

RE: B0419-1977 Topsail C Trenco 818 Soundside Rd Edenton, NC 27932

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.1 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E12530272	a01	12/18/2018
2	E12530273	a02	12/18/2018
3	E12530274	a03	12/18/2018
4	E12530275	а04-р	12/18/2018
5	E12530276	a06	12/18/2018
6	E12530277	a07	12/18/2018
7	E12530278	a8	12/18/2018
8	E12530279	a9	12/18/2018
9	E12530280	b01	12/18/2018
10	E12530281	b02	12/18/2018
11	E12530282	b03	12/18/2018
12	E12530283	b04	12/18/2018
13	E12530284	m01	12/18/2018
14	E12530285	m02	12/18/2018
15	E12530286	m03	12/18/2018
16	E12530287	ps-8	12/18/2018
17	E12530288	ps-8g	12/18/2018
18	E12530289	v01	12/18/2018

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

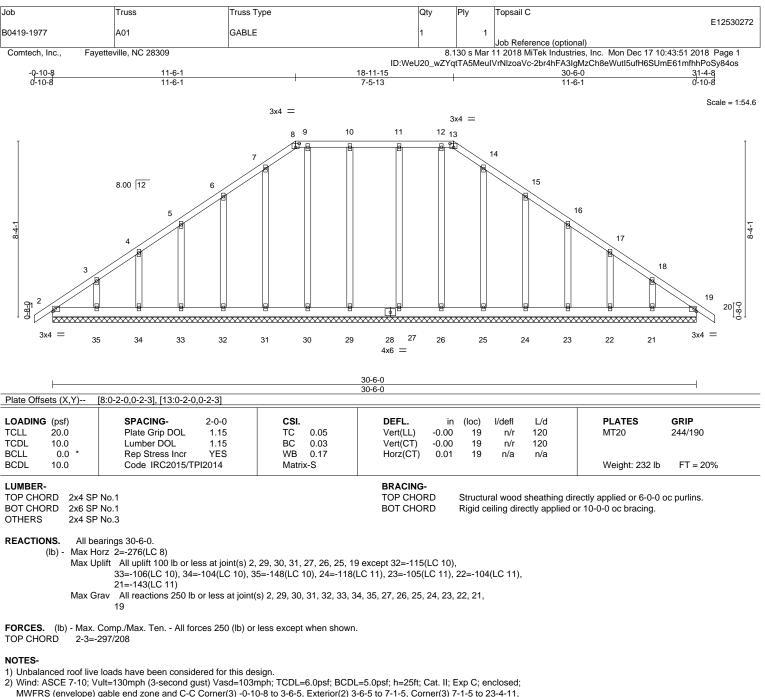
Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2019

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.





MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 7-1-5, Corner(3) 7-1-5 to 23-4-11, Exterior(2) 23-4-11 to 26-11-11 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) Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 2-0-0 oc.

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

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 30, 31, 27, 26, 25, 19 except (jt=lb) 32=115, 33=106, 34=104, 35=148, 24=118, 23=105, 22=104, 21=143.

TH CAA ORTH Vannonnun WWWWWWW SEAL 036322 GI minum December 18,2018



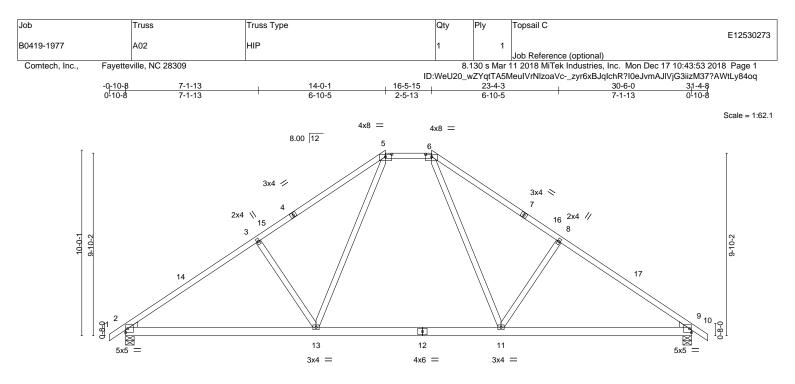


Plate Offsets (X,Y)	10-3-3 10-3-3 [5:0-4-0,0-1-9], [6:0-4-0,0-1-9]		20-2-13 9-11-11		<u>30-6-0</u> 10-3-3	_
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.56 BC 0.44 WB 0.37 Matrix-S	DEFL. ir Vert(LL) -0.18 Vert(CT) -0.26 Horz(CT) 0.03 Wind(LL) 0.17	3 9-11 >999 3 5 9-11 >999 2 3 9 n/a 1	L/d PLATES 160 MT20 140 n/a 140 Weight: 176 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.3, Rigt	P No.1 P No.3		BRACING- TOP CHORD BOT CHORD		eathing directly applied or 4-3-1: / applied or 10-0-0 oc bracing.	2 oc purlins.
Max H Max U	e) 2=1268/0-5-8, 9=1268/0-5-8 lorz 2=-263(LC 8) lplift 2=-155(LC 10), 9=-155(LC 11) irav 2=1319(LC 17), 9=1319(LC 18)					
TOP CHORD 2-3= BOT CHORD 2-13	Comp./Max. Ten All forces 250 (lb) or -1795/573, 3-5=-1607/629, 5-6=-1111/5/ =-310/1550, 11-13=-72/1080, 9-11=-310 =-443/316, 5-13=-183/728, 6-11=-183/72	40, 6-8=-1608/629, 8-9=-17 /1373	795/573			
NOTES- 1) Unbalanced roof live	e loads have been considered for this de	sign.				

