

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0523-2757 Southern Touch/ 22 West Preserve/ Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I58612754 thru I58612773

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

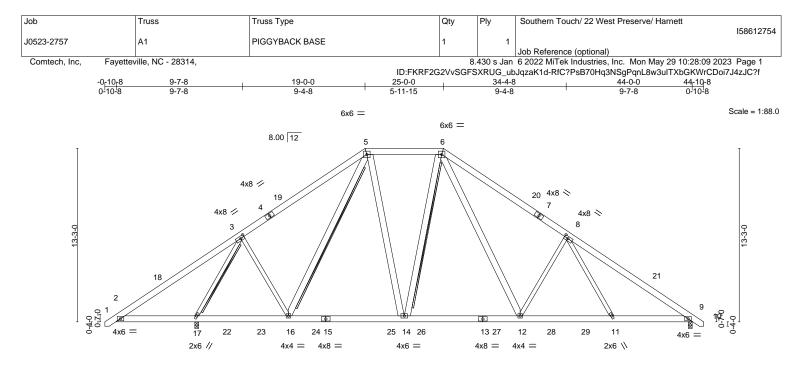
North Carolina COA: C-0844



Johnson, Andrew

May 30,2023

**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.



		6-1-12	13-1-12		22-0-0		30-10-4	_	37-10-4	44-0-0	4
		6-1-12	7-0-0		8-10-4	1	8-10-4		7-0-0	6-1-12	1
Plate OII	sets (X,Y)	[3:0-3-6,0-2-1], [8:0-3-6,	0-2-0]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.10 12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17 12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05 9	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	k-S	Wind(LL)	0.04 12	>999	240	Weight: 394 lb	FT = 20%
LUMBER	<u>}-</u>					BRACING	-				

LUMBER-		BRACING-		
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing	directly applied or 4-7-4 oc purlins, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (6-0-0 ma	x.): 5-6.
WEBS	2x6 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applie	ed or 10-0-0 oc bracing, Except:
	3-17,3-16,8-12,8-11: 2x4 SP No.2		6-0-0 oc bracing: 2-17.	
		WEBS	T-Brace:	2x4 SPF No.2 - 3-17, 6-14
				2x6 SPE No 2 - 5-16

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

- REACTIONS. (size) 17=0-3-8, 9=0-3-8 Max Horz 17=-316(LC 10) Max Uplift 17=-107(LC 12), 9=-93(LC 13) Max Grav 17=2255(LC 2), 9=1722(LC 20)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-406/690, 3-5=-1437/385, 5-6=-1265/435, 6-8=-2194/565, 8-9=-2621/429
- BOT CHORD 2-17=-460/457, 16-17=-180/960, 14-16=-13/1234, 12-14=0/1320, 11-12=-220/1919, 9-11=-192/2035
- WEBS 3-17=-2289/707, 3-16=-21/658, 8-12=-735/361, 8-11=0/310, 5-16=-283/132, 6-14=-277/181, 5-14=-69/680, 6-12=-230/1021

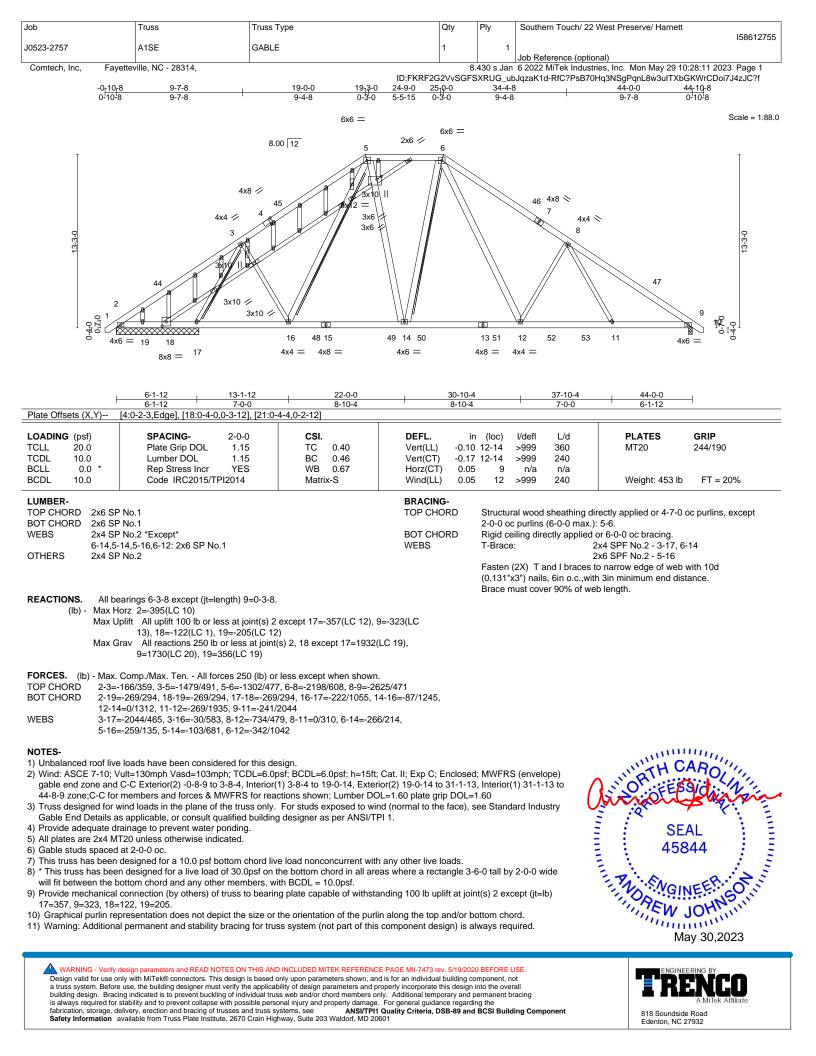
### NOTES-

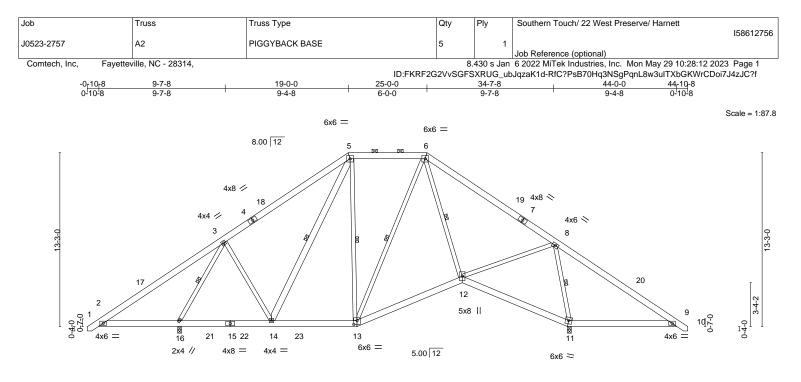
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-0-14, Exterior(2) 19-0-14 to 31-1-13, Interior(1) 31-1-13 to 44-8-9 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 17 and 93 lb uplift at joint 9.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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 sand truss system. See **MSIVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







