8 8 (LC 13) 704 (LC 38 Jaximum	W or 1) Id 2) 18, 3)	this desigr Wind: ASC Vasd=91n II; Exp B; I and C-C E exposed ; members Lumber D POL=1.15 snow); Ps DOL=1.15 Exp B; Fu sufface Roof desig slope.	10-24=-1 23-25=-1 9-15=-54 8-17=0/6 5-20=-62 14-25=-1 ed roof live	1/892, 10-2 551/222, 1 20/7, 25-2(8/152, 8-1) 11, 4-22= 0/150, 7-2(24/19, 13-2 loads have ult=115mpf =6.0psf; BC/ XWFRS (en zone; canti I left and ri & MWFRS ate grip DC =1.00); Pf= in. roof snc =1.00) see =1.10; Uno ad has been	0.90 0.91 23=-45/' 2-24=-1 6=-120/7 8=-701/2 402/193 0=-1562 26=-31/2 e been cc n (3-secc CDL=6.0 nvelope) lever lef ight exp i for reac DL=1.33 sf (roof I =20.0 ps =20.0 ps =0.0 structe h load ca bstructe n reduce	727/2 7, 24-2 2, 9-17 , 5-22= 701, 7 48 onside pond gu psf; h= exteri t and r ssed;C titions s ive loa f (flat r psf LL ses; C d slipp ed to a	LL) -0. CT) -0. CT) -0. CT) 0. CT) 0. (CT)	56 13-14 06 12 10) Be cap of si psi 11) Pro be 2 a 12) Th Intu R8 13) Gr. or 13) Gr. or 14) Inti Control Intu R8 13) Gr. or 10) De 10) D	bacity of 565 psi, wide me aring pla nd 88 lb s truss is ernationa 02.10.2 is aphical p he orien tom cho he LOAI he truss CASE(S ead + Sr crease= niform L. Vert: 1-	565 ps Joint 12 schanic: te capa uplift a s desig al Resic and refe ourlin re tation of rd. D CASE are no c) Star now (ba 1.00 oads (II 8=-52,	med to b i, Joint 2/ 2 SP No. al connect ble of wi ti joint 12 ned in ac dential Co erenced presenta of the pur E(S) sect ted as fro ndard alanced): b/ft) 8-10=-60	: 342 lb e: Joint : 0 SP No 1 crushin ction (by thstandin ccordanc ode sect standard tion doe fin along ion, loac ont (F) o Lumber	GRIP 244/190 FT = 20% 2 SP No.2 crushing .2 crushing capacity ng capacity of 565 others) of truss to ng 87 lb uplift at join we with the 2015 ions R502.11.1 and d ANSI/TPI 1. is not depict the size g the top and/or ds applied to the fact r back (B). Increase=1.15, Pla =-52, 12-27=-20, (4-26=-40 (F)	y nt I e
BOT CHORD	5-7=-191/21 9-10=-1073/ 11-12=-304/ 2-22=-508/7 18-20=-303/ 15-17=-231/ 13-14=-171/9	264, 10- 139 47, 20-2 569, 17- 1252, 14	-11=-178/18 22=-340/394 -18=-251/99 4-15=-171/9	31, 4, 92, 903,	92, 5) 6) 7) 8) 9)	design. This truss load of 12 overhangs Provide ad This truss chord live * This truss on the bot 3-06-00 ta	has been c .0 psf or 2.0 s non-conct dequate dra has been c load nonco is has been tom chord i ill by 2-00-0 any other r	lesigned fo 00 times fla urrent with inage to pl lesigned fo ncurrent w designed f n all areas 0 wide will	or greate at roof lo other live revent w or a 10.0 vith any of for a live where a fit betwo	r of mi ad of 2 e loads vater po psf bc other li e load o a recta een th	in roof live 20.0 psf on s. onding. ottom ve loads. of 20.0psf ngle e bottom		9		A CONTRACTOR		22 EERER III	
	IING - Verify design	noromoto							170 5/	0/2020						ENGINEER	1002.02.15	

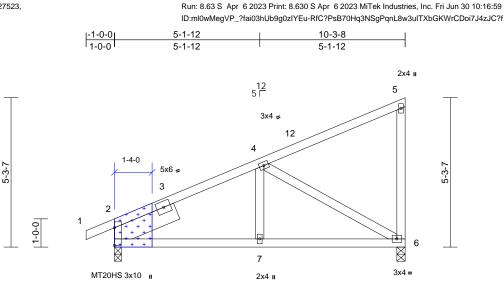
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy; Lot 26 PC		
SP	SP01	Monopitch	11	1	Job Reference (optional)	2 OF 2	159293561

Builders FirstSource (Apex, NC), Apex, NC - 27523,

DAMAGED PLATE AT JOINT 2





Scale = 1:40.8

Plate Offsets (X, Y): [2:Edge,0-0-0]

Loading TCLL (roof) Snow (Ps/Pf) TCDL BCLL BCDL	(psf) 20.0 15.8/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/	TPI2014	CSI TC BC WB Matrix-MS	0.35 0.25 0.29	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 6-7 6-7 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 60 lb	GRIP 244/190 187/143 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 SLIDER Left 2x8 SP DSS 2-5-0 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-0, 6=0-3-8 Max Horiz 2=158 (LC 15) Max Upit 2=-28 (LC 16), 6=-49 (LC 16) Max Grav 2=469 (LC 2), 6=423 (LC 23) FORCES (lb) - Maximum Compression/Maximum				 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 6) All plates are MT20 plates unless otherwise indicated. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 49 lb uplift at joint 6. 11) This truss is designed in accordance with the 2015 									
TOP CHORD BOT CHORD	5-6=-156/82				International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard								
WEBS	4-7=0/208, 4-6=-461	/169											
NOTES												mm	UIII.
Vasd=91m II; Exp B; E and C-C E exposed ; e members a	E 7-10; Vult=115mph ph; TCDL=6.0psf; BC inclosed; MWFRS (er xterior (2) zone; cantil end vertical left and rig and forces & MWFRS DL=1.60 plate grip DC	e							6	À	ORTH CA	Man	
 TCLL: ASC DOL=1.15 snow); Ps= DOL=1.00) Unobstruct Roof desig slope. 	E 7-10; Pr=20.0 psf (Plate DOL=1.00); Pf= :15.8 psf (roof snow: I); Category II; Exp B; I ed slippery surface n snow load has beer d snow loads have be						111111	A A A A A A A A A A A A A A A A A A A	SEA 0363	22			

- Unobstructed slippery surface 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.

July 3,2023

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