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-9-7, Exterior(2) 7-9-7 to 22-8-9, Interior(1) 22-8-9 to 26-11-11 zone; 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.

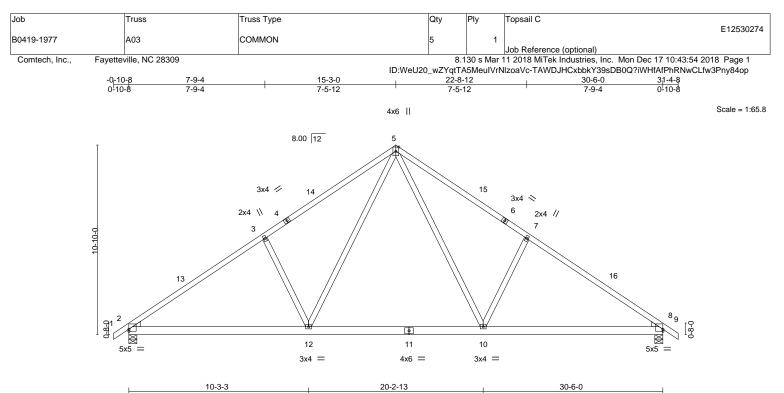
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

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) 2=155, 9=155.







	1	0-3-3	I	9-11-11	I		10-3-3	I	
Plate Offsets (X,Y)	[2:0-0-0,0-1-6], [8:0-0-0,0-	-1-6]							
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.17 10-12	>999	360	MT20	244/190
CDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.23 10-12	>999	240		
CLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.03 8	n/a	n/a		
CDL 10.0	Code IRC2015/TP	12014	Matrix-S	Wind(LL)	0.06 2-12	>999	240	Weight: 181 lb	FT = 20%
UMBER- OP CHORD 2x4 SP	No.1			BRACING- TOP CHOF		ural wood sh	eathing direc	tly applied or 3-11-6	oc purlins.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2 *Except*

 7-10,3-12: 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1268/0-5-8, 8=1268/0-5-8 Max Horz 2=287(LC 9) Max Uplift 2=-159(LC 10), 8=-159(LC 11) Max Grav 2=1336(LC 17), 8=1336(LC 18)

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

TOP CHORD 2-3=-1832/513, 3-5=-1681/617, 5-7=-1681/617, 7-8=-1833/513

- BOT CHORD 2-12=-251/1590, 10-12=-9/1042, 8-10=-251/1398
- WEBS 5-10=-230/860, 7-10=-500/332, 5-12=-230/860, 3-12=-500/332

NOTES-

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-10-3, Exterior(2) 10-10-3 to 15-3-0, Interior(1) 19-7-13 to 26-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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 loss particular to battern line international international with any other international of 20.0ps for a loss particular to a loss par

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 8=159.





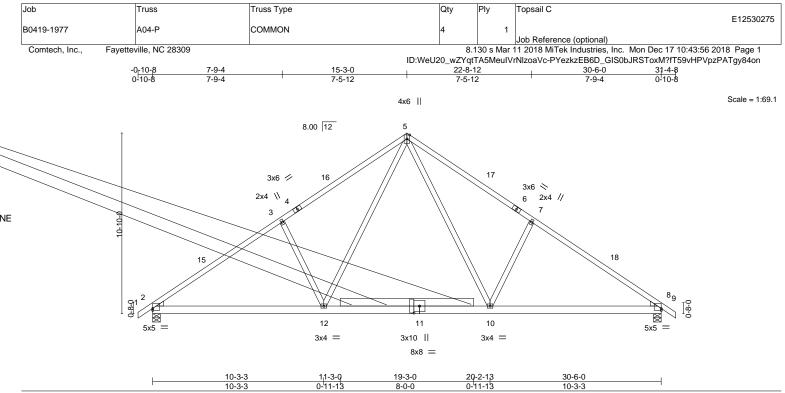


Plate Of	isets (X,Y)	[2:0-0-0,0-1-6], [8:0-0-0,0)-1-6], [11:0-5-	0,0-4-0], [11:	0-0-0,0-2-12	2]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.17 10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.23 10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03 8	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.06 2-12	>999	240	Weight: 200 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x4 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2 *Except*

 7-10,3-12: 2x4 SP No.3, 13-14: 2x6 SP No.1

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-11-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3