⊢	<u>6-0-0 6-1<sub>11</sub>12 13-1-12</u> 6-0-0 0-1 <sup>1</sup> 12 7-0-0	<u>19-0-0 19-8-0</u> 5-10-4 0-8-0	<u>27-8-4</u> 8-0-4	<u>35-8-8</u> 8-0-4	35-10-4 0-1-12	44-0-0 8-1-12	
Plate Offsets (X,Y)	[13:0-3-0,0-3-8]	5-10-4 0-0-0	0-0-4	0-0-4	0-1-12	0-1-12	
OADING (psf)   "CLL 20.0   "CDL 10.0   SCLL 0.0   "GCLL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.50 BC 0.21 WB 0.41 Matrix-S	Vert(CT) -( Horz(CT) (	in (loc) l/defl 0.04 12-13 >999 0.10 12-13 >999 0.03 11 n/a 0.02 13-14 >999	240 n/a	PLATES MT20 Weight: 358 lb	<b>GRIP</b> 244/190 FT = 20%
OT CHORD 2x6 S VEBS 2x4 S	P No.1 P No.1 P No.2 *Except* 2x6 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc purlin	is (6-0-0 max.): irectly applied c	rectly applied or 6-0-0 5-6. or 6-0-0 oc bracing. -16, 6-12, 8-11, 5-14,	
Max I	ze) 11=0-3-8, 16=0-3-8 Horz 16=-316(LC 10) Jplift 11=-118(LC 13), 16=-111(LC 12) Grav 11=1938(LC 1), 16=1684(LC 2)						
OP CHORD 2-3= BOT CHORD 2-16	. Comp./Max. Ten All forces 250 (lb) o -408/689, 3-5=-895/254, 5-6=-700/287, i=-461/458, 14-16=-210/657, 13-14=-63/	6-8=-873/97, 8-9=-478/752	2				

9-11=-497/510 WEBS 3-16=-1653/575, 8-12=-6/867, 6-12=-69/440, 3-14=-38/368, 8-11=-1658/536

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-0-13, Exterior(2) 19-0-13 to 31-1-13, Interior(1) 31-1-13 to 44-8-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

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 30.0psf 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, with BCDL = 10.0psf.

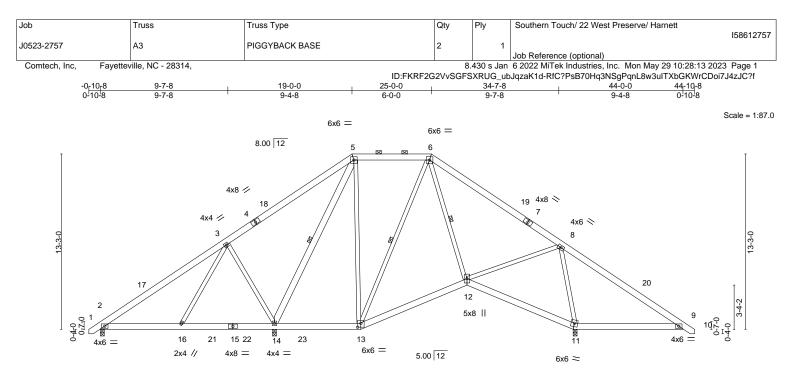
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=118, 16=111.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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818 Soundside Road Edenton, NC 27932



⊢ Plate Offsets (X.Y)	6-1-12 13-1-12 6-1-12 7-0-0 [13:0-3-0.0-3-8]	19-0-0 19-8 <sub>0</sub> 5-10-4 0-8-0	27-8-4 8-0-4		35-8-8 8-0-4	35-10-4 0-1 <sup>1</sup> -12	44-0-0 8-1-12	1
		001	DEEL	in (1)	1/-1-41	1.74		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL)	-0.04 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	-0.09 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.02 2-16	>999	240	Weight: 358 lb	FT = 20%

LUMBER-		BRACING-		
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing	directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (6-0-0 max	(.): 5-6.
WEBS	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied	d or 6-0-0 oc bracing.
	5-14: 2x6 SP No.1	WEBS	1 Row at midpt	6-12, 5-14, 6-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 14=0-3-8 Max Horz 2=-316(LC 10) Max Uplift 2=-66(LC 8), 11=-131(LC 13), 14=-209(LC 9) Max Grav 2=493(LC 23), 11=1683(LC 1), 14=1535(LC 2)

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

- TOP CHORD 2-3=-471/240, 3-5=-135/350, 5-6=-386/206, 6-8=-507/50, 8-9=-478/752
- BOT CHORD 2-16=-183/343, 14-16=-132/269, 13-14=-112/315, 12-13=-112/446, 11-12=-393/506, 9-11=-497/510
- WEBS 3-16=-293/330, 8-12=0/582, 6-12=-100/447, 3-14=-738/529, 8-11=-1387/461,
  - 5-14=-838/146, 6-13=-252/11, 5-13=-5/355

NOTES-

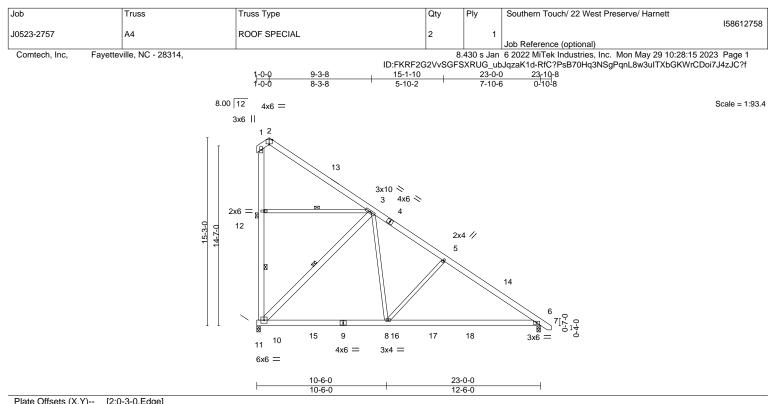
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-0-13, Exterior(2) 19-0-13 to 31-1-13, Interior(1) 31-1-13 to 44-8-9 zone; cantilever right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=131, 14=209.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	-0.13	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT)	-0.28	6-8	>970	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.03	6-8	>999	240	Weight: 219 lb	FT = 20%
	P No.1 P No.2 *Except* -10: 2x6 SP No.1		BRACING- TOP CHOF BOT CHOF WEBS JOINTS	RD	except Rigid c 1 Row	end verti	cals. ectly applied	rectly applied or 6-0-0 o or 10-0-0 oc bracing. 10-12, 3-10, 3-12	oc purlins,
Max H Max L	e) 10=0-3-6, 0=0-3-6 forz 10=-482(LC 13) Jplift 10=-236(LC 13) Grav 10=1177(LC 20), 6=1071(LC 20)								

