

RE: B0419-1853 Roosevelt B 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 22 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E12700006	a1	2/14/2019
2	E12700007	a1-ge	2/14/2019
3	E12700008	a1p	2/14/2019
4	E12700009	a2	2/14/2019
5	E12700010	a2-ge	2/14/2019
6	E12700011	a3	2/14/2019
7	E12700012	b1	2/14/2019
8	E12700013	b2	2/14/2019
9	E12700014	b3	2/14/2019
10	E12700015	b4	2/14/2019
11	E12700016	b5-ge	2/14/2019
12	E12700017	c1	2/14/2019
13	E12700018	c2	2/14/2019
14	E12700019	c3	2/14/2019
15	E12700020	c4	2/14/2019
16	E12700021	d1	2/14/2019
17	E12700022	d2	2/14/2019
18	E12700023	d3-g	2/14/2019
19	E12700024	m3	2/14/2019
20	E12700025	p1	2/14/2019
21	E12700026	p2	2/14/2019
22	E12700027	v-1	2/14/2019

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 design 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.





5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 112 lb uplift at joint 8.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Job	Truss	Truss Type	Otv	Ply	Roosevelt B		
				,			E12700008
B0419-1853	A1P	COMMON	5	1	Job Reference (optional)		
Comtech, Inc., Fa	yetteville, NC 28309		8.1 ID:2vEc442mv	130 s Mar 1	1 2018 MiTek Industries,	Inc. Wed Feb 13 12:	34:37 2019 Page 1
-0	-10-8 8-4-13	16-4-0	16-6-2 24-	5-5	32-6	3-0 33-6	5-8
0-	-10-8 8-4-13	7-11-3	0-2-2 7-1	1-3	8-2-	·11 0-10	)-8
			5x5 =				Scale = 1:68.6
		8.00 12	5				
11-10-11 1-0-0	18 18 4x12	4x6 = 19 $x4 \ 19$ 3 2x4 = 10 2x4 = 10 13 3x4 = 4x6 =	2x4    11 2x4    11 4x6 =	20 4x6 6 7 15 10 3x4 =	5 ≥ 2x4 // 7	21 4x12	8 0 1-0-0 1
Plate Offsets (X,Y)	<u>11-3-14</u> <u>11-3-14</u> [2:0-0-1,0-0-1], [2:0-0-2,0-5-11],	16-4-0 5-0-2 [2:Edge,0-0-3], [8:0-0-1,0-0-1], [8:0	21-4-3 5-0-3 0-0-2,0-5-11], [8:Edge,	0-0-3]	32-8-0 11-3-13		
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 NC Code IRC2015/TPI2014	CSI. TC 0.48 BC 0.48 WB 0.72 Matrix-S	DEFL. ir Vert(LL) -0.11 Vert(CT) -0.24 Horz(CT) 0.05 Wind(LL) 0.05	i (loc) 2-13 2-13 2-13 8 5 8 5 2-13	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 254 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF 5-13,5 WEDGE Left: 2x6 SP No.1, Rigi	P No.1 P No.1 P No.3 *Except* -10: 2x4 SP No.2, 14-15: 2x6 SP ht: 2x6 SP No.1	No.1	BRACING- TOP CHORD BOT CHORD WEBS	Structura Rigid ceil 1 Row at	I wood sheathing direct ling directly applied or 1 midpt 14-1	y applied or 4-10-1 0-0-0 oc bracing. 5	1 oc purlins.
REACTIONS. (Ib/siz Max H Max U	e) 2=1632/0-5-8, 8=1632/0-5-8 Horz 2=-273(LC 6) Jplift 2=-150(LC 10), 8=-150(LC 1	1)					
FORCES.         (lb) - Max.           TOP CHORD         2-3=           BOT CHORD         2-13:           WEBS         3-13:           7-10:         7-10:	Comp./Max. Ten All forces 25/ -2236/572, 3-5=-2077/671, 5-7=- 319/1775, 10-13=-125/1372, 8- 465/305, 13-14=-179/689, 5-14 463/304	) (lb) or less except when shown. 2069/666, 7-8=-2240/575 10=-324/1724 =-272/1014, 5-15=-265/1002, 10-1	15=-172/677,				
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; \	e loads have been considered for /ult=130mph (3-second gust) Va:	this design. d=103mph; TCDL=6.0psf; BCDL=	-5.0psf; h=15ft; Cat. II;	Exp C; end	closed;		

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; 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 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 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 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=150, 8=150.