Left. 274 OF 140.5, Right. 274 OF 140

REACTIONS. (lb/size) 2=1268/0-5-8, 8=1268/0-5-8 Max Horz 2=-287(LC 8) Max Uplift 2=-159(LC 10), 8=-159(LC 11) Max Grav 2=1336(LC 17), 8=1336(LC 18)

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

TOP CHORD 2-3=-1832/513, 3-5=-1681/617, 5-7=-1681/617, 7-8=-1833/513

- BOT CHORD 2-12=-251/1590, 10-12=-9/1042, 8-10=-251/1398
- WEBS 5-10=-230/860, 7-10=-500/332, 5-12=-230/860, 3-12=-500/332

NOTES-

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

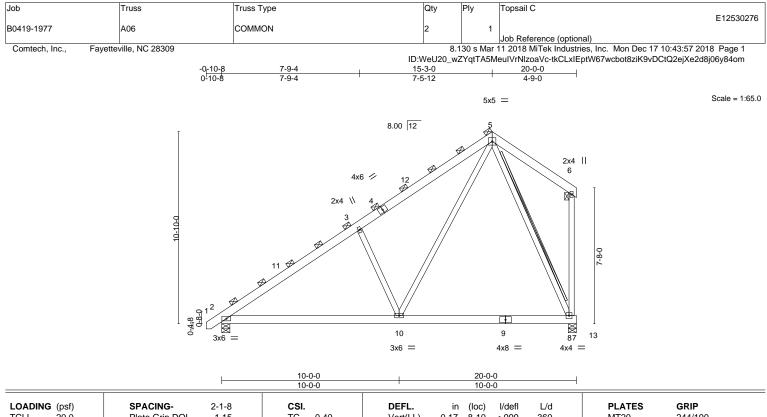
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-10-3, Exterior(2) 10-10-3 to 15-3-0, Interior(1) 19-7-13 to 26-11-11 zone; C-C for members and forces & 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

 Frovide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 8=159.







LOADING	G (psf)	SPACING-	2-1-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.17	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	x-S	Wind(LL)	0.03	2-10	>999	240	Weight: 157 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except*
	5-10,5-8: 2x4 SP No.2

BRACING-TOP CHORD

BOT CHORD WEBS 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 5-8 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. (lb/size) 8=833/0-5-8, 2=892/0-5-8 Max Horz 2=336(LC 10) Max Uplift 8=-161(LC 10), 2=-86(LC 10) Max Grav 8=1041(LC 17), 2=931(LC 17)

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

 TOP CHORD
 2-3=-1153/222, 3-5=-1017/347

 BOT CHORD
 2-10=-380/992, 8-10=-106/335

WEBS 3-10=-600/382, 5-10=-263/1009, 5-8=-812/268

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 10-10-3, Exterior(2) 10-10-3 to 15-3-0 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2 except (jt=lb) 8=161.

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

7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.





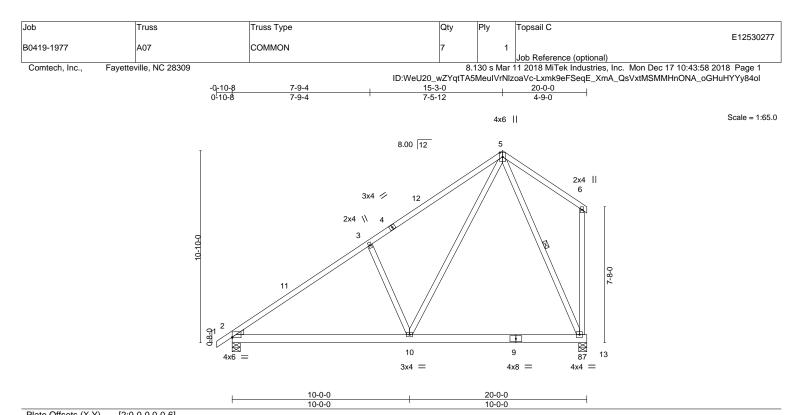


Plate Offsets (X, Y)	[2:0-0-0,0-0-6]	1				1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.1	3 8-1 0	>999 360	MT20 244/190)
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.2	2 8-10	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.0	18	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.0	5 2-10	>999 240	Weight: 137 lb FT = 2	20%
UMBER-			BRACING-				
TOP CHORD 2x4 SP	No.1		TOP CHORD	Structu	ral wood sheathing dir	ectly applied or 5-7-3 oc purlins	,
BOT CHORD 2x6 SP	No.1			except	end verticals.		
MEDO 0.4 0D				District of	- The state of the		

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.3 *Except*

 5-10,5-8:
 2x4 SP No.2

 WEDGE

Left: 2x4 SP No.3

REACTIONS.	(lb/size)	8=784/0-5-8, 2=848/0-5-8
	Max Horz	2=319(LC 10)
	Max Uplift	8=-153(LC 10), 2=-82(LC 10)
	Max Grav	8=980(LC 17), 2=883(LC 17)