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

TOP CHORD 3-5=-1052/0, 5-6=-1298/0, 10-12=-259/166, 1-12=-259/166

BOT CHORD 8-10=0/743, 6-8=0/987

WEBS 5-8=-424/234, 3-10=-1116/335, 3-8=-26/850

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

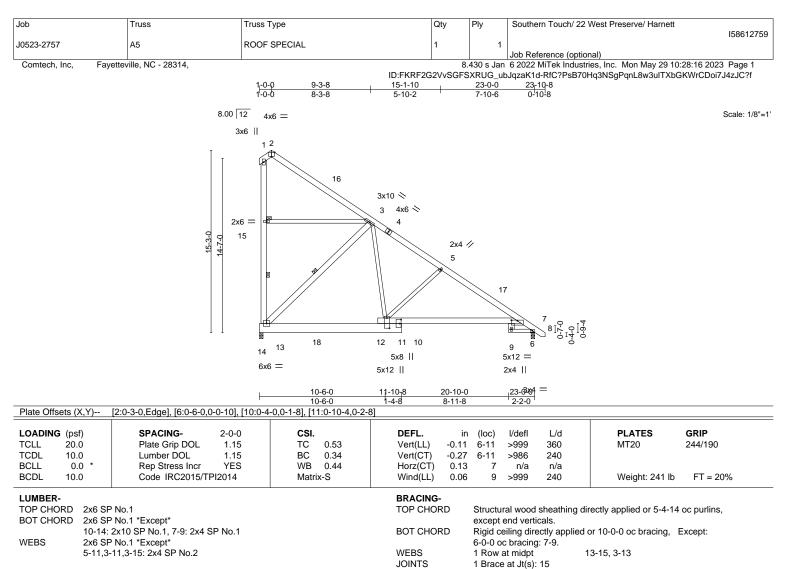
4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=236.



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REACTIONS. (size) 7=0-3-8, 13=0-3-8 Max Horz 13=-482(LC 13) Max Uplift 13=-232(LC 13) Max Grav 7=996(LC 20), 13=1128(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 3-5=-1070/0, 5-6=-1331/0, 6-7=-629/36, 13-15=-258/165, 1-15=-258/166

BOT CHORD 11-13=0/809, 6-11=0/1074 WEBS 5-11=-480/199, 3-13=-1123/302, 3-11=0/867

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) \* This truss has been designed for a live load of 30.0psf 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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=232.



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Job	Truss	Truss Type	Qty	Ply	Southern Touch/ 22 West Pr	reserve/ Harnett	158612760
J0523-2757	A6	ROOF SPECIAL	1	2	Ich Reference (optional)		100012100
Comtech, Inc, Fay	vetteville, NC - 28314,			8.430 s Jan	Job Reference (optional) 6 2022 MiTek Industries, Inc.		
		1 <mark>-0-0 9-3-8 15-1</mark>	-10	23-0-0		gPqnL8w3ulTXbGKV	VrCDoi7J4zJC?f
	_		)-2	7-10-6	0-10-8		
	8.00 1	2 4x6 = 4					Scale = 1:91.0
		1 <sup>2</sup>					
	I						
		16					
		₩ 3x10 ₩					
	2x6		*				
			Ð				
			2x4	4 //			
			X	\			
			// `	× ×	17		
					×		
					8 14 0 6 7 8 14 0 6		
	1 1	14 13 18 12 11	10		<u>5×8    8</u> 1 16 14 16		
		6x6 = 5x8	II		3x4 =		
		5x12    10-6-0 11-10-8	20-10	)-0	2x4    _23-0-0		
Plate Offsets (X,Y)	[2:0-3-0 Edge] [6:0-2-12 0-1-1	<u>10-6-0</u> 1-4-8 2], [6:0-1-9,0-5-2], [10:0-4-0,0-1-8], [11:0-10	8-11		$\frac{2-2-0}{3x4}$		
				in (loo)		PLATES G	iRIP
LOADING (psf) TCLL 20.0	SPACING- 3-6 Plate Grip DOL 1.1	5 TC 0.54 Ve	rt(LL) -0.1	in (loc) 0 6-11	>999 360		44/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.1 Rep Stress Incr N		rt(CT) -0.2 rz(CT) 0.1	4 6-11 1 7	>999 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		nd(LL) 0.0			Weight: 483 lb	FT = 20%
LUMBER-			ACING-	0.0.0			
	P No.1 *Except*		P CHORD	(Switche	c purlins (6-0-0 max.), excepted from sheeted: Spacing > 3	2-8-0).	
	2x10 SP No.1, 7-9: 2x4 SP No. P No.1 *Except*	1 BO	T CHORD		iling directly applied or 10-0 bracing: 7-9.	-0 oc bracing, Exc	cept:
5-11,3 WEDGE	-11,3-15: 2x4 SP No.2	WE JOI	BS NTS	1 Row a 1 Brace	at midpt 13-15 at Jt(s): 2, 1, 15		
Right: 2x4 SP No.3				1 Didoo	ut ut(0). 2, 1, 10		
	e) 7=0-3-8, 13=0-3-8						
	lorz 13=-844(LC 13) Jplift 13=-406(LC 13)						
Max G	Grav 7=1743(LC 20), 13=1973(I	.C 20)					
		50 (lb) or less except when shown.	54/000				
1-15	5=-452/290	372/0, 5-6=-2330/0, 6-7=-1101/63, 13-15=-4	151/290,				
	3=0/1415, 6-11=0/1879 =-841/349, 3-13=-1966/528, 3-1	1=0/1517					
NOTES-							
1) 2-ply truss to be cor	nnected together with 10d (0.13						
	ted as follows: 2x6 - 2 rows stag nected as follows: 2x10 - 2 rows	staggered at 0-9-0 oc, 2x6 - 2 rows stagger	ed at 0-9-0 oc	c, 2x4 - 1 ro	ow at 0-9-0	mmm	111.
oc. Webs connected as	follows: 2x4 - 1 row at 0-9-0 oc	, 2x6 - 2 rows staggered at 0-9-0 oc.				TH CA	ROUT
		except if noted as front (F) or back (B) face ly loads noted as (F) or (B), unless otherwis		CASE(S) s	ection. Ply to	O' FEBSI	QAL N'
3) Unbalanced roof live	e loads have been considered f	or this design.					Y.M.
and C-C Exterior(2)	0-4-4 to 5-4-13, Interior(1) 5-4-	DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; E: I3 to 23-8-9 zone;C-C for members and force			ons shown;	SEAL	
	plate grip DOL=1.60 designed for a 10.0 psf bottom	chord live load nonconcurrent with any othe	r live loads.		E	4584	
6) * This truss has bee		Opsf on the bottom chord in all areas where		-6-0 tall by	2-0-0 wide		1 J. E
7) Provide mechanical		to bearing plate capable of withstanding 100	) lb uplift at jo	int(s) exce	S (envelope) ons shown; 2-0-0 wide pt (jt=lb)	V. SNGINE	ERIO
<ul><li>13=406.</li><li>8) Graphical purlin rep</li></ul>	resentation does not depict the	size or the orientation of the purlin along the	top and/or bo	ottom chore	d	NEW JC	HNSII
						The W JC	111111
							30,2023