# LOAD CASE(S) Standard

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

Vert: 1-5=-60, 5-9=-60, 2-8=-20, 14-15=-60

WHATH CARO ORTH CAROL Numming. STITUTE STATES SEAL 036322 C A. GILB A. GILUN February 14,2019



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5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 10=112.



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply Roosevelt B		E 40700044
B0419-1853	A3	ROOF SPECIAL	2	1		E12700011
Comtech. Inc., Favette	ville. NC 28309		8.7	Job Reference (option 130 s Mar 11 2018 MiTek Indust	onal) ries. Inc. Wed Feb 13 12:34:41 2	2019 Page 1
,,,,,	40.0.0.5.0	44.0.0 40.4.0	ID:3vEs44?mxllr	maiyl?_Tpv0zl7qB-WYkwNRI?A	GnHIDNP?ePkOX9w?XQ2JeDru	uWTLozIYcy
-0-	10-8 2-5-8 4-7-8 6-8-12 10-8 2-5-8 2-2-0 2-1-4	4-3-4 5-4-0	0-2-2 7-11-3	3 32-0 3 8-2-	-11 0-10-8	
MEI	MBERS SHOWN DOTTED SHAL	LL BE	5x5			Scale = 1:73.9
		8.00 12	6			
Ī						
		4x6		27 4x6		
1	3x1	4		6x12 × 8		
-10-						
÷			5x8 = 3x10    $22 3x10$			
	25				28	
	2 3 11-0-0		\$ \$\$2x4:≡:\$\$2x4/			
		16 <mark>8</mark>		8		
141	3x10    19	17 2x4    5x8 2x4    14	3 = 13 12	11	4x12	
	2x6	2x4	2x4    3x10 =	2x4		
	3x10 =					
	2-5-8 4-7-8	<u>11-0-0 15-8-0</u> 6-4-8 4-8-0	19-0-0 21-8-4	32-8-0		
Plate Offsets (X,Y) [2:0-	-0-1,0-0-1], [2:0-0-2,0-5-11],	[3:0-5-10,0-0-0], [4:0-2-8,0-1-8]	], [9:0-0-2,0-3-11], [9:0-0-1	1,0-0-1], [9:Edge,0-0-3], [18:0-	2-8,0-2-8], [22:0-3-0,0-1-8]	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Den Otropo Ison1.05	<b>CSI.</b> TC 0.39 BC 0.60	DEFL. ir Vert(LL) -0.17 Vert(CT) -0.32	n (loc) l/defl L/d 12 >999 360 2 12 >999 240	PLATES GRIP MT20 244/1	90
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	5 9 n/a n/a 13 >999 240	Weight: 308 lb FT	= 20%
LUMBER- TOP CHORD 2x6 SP No. BOT CHORD 2x6 SP No. WEBS 2x4 SP No. 4-20,13-21, OTHERS 2x4 SP No. WEDGE	1 1 3 *Except* 12-22,14-16,8-20: 2x6 SP N 3	0.1	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing d Rigid ceiling directly applied T-Brace: Fasten (2X) T and I braces (0.131"x3") nails, 6in o.c.,wii Brace must cover 90% of w	irectly applied or 4-2-13 oc pur or 10-0-0 oc bracing. 2x4 SPF No.2 - 8-12, 4-15 to narrow edge of web with 10 th 3in minimum end distance. b length	lins.
Left: 2x6 SP No.1, Right: 2x	<4 SP 2400F 2.0E		JOINTS	1 Brace at Jt(s): 21, 22		
REACTIONS. (lb/size) Max Horz Max Uplift	2=1311/0-5-8, 9=1306/0-5-8 2=-273(LC 6) 2=-130(LC 10), 9=-132(LC 1	1)				
FORCES.         (lb) - Max. Con           TOP CHORD         2-3=-138           BOT CHORD         2-19=-144           11_12         11_2	np./Max. Ten All forces 250 5/373, 3-4=-2038/518, 4-6=-2 8/567, 3-18=-145/1166, 17-18 30/1320, 9-11238/1322	) (lb) or less except when show 2448/519, 6-8=-3052/626, 8-9= 8=-283/1717, 16-17=-286/1704	n. -1773/463 I, 15-16=-286/1704,			
WEBS 4-21=-62/ 8-12=-19 4-17=0/42	(1920, 21-22=-37/1733, 8-22: 18/348, 8-11=0/316, 4-15=-20 20	=-149/2414, 15-21=-147/1133, 025/339, 6-21=-152/1132, 6-22	12-22=-231/1434, 2=-248/1505,			
NOTES						

#### 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=15ft; 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 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 20-8-13 to 29-0-2 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 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=130, 9=132.