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

TOP CHORD 2-3=-1076/205, 3-5=-948/326

BOT CHORD 2-10=-349/914, 8-10=-100/314

WEBS 3-10=-541/351, 5-10=-250/947, 5-8=-766/249

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-10-3, Exterior(2) 10-10-3 to 15-3-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

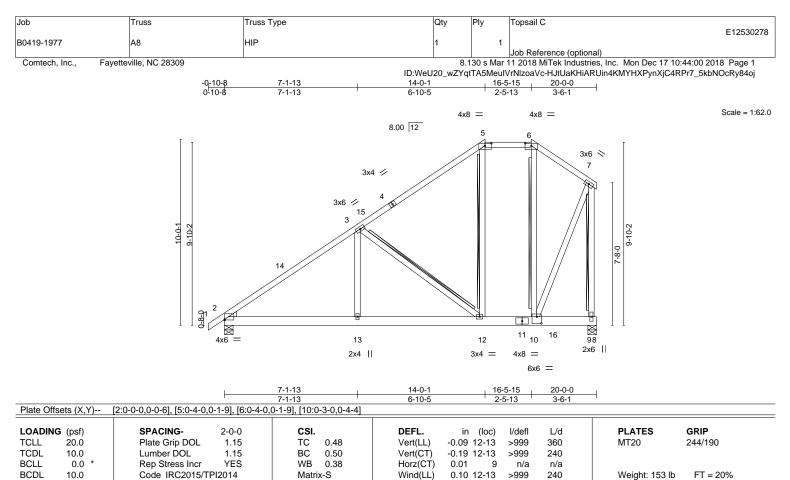
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2 except (jt=lb) 8=153.







LUMBER-		·	BRACING-		
TOP CHORD	2x4 SP No.1		TOP CHORD	Structural wood shea	athing directly applied or 5-7-5 oc purlins,
BOT CHORD	2x6 SP No.1			except end verticals.	
WEBS	2x4 SP No.3		BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc bracing, Except:
WEDGE				6-0-0 oc bracing: 9-1	10.
Left: 2x4 SP N	o.3		WEBS	T-Brace:	2x4 SPF No.2 - 3-12, 5-12, 6-10, 7-9
				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.	(lb/size)	2=848/0-5-8, 9=784/0-5-8
	Max Horz	2=307(LC 10)
	Max Uplift	2=-84(LC 10), 9=-135(LC 10)
	Max Grav	2=848(LC 1), 9=869(LC 17)

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

- TOP CHORD 2-3=-1088/238, 3-5=-485/172, 5-6=-384/222, 6-7=-400/204, 7-9=-1026/437
- BOT CHORD 2-13=-403/935, 12-13=-403/935, 10-12=-119/326
- WEBS 3-13=0/398, 3-12=-795/356, 7-10=-308/853

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-9-7, Exterior(2) 7-9-7 to 19-8-12 zone;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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

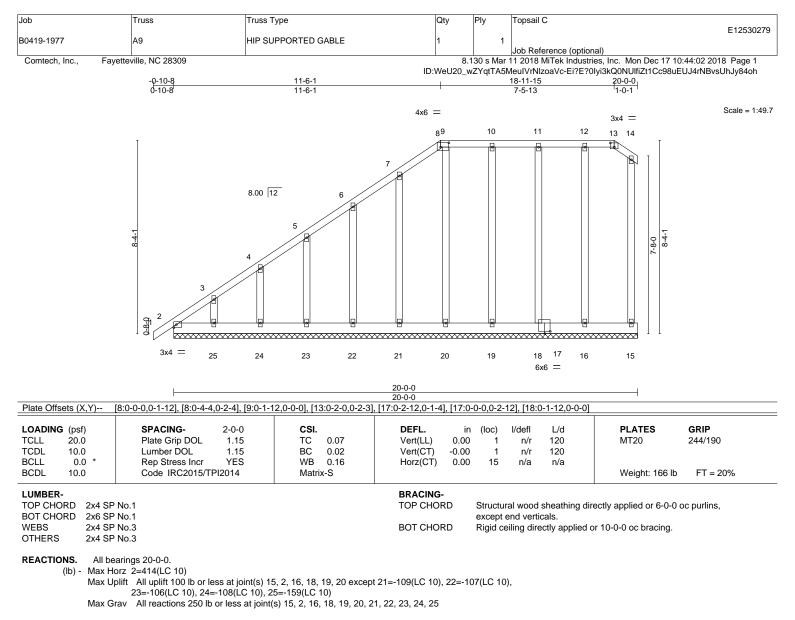
between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=135.

7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.







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

TOP CHORD 2-3=-473/369, 3-4=-357/274, 4-5=-272/208

NOTES-

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-8-12, Exterior(2) 3-8-12 to 7-1-5, Corner(3) 7-1-5 to 19-8-12 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) Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 2-0-0 oc.