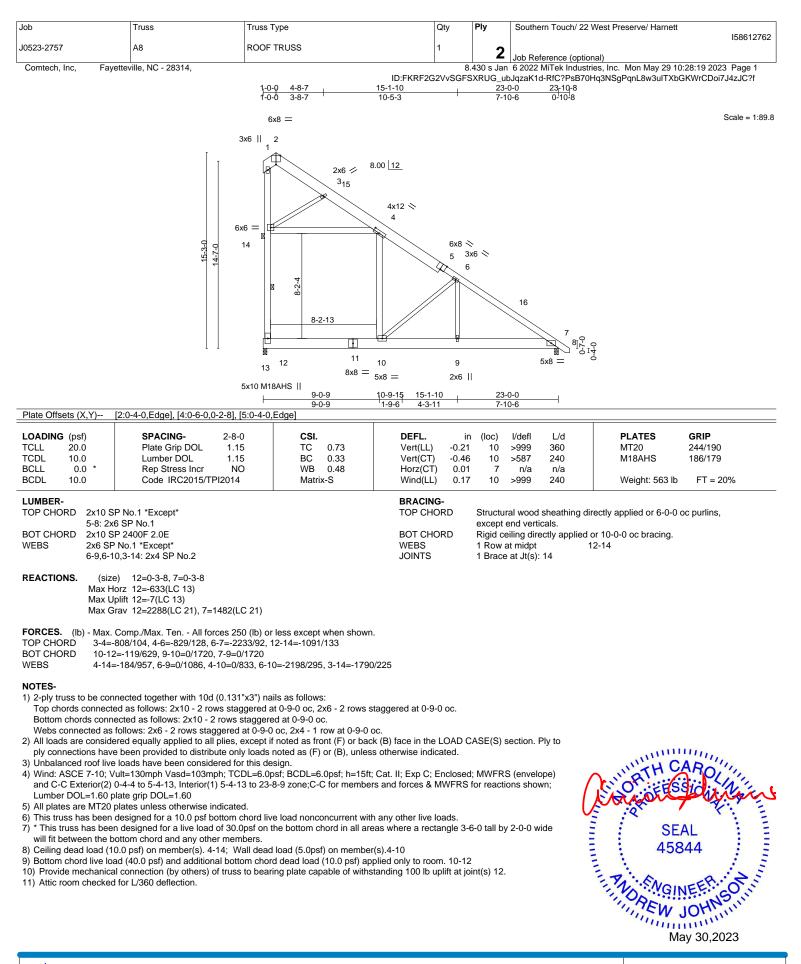
ENGINEERING BY EREENCO A MITEK Affiliate B18 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Southern Touch/ 22 West Pr	eserve/ Harnett	158612761
J0523-2757	A7	ROOF SPECIAL	1	2	lob Reference (antional)		130012701
Comtech, Inc, Fay	yetteville, NC - 28314,			.430 s Jan	Job Reference (optional) 6 2022 MiTek Industries, Inc.		
		1-0-0 9-3-8 1	5-1-10	23-0-0		PqnL8w3ulTXbGKWr	CDoi7J4zJC?f
	_		5-10-2	7-10-6	0 <sup>1</sup> 10 <sup>1</sup> 8		
	8.00	$\frac{2}{4 \times 6} = \frac{4 \times 6}{100} = \frac{1}{100}$					Scale = 1:91.0
	J.	1 2					
	I						
		16					
		3x10 ·	*				
	2x		4x6 ≫ 4				
			2x4	11			
		×	<u> </u>				
					17		
					×		
					5 <del>%8</del> 8 16 0 6		
	1 1		11 10				
		14 $13$ $56x6 = 5$	x8		3x4 =		
		5x12 10-6-0 11-1		-0	2x4    _23-0-0		
Plate Offsets (X,Y)	[2:0.2.0 Edge] [6:0.2.12.0.1.1	<u>10-6-0</u> 1-4 2], [6:0-1-9,0-5-2], [10:0-4-0,0-1-8], [11:0	-8 8-11-		$\frac{22000}{2-2-0}$		
				<i>a</i> ,			
LOADING (psf) TCLL 20.0	SPACING- 3-6 Plate Grip DOL 1.			n (loc) ) 6-11		PLATES GR MT20 244	4/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1. Rep Stress Incr N		Vert(CT) -0.24 Horz(CT) 0.11	6-11 7	>999 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Wind(LL) 0.05			Weight: 483 lb F	T = 20%
LUMBER-			BRACING-				
TOP CHORD 2x6 SF BOT CHORD 2x6 SF	P No.1 P No.1 *Except*		TOP CHORD		c purlins (6-0-0 max.), excep ed from sheeted: Spacing > 2		
	: 2x10 SP No.1, 7-9: 2x4 SP No P No.1 *Except*	1	BOT CHORD		iling directly applied or 10-0- bracing: 7-9.	0 oc bracing, Exce	pt:
	3-11,3-15: 2x4 SP No.2		WEBS JOINTS	1 Row a			
Right: 2x4 SP No.3			JOINTS	I Diace	at 51(5). 2, 1, 15		
	ze) 7=0-3-8, 13=0-3-8						
	Horz 13=-844(LC 13) Jplift 13=-406(LC 13)						
	Grav 7=1743(LC 20), 13=1973(	_C 20)					
		50 (lb) or less except when shown.					
	:-335/222, 2-3=-377/108, 3-5=-1 5=-452/290	872/0, 5-6=-2330/0, 6-7=-1101/63, 13-15	5=-451/290,				
	3=0/1415, 6-11=0/1879 =-841/349, 3-13=-1966/528, 3-1	1=0/1517					
NOTES-	011/010, 010 1000,020, 01						
1) 2-ply truss to be cor	nnected together with 10d (0.13						
	ted as follows: 2x6 - 2 rows stag nected as follows: 2x10 - 2 rows	gered at 0-9-0 oc. staggered at 0-9-0 oc, 2x6 - 2 rows stag	gered at 0-9-0 oc	, 2x4 - 1 ro	ow at 0-9-0	mun	<b>1</b> 1
oc. Webs connected as	s follows: 2x4 - 1 row at 0-9-0 or	, 2x6 - 2 rows staggered at 0-9-0 oc.				"TH CAR	0/11
2) All loads are consid	lered equally applied to all plies,	except if noted as front (F) or back (B) failed as (F) or (B), unless other		CASE(S) s	ection. Ply to	OFEFAIC	Nº Nº
3) Unbalanced roof live	e loads have been considered f	or this design.			ETA	marfall	initia
		CDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II 13 to 23-8-9 zone;C-C for members and			S (envelope)	SEAL	1 E
	plate grip DOL=1.60	chord live load nonconcurrent with any c	other live loads			45844	
6) * This truss has bee	en designed for a live load of 30	Opsf on the bottom chord in all areas wh		6-0 tall by	2-0-0 wide		1.3
7) Provide mechanical	bottom chord and any other men I connection (by others) of truss	nbers, with BCDL = 10.0psf. to bearing plate capable of withstanding	100 lb uplift at joi	nt(s) exce	2-0-0 wide pt (jt=lb)	NOREW JO	RIAN
13=406. 8) Graphical purlin rep	presentation does not depict the	size or the orientation of the purlin along	the top and/or bo	ttom chore	d.	OREGINE	INS
, , pa rop					114	WEW JO	min
						May 3	0,2023

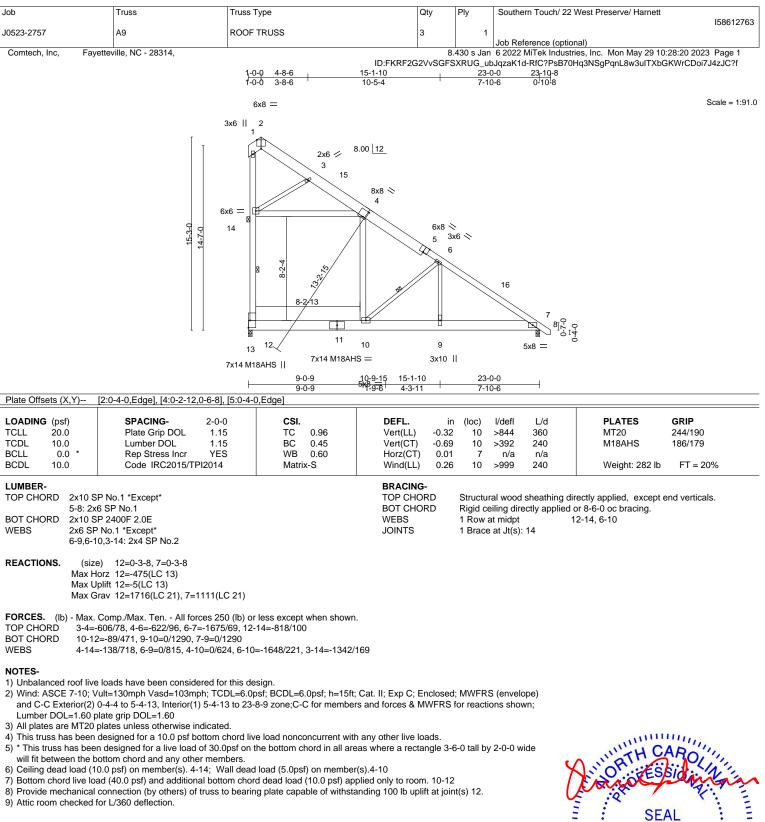


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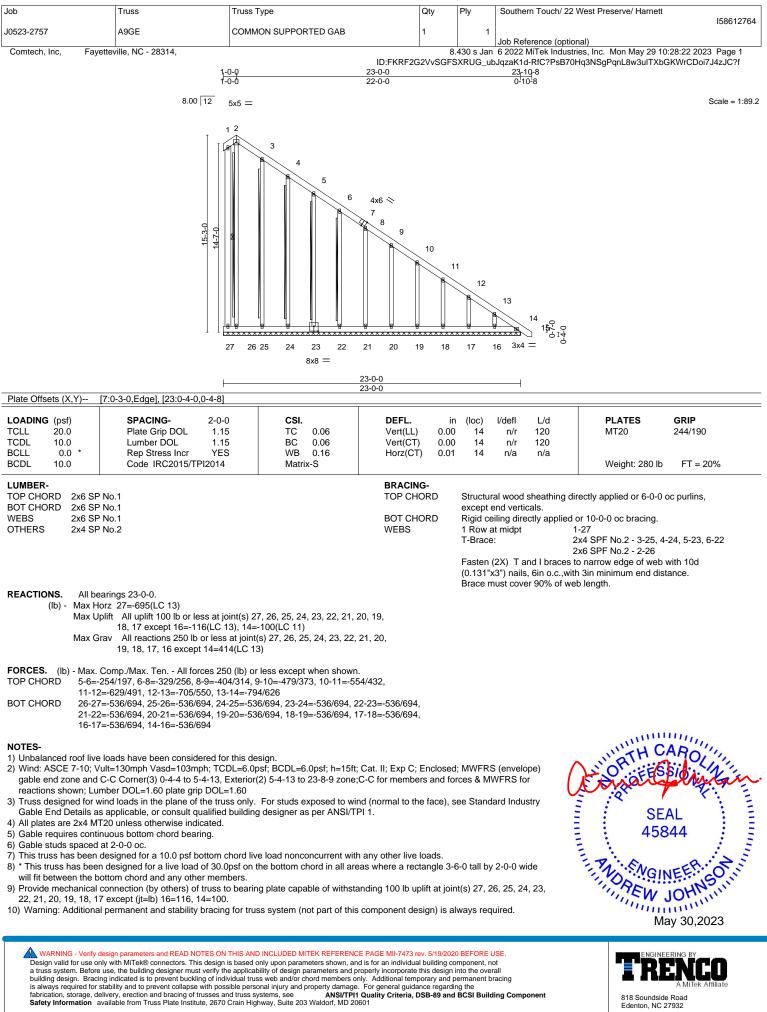
818 Soundside Road Edenton, NC 27932