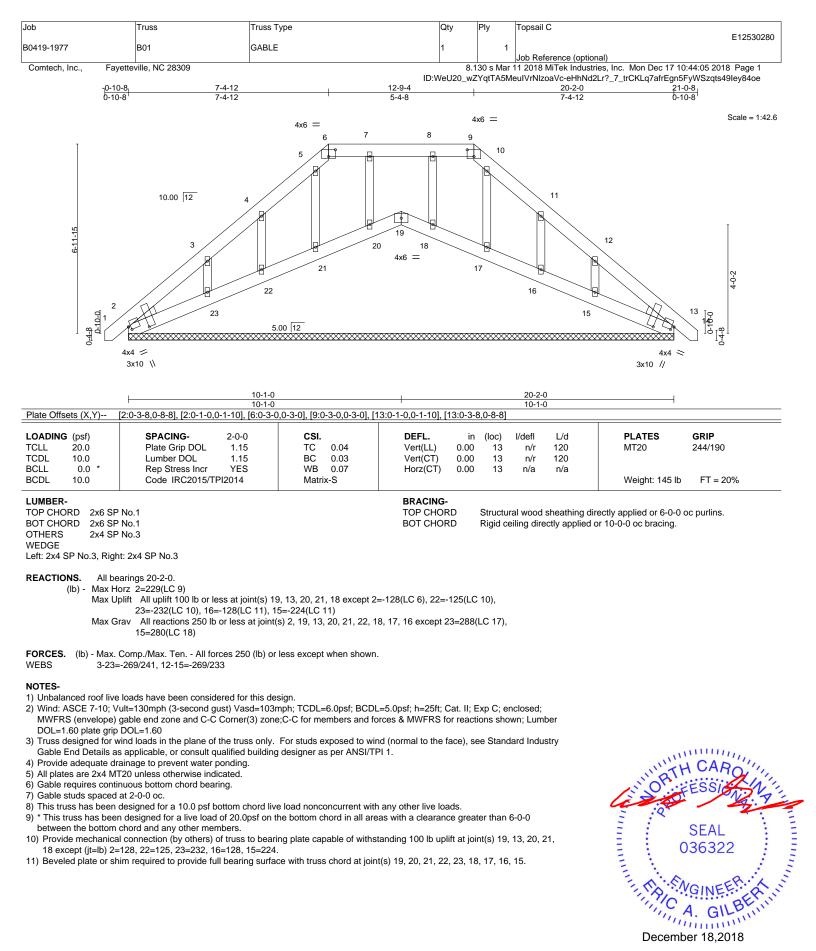
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 2, 16, 18, 19, 20 except (jt=lb) 21=109, 22=107, 23=106, 24=108, 25=159.



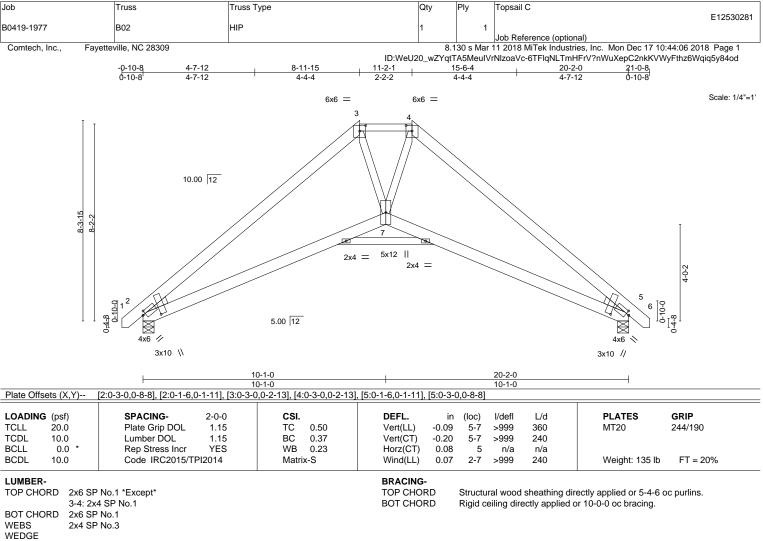
818 Soundside Road Edenton, NC 27932





A MiTek Affilia 818 Soundside Road

Edenton, NC 27932



Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=847/0-5-8, 5=847/0-5-8 Max Horz 2=217(LC 9) Max Uplift 2=-96(LC 10), 5=-96(LC 11)

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

 TOP CHORD
 2-3=-1442/282, 3-4=-1091/360, 4-5=-1442/282

 BOT CHORD
 2-7=-114/1106, 5-7=-20/1069

WEBS 4-7=-111/645, 3-7=0/564

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; 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) 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.