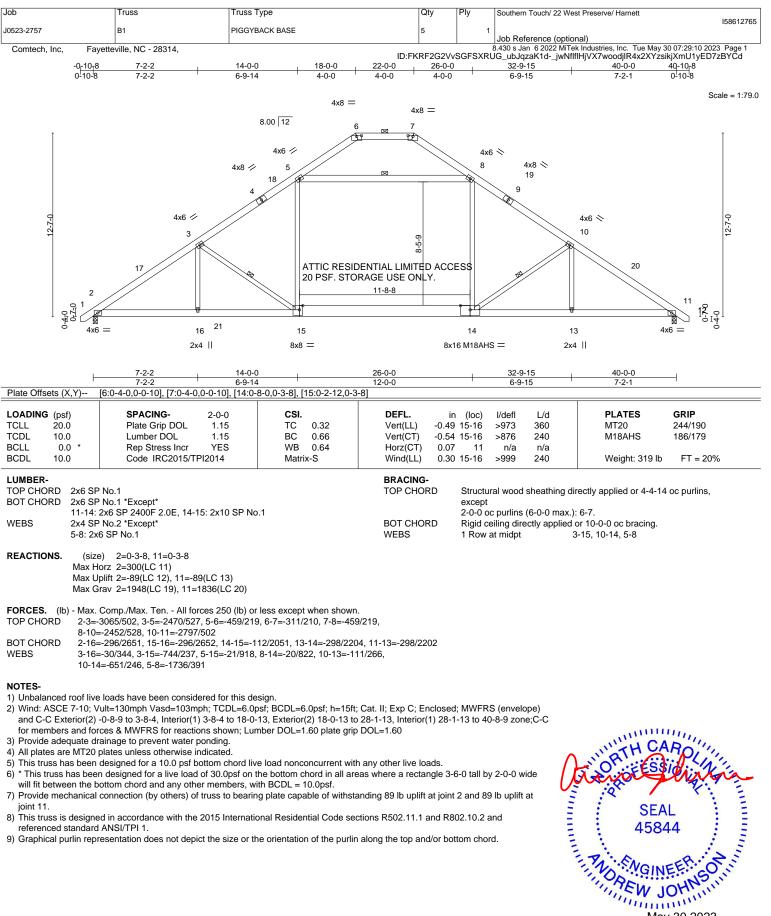


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A MiTek A 818 Soundside Road Edenton, NC 27932



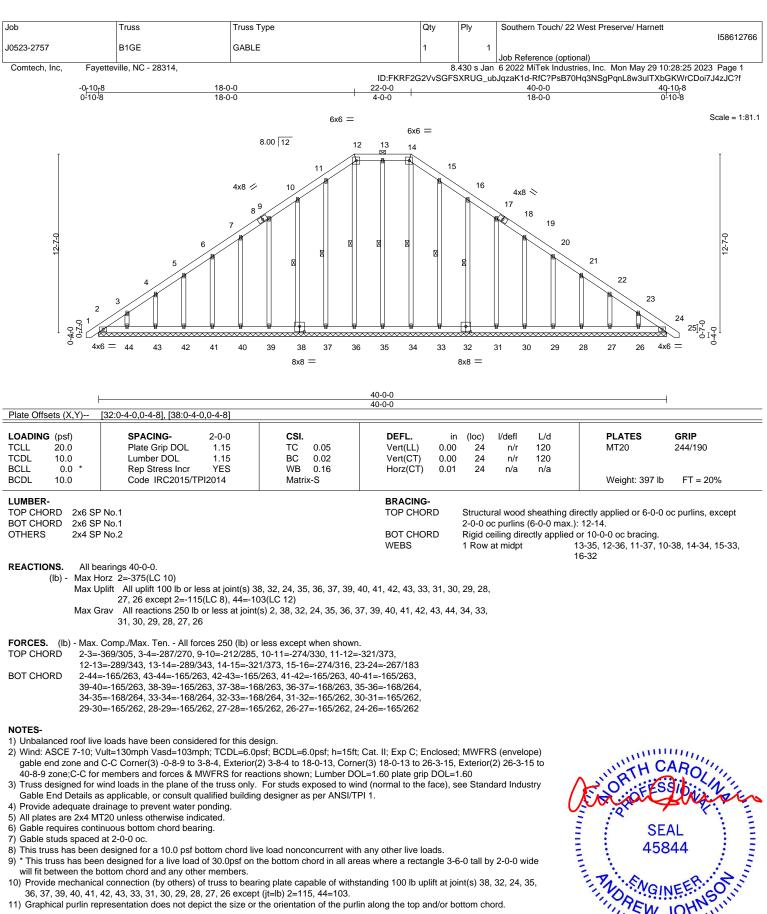
#### 818 Soundside Road Edenton, NC 27932



May 30,2023

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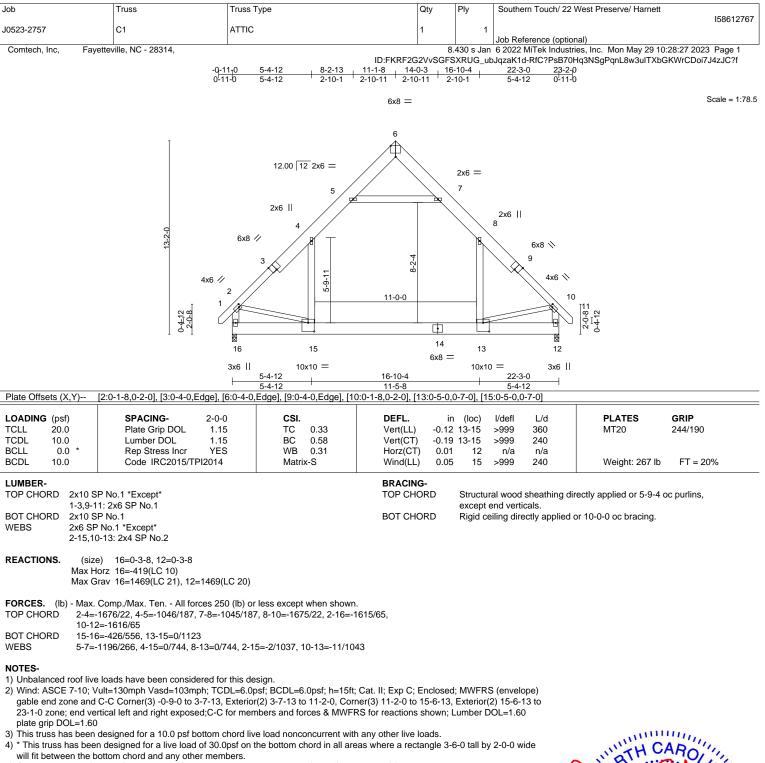
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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# 818 Soundside Road

Edenton, NC 27932

.104 minim May 30,2023



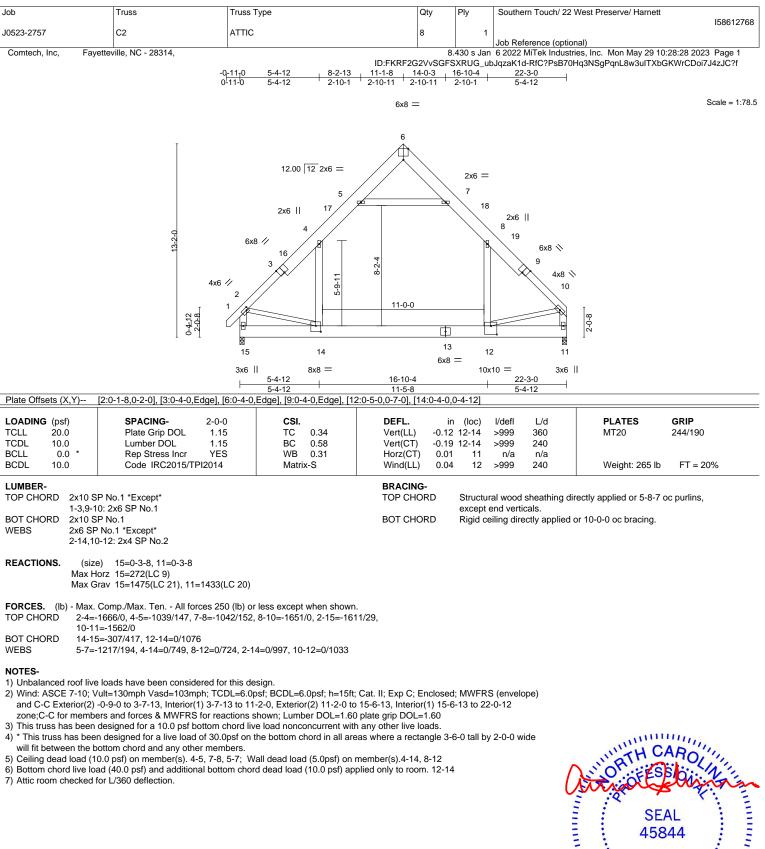
- 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15

7) Attic room checked for L/360 deflection.



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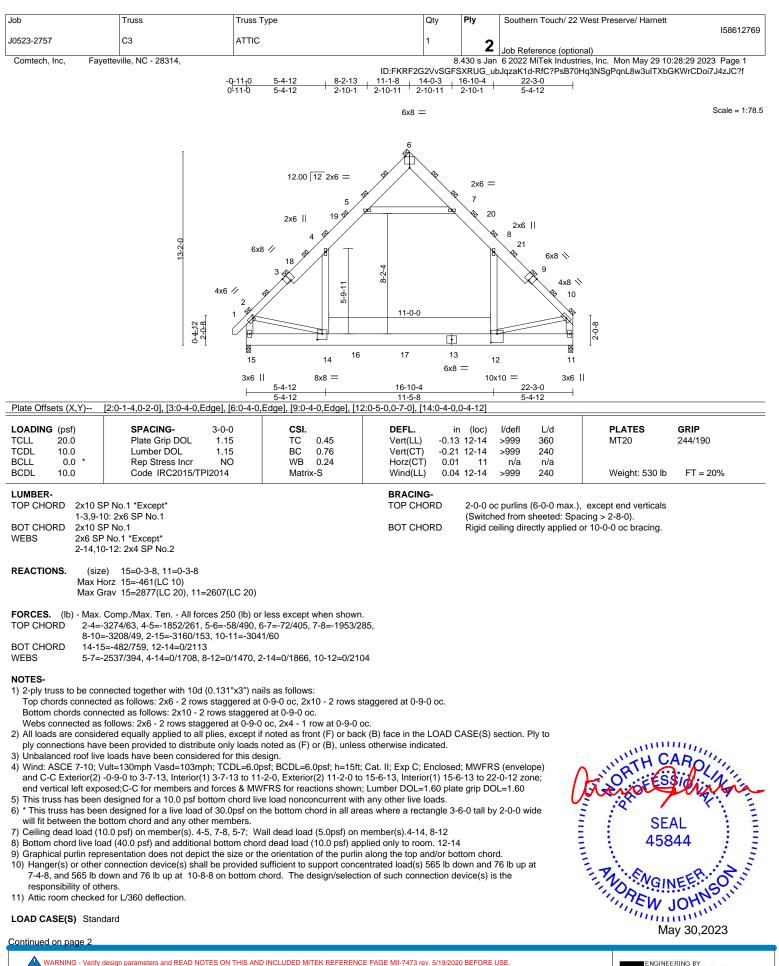






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TRENCIO AMTek Affiliate 818 Soundside Road

Edenton, NC 27932

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[	Job	Truss	Truss Type	Qty	Ply	Southern Touch/ 22 West Preserve/ Harnett
						158612769
	J0523-2757	C3	ATTIC	1	2	
					~	Job Reference (optional)
	Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Mon May 29 10:28:29 2023 Page 2
			ID:FKRF2G	2VvSGFS	XRUG_ub	JqzaK1d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 14-15--30, 12-14-