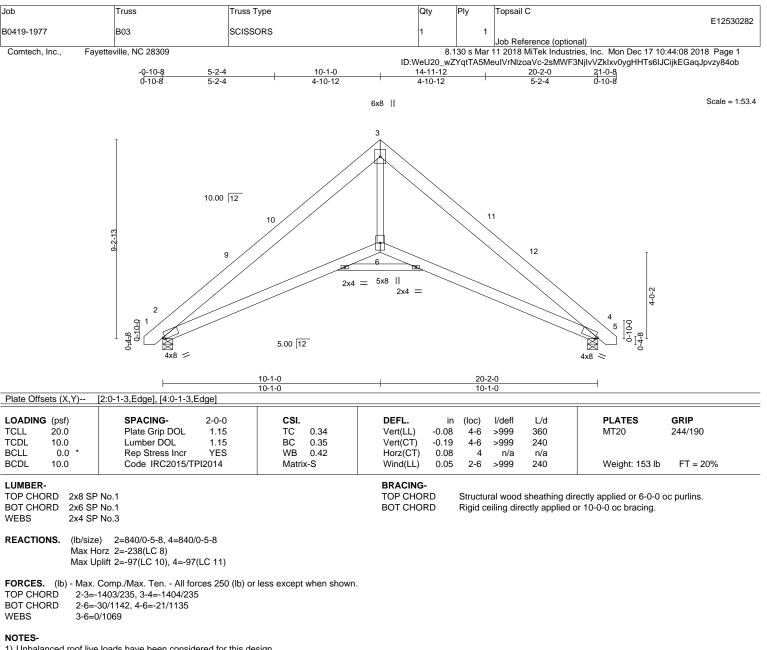
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
6) Bearing at joint(s) 2, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.







- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 5-8-3, Exterior(2) 5-8-3 to 10-1-0, Interior(1) 14-5-13 to 16-4-12 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.

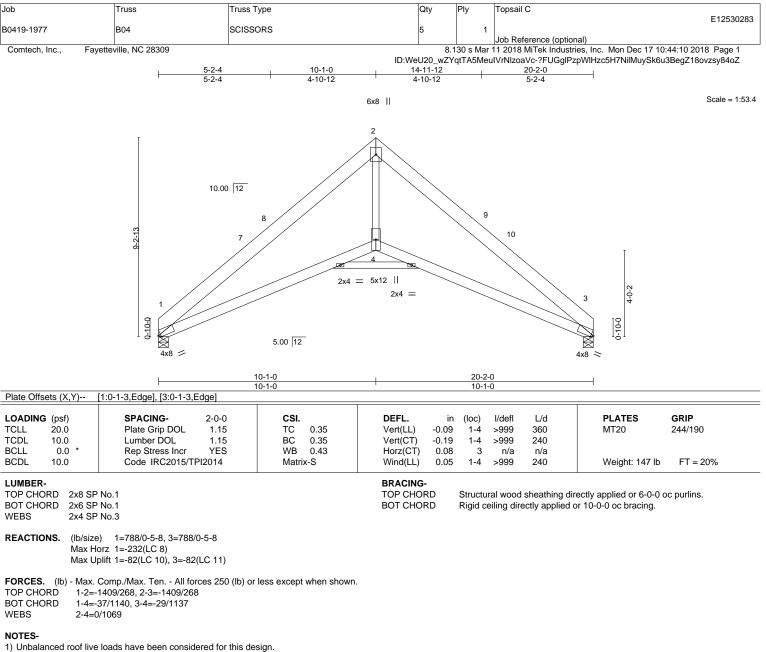
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Bearing at joint(s) 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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







2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-8-3, Exterior(2) 5-8-3 to 10-1-0, Interior(1) 14-5-13 to 15-6-7 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members.

5) Bearing at joint(s) 1, 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





Job	Truss	Truss Type	Qty	Ply	Topsail C	
D0440 4077	M01	GABLE	1	1		E12530284
B0419-1977	M01	GABLE	1	1	Job Reference (optional)	
Comtech, Inc.,	Fayetteville, NC 28309			8.130 s Mar	r 11 2018 MiTek Industries, Inc. Mon Dec 17 10:	44:11 2018 Page 1
	-		ID:WeU20_w2	ZYqtTA5Me	uIVrNIzoaVc-TR2et5Pcaqt8bmgUh5E_u6UfIWIu	wA0iGoXTVIy84oY
⊢ <u>-</u> (<u>)-4-8</u>					
L. L. L.	-4-0					
						Scale = 1:13
					2x4	4
					4	4
Ī						
		3.00) 12		2x4	
		3.00	12		3	
				_		
			_			
2-0-4						
2-						
	3x4 =					
1	2					
0-3-14						
] d		****	****		****	
					6	5

2x4 ||

2x4 ||

-0-4-8 0-4-8			7-3-8 6-11-0				-
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.23 BC 0.06 WB 0.10 Matrix-P	DEFL. i Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) -0.00) 1) 1	defl L/d n/r 120 n/r 120 n/a n/a	PLATES GRIP MT20 244/15 Weight: 30 lb FT	90 = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP OTHERS 2x4 SP	No.1 No.3	-	BRACING- TOP CHORD BOT CHORD	except end	d verticals.	ectly applied or 6-0-0 oc purli or 6-0-0 oc bracing.	ns,

REACTIONS. (lb/size) 5=-25/6-11-0, 2=183/6-11-0, 6=406/6-11-0 Max Horz 2=96(LC 6) Max Uplift 5=-25(LC 1), 2=-69(LC 6), 6=-167(LC 10) Max Grav 5=10(LC 10), 2=183(LC 1), 6=406(LC 1)

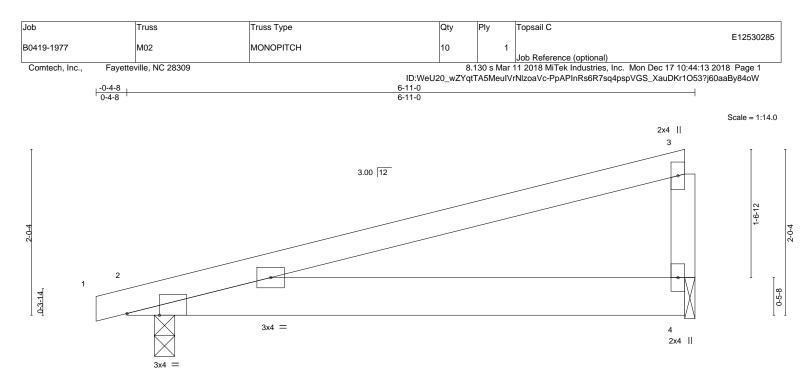
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 3-6=-304/335 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
- between the bottom chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb)
- 6=167. 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- designer.







	0-4-0				6-11-0						
<u></u>	0-4-0				6-7-0						
Plate Offsets (X,Y)	[2:0-4-12,Edge]										
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 (0.65	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC (0.59	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB (00.0	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TP	12014	Matrix-	Р	Wind(LL)	0.06	2-4	>999	240	Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.3

BRACING-TOP CHORD Strue exce BOT CHORD Rigid

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (Ib/size) 4=264/0-1-8, 2=297/0-3-0 Max Horz 2=67(LC 6) Max Uplift 4=-136(LC 6), 2=-144(LC 6)

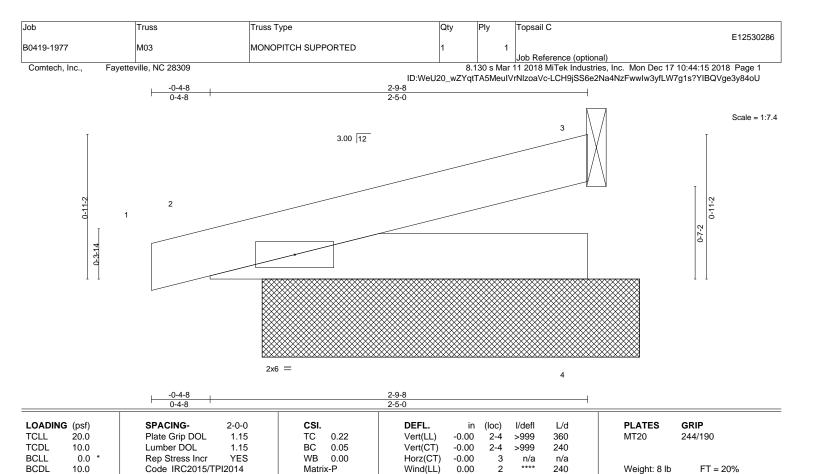
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=136, 2=144.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 2-5-0.

(lb) - Max Horz 2=27(LC 6) Max Uplift All uplift 100 lb or less at joint(s) 3, 2 Max Grav All reactions 250 lb or less at joint(s) 3, 3, 2, 4

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) 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
- 2) 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.
- 3) Gable studs spaced at 2-0-0 oc.

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 with a clearance greater than 6-0-0 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) 3, 2.
- 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 2-5-0 oc purlins.