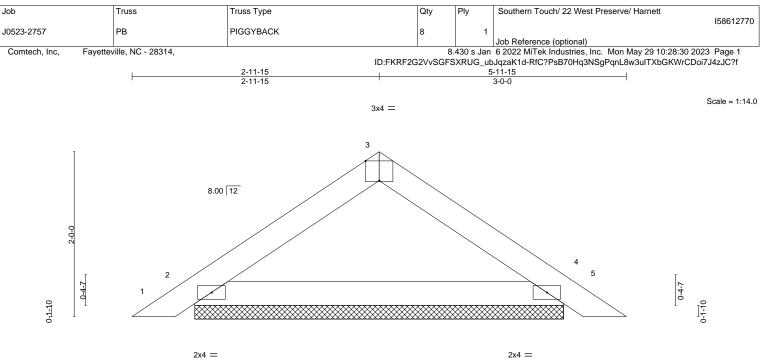
Vert: 14-15=-30, 12-14=-60, 11-12=-30, 1-2=-90, 2-4=-90, 4-5=-120, 5-6=-90, 6-7=-90, 7-8=-120, 8-10=-90, 5-7=-30 Drag: 4-14=-15, 8-12=-15

Concentrated Loads (lb)

Vert: 16=-300(B) 17=-300(B)

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		•				5-11-15						
Plate Offs	sets (X,Y)	[3:0-2-0,Edge]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	ĸ-P						Weight: 17 lb	FT = 20%
LUMBER	-					BRACING-					1	

TOP CHORD

BOT CHORD

5-11-15

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

REACTIONS. 2=4-5-11, 4=4-5-11 (size) Max Horz 2=44(LC 11) Max Uplift 2=-17(LC 12), 4=-17(LC 13) Max Grav 2=209(LC 1), 4=209(LC 1)

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

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 30.0psf 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) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

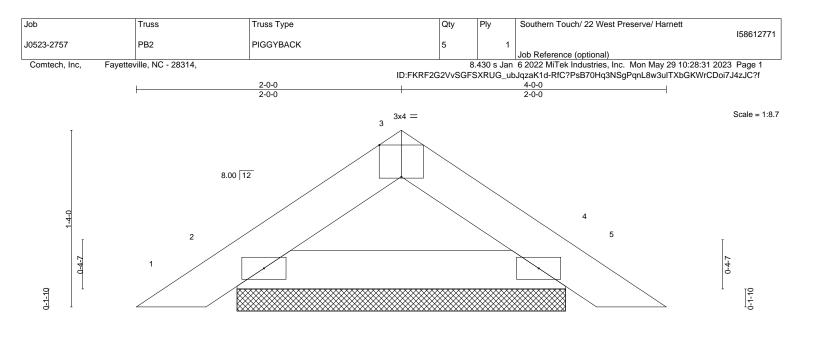


Structural wood sheathing directly applied or 5-11-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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2x4 =

2x4 =

					<u>4-0-0</u> 4-0-0						
Plate Offsets (X,Y)	[3:0-2-0,Edge]				4-0-0						
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 11 lb	FT = 20%

TOP CHORD

BOT CHORD

## LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

REACTIONS. 2=2-5-12, 4=2-5-12 (size) Max Horz 2=-28(LC 10) Max Uplift 2=-13(LC 12), 4=-13(LC 13) Max Grav 2=129(LC 1), 4=129(LC 1)

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

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 30.0psf 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) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

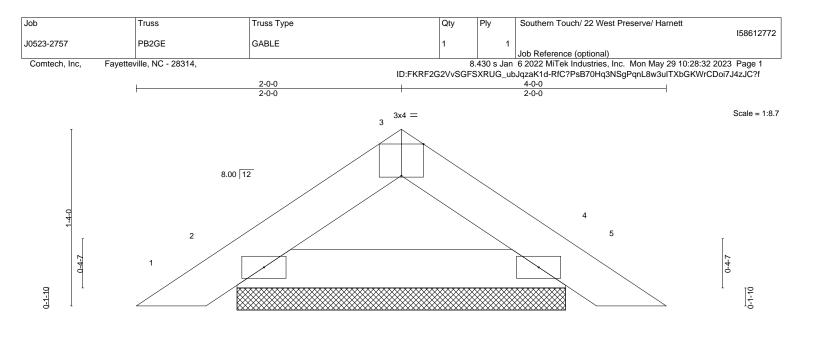


Structural wood sheathing directly applied or 4-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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2x4 =

2x4 =

Structural wood sheathing directly applied or 4-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

					<u>4-0-0</u> 4-0-0						
ate Offsets (X,Y)	[3:0-2-0,Edge]										
DADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	тс	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4	n/r	120		
CLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
CDL 10.0	Code IRC2015/T	PI2014	Matri	x-P						Weight: 11 lb	FT = 20%

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

REACTIONS. 2=2-5-12, 4=2-5-12 (size) Max Horz 2=-35(LC 10) Max Uplift 2=-34(LC 12), 4=-34(LC 13) Max Grav 2=129(LC 1), 4=129(LC 1)

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

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.

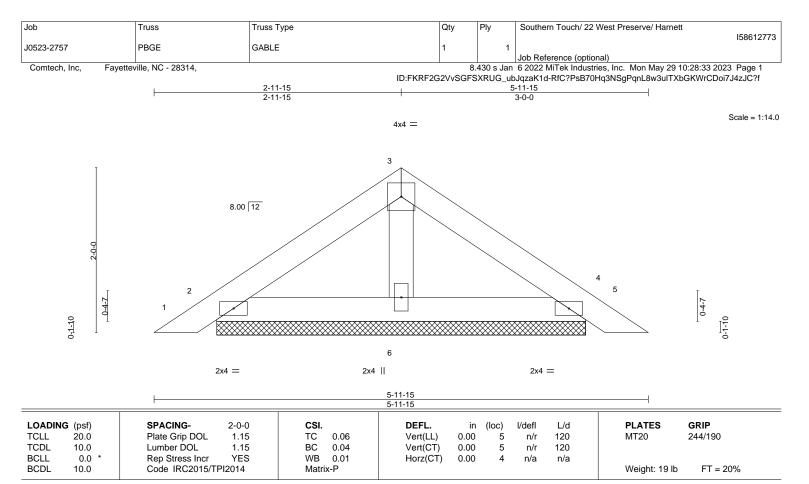
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) \* This truss has been designed for a live load of 30.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-5-11, 4=4-5-11, 6=4-5-11 Max Horz 2=55(LC 11) Max Uplift 2=-49(LC 12), 4=-56(LC 13), 6=-1(LC 12) Max Grav 2=130(LC 1), 4=130(LC 1), 6=158(LC 1)

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

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.

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

7) \* This truss has been designed for a live load of 30.0psf 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.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.

9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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