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



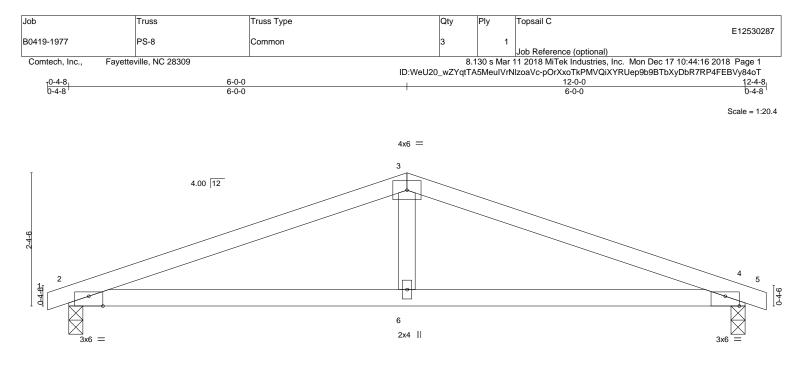


Plate Offsets (X,Y)	6-0-0 6-0-0 [2:0-3-0,Edge], [4:0-3-0,Edge]		12-0-0 6-0-0						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.39 BC 0.31 WB 0.11 Matrix-S	DEFL. ir Vert(LL) 0.10 Vert(CT) -0.07 Horz(CT) -0.01) 2-6 >999 240 7 2-6 >999 240	PLATES GRIP MT20 244/190 Weight: 41 lb FT = 20%				
Max H	No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d Rigid ceiling directly applied	lirectly applied or 5-10-12 oc purlins. I or 5-10-11 oc bracing.				
TOP CHORD 2-3=- BOT CHORD 2-6=-	Comp./Max. Ten All forces 250 (lb) or 873/1166, 3-4=-873/1166 1022/771, 4-6=-1022/771 430/283	less except when shown.							
	e loads have been considered for this de 'ult=130mph (3-second gust) Vasd=103r		5.0psf; h=25ft; Cat. II;	Exp C; enclosed;					

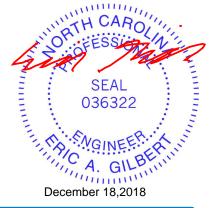
 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 1CDL=6.0psf; BCDL=5.0psf; h=25ff; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

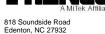
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

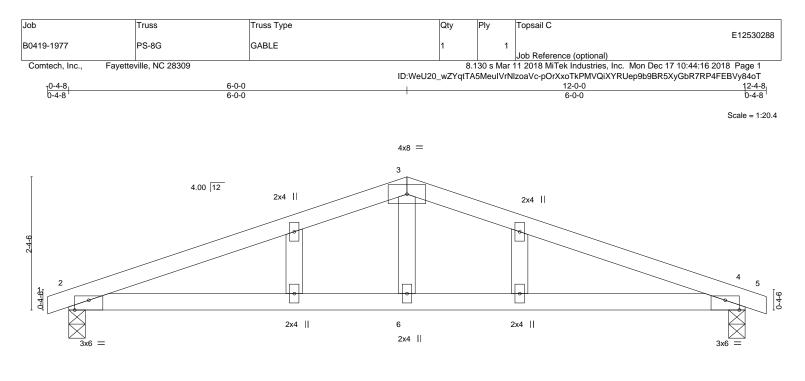
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=236, 4=236.

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







	ŀ					<u>12-0-0</u> 12-0-0						
Plate Offse	ets (X,Y)	[2:0-3-0,Edge], [4:0-3-0,E	dge]	_							1	
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	0.55	Vert(LL)	0.10	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	k-S						Weight: 44 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.1					BRACING- TOP CHOF		Structu	ral wood	sheathing di	rectly applied or 5-11-	2 oc purlins.	

BOT CHORD

I OP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.3

REACTIONS. (lb/size) 2=500/0-3-8, 4=500/0-3-8 Max Horz 2=48(LC 10) Max Uplift 2=-325(LC 6), 4=-325(LC 7)

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

TOP CHORD 2-3=-867/1422, 3-4=-867/1422

BOT CHORD 2-6=-1226/765, 4-6=-1226/765

WEBS 3-6=-396/282

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; porch left and right exposed; 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 studs spaced at 2-0-0 oc.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

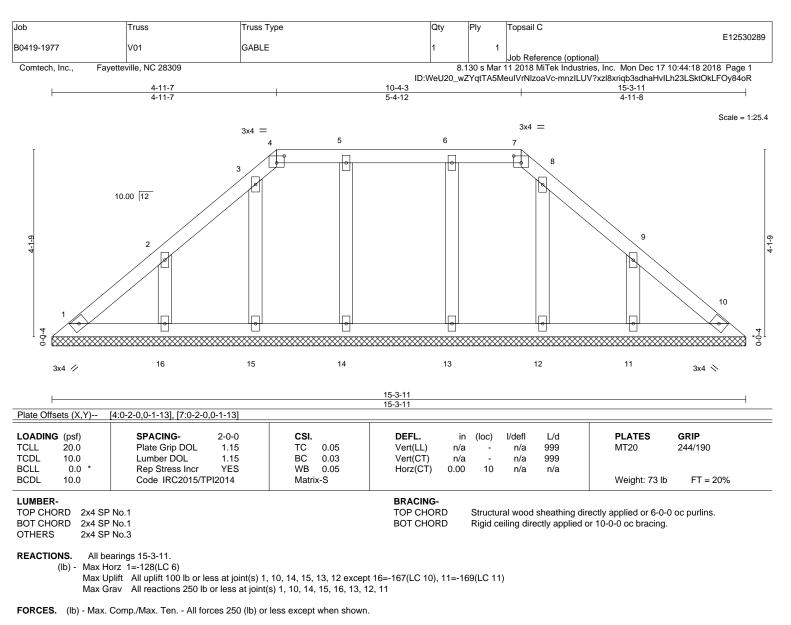
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=325, 4=325.

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



Edenton, NC 27932

Rigid ceiling directly applied or 5-4-2 oc bracing.



NOTES-

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 14, 15, 13, 12 except (jt=lb) 16=167, 11=169.





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