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



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Job	Truss	Truss Type	Qty	Ply Roosevelt B	
B0419-1853	B1	ROOF SPECIAL	2	1	E12700012
Comtech, Inc., F	ayetteville, NC 28309			Job Reference (op .130 s Mar 11 2018 MiTek Indu	tional) stries, Inc. Wed Feb 13 12:34:42 2019 Page 1
	-0 <u>-11-0 2-5-0 6-7</u> 0-11-0 2-5-0 4-2	<u>4 10-11-8 15-1</u> 4 4-4-4 4-2	ID:3vEs4 - <u>13 23-0</u> -5 7-10	14?mxIImaiyI?_Tpv0zI7qBIHI <u>0-3                                    </u>	onJdxav8vNybZLwzwki73wq229y_7YG0tEzIYcx 31-0-8 8-0-5
			5x8 =		Scale = 1:69.3
		8.00 12	6		
11 13	$ \begin{array}{c} 19 \\ 1 \\ 2 \\ 3 \\ 3 \\ 10 \\ 17 \\ 17 \\ 2 \\ 3 \\ 3 \\ 10 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 2 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18 \\ 18$	4x6 = 20 $3x6 = 5$ $4$ $4$ $4$ $110-0$ $16$ $2x4   $ $13$ $2x4   $	14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$21   4x6 \approx 7   2x4   7   8   8   10   10   4x6 = 10   10   10   10   10   10   10   10$	9 9 1 22 9 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Plate Offsets (X,Y)	<u>2-5-0</u> 6-7 2-5-0 4-2 [2:0-0-1.0-0-1]. [2:0-0-2.0-3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-13 19-1-4 -5 3-11-7	<u>31-0-8</u> 11-11-4	
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2	2-0-0         CSI.           1.15         TC         0.31           1.15         BC         0.36           YES         WB         0.74           014         Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.22 Horz(CT) 0.04 Wind(LL) 0.04	n (loc) l/defl L/d 2 9-10 >999 360 3 9-10 >599 240 4 9 n/a n/a 4 16-17 >999 240	PLATES         GRIP           MT20         244/190           Weight: 238 lb         FT = 20%
LUMBER- TOP CHORD 2x6 5 BOT CHORD 2x6 5 WEBS 2x4 3 6-10 WEDGE Left: 2x4 SP No.3	SP No.1 SP No.1 SP No.3 *Except* .6-12: 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing Rigid ceiling directly applie 6-0-0 oc bracing: 9-10. 1 Row at midpt T-Brace: Fasten (2X) T and I brace (0.131"x3") nails, 6in o.c., Brace must cover 90% of	directly applied or 6-0-0 oc purlins. d or 10-0-0 oc bracing, Except: 6-12 2x4 SPF No.2 - 6-10, 4-14 s to narrow edge of web with 10d with 3in minimum end distance.
REACTIONS. (Ib/s Max Max Max	ize) 2=710/0-3-8, 10=1516/( Horz 2=-255(LC 6) Uplift 2=-70(LC 10), 10=-93(L Grav 2=710(LC 1), 10=1593(	)-3-8, 9=293/0-3-0 C 10), 9=-86(LC 11) LC 17), 9=351(LC 22)			ingui.
FORCES.(lb) - MaTOP CHORD2-3BOT CHORD2-1WEBS6-1	x. Comp./Max. Ten All force: =-726/206, 3-4=-989/259, 4-6: 8=-117/389, 3-17=-43/562, 16 0=-1064/137, 8-10=-564/329,	s 250 (lb) or less except when show 337/226, 6-8=-38/430 -17=-160/951, 15-16=-160/951, 14- 6-14=-90/468, 4-14=-861/272, 4-16	n. 15=-236/796 =0/405		
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10 MWFRS (envelop to 26-6-11 zone;C	ive loads have been considere ; Vult=130mph (3-second gust e) and C-C Exterior(2) -0-8-15 -C for members and forces & l	d for this design. I Vasd=103mph; TCDL=6.0psf; BCI to 3-7-14, Interior(1) 3-7-14 to 10-9 /WFRS for reactions shown; Lumb	DL=5.0psf; h=15ft; Cat. II; -8, Exterior(2) 10-9-8 to 1 er DOL=1.60 plate grip D	; Exp C; enclosed; 5-2-5, Interior(1) 19-7-2 OL=1.60	MANDELLIN,

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 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, 10, 9.
6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Plate Off	sets (X,Y)	[2:0-0-1,0-0-1], [2:0-0-2,0-3	3-11], [2:Edg	e,0-0-3]		-						
	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	0.31	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.27	8-9	>528	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matrix	-S	Wind(LL)	0.03	2-12	>999	240	Weight: 214 lb	FT = 20%
	_											

#### LUMBER-

WEDGE

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.3 \*Except\*

 5-12.5-9: 2x4 SP No.2

BRACING-TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 5-9 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.

Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=789/0-3-8, 9=1298/0-3-8, 8=431/0-3-0 Max Horz 2=-255(LC 6) Max Uplift 2=-70(LC 10), 9=-110(LC 11), 8=-30(LC 11) Max Grav 2=818(LC 17), 9=1479(LC 18), 8=432(LC 22)

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

TOP CHORD 2-3=-908/227, 3-5=-724/289, 7-8=-335/96

BOT CHORD 2-12=-148/840, 9-12=-47/318

WEBS 3-12=-509/304, 5-12=-175/808, 5-9=-830/159, 7-9=-570/334

#### 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=15ft; 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 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 19-7-2 to 26-6-11 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 30.0psf 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, 8 except (jt=lb) 9=110

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



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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 0.64 BC 0.40 WB 0.38 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.11 0.01 0.05	(loc) 6-7 6-7 5 6-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 106 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1				BRACING- TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.					oc purlins,
WEBS 2x4 SP No.3 *Except* 2-7: 2x4 SP No.2 WEDGE Right: 2x4 SP No.3			BOT CHOR WEBS	<ul> <li>Rigid ceiling directly applied or 10-0-0 oc bracing.</li> <li>1 Row at midpt 4-7, 2-7</li> </ul>					
REACTIONS. (Ib/a Max Max Max	size) 8=654/Mechanical, 5=650/Mechani < Horz 8=-343(LC 11) < Uplift 8=-185(LC 11) < Grav 8=688(LC 18), 5=650(LC 1)	cal							
FORCES.(lb) - MaTOP CHORD4-BOT CHORD7-WEBS4-	ax. Comp./Max. Ten All forces 250 (lb) or 5=-827/0 3=-410/410, 6-7=0/585, 5-6=0/578 7=-852/331, 4-6=0/444	less except when shown.							
NOTES-									

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 5-1-10, Interior(1) 5-1-10 to 11-10-15, Exterior(2) 11-10-15 to 16-3-12 zone; 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 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=185.



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LUMBER-			BRACING-			
TOP CHORD	2x4 SP	No.1	TOP CHORD	Structural wood shea	thing directly applied	d or 5-7-6
BOT CHORD	2x6 SP	No.1		except end verticals.		
WEBS	2x4 SP	No.3 *Except*	BOT CHORD	Rigid ceiling directly a	pplied or 10-0-0 oc	bracing.
	2-7: 2x4	4 SP No.2	WEBS	1 Row at midpt	4-7, 2-7	
REACTIONS	(lh/size	) 5-657/0-3-0 8-661/Mechanical				

REACTIONS. (lb/size) 5=657/0-3-0, 8=661/Mechanical Max Horz 8=-343(LC 11) Max Uplift 8=-185(LC 11) Max Grav 5=657(LC 1), 8=695(LC 18)

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

TOP CHORD 4-5=-852/0

BOT CHORD 7-8=-410/408, 6-7=0/606, 5-6=0/604

WEBS 4-7=-863/332, 4-6=0/448

### NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0 to 5-1-10, Interior(1) 5-1-10 to 12-1-3, Exterior(2) 12-1-3 to 16-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

All plates are MT20 plates unless otherwise indicated.

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=185.



oc purlins,

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## 0-<u>8-13</u> 0-8-13 16-7-8 15-10-11 8.00 12 4x4 = 2 3 5x5 📎 5 1-1-9 10-7-11 10 [<del>6</del> 3x4 = 20 19 14 18 17 16 15 13 12 11 4x6 =

#### 16-7-8 16-7-8

LOADING (psf) TCLL         SPACING- 20.0         2-0-0         CSI.         DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           TCLL         20.0         Plate Grip DOL         1.15         TC         0.13         Vert(LL)         n/a         -         n/a         999         MT20         244/190           TCDL         10.0         Lumber DOL         1.15         BC         0.02         Vert(CT)         n/a         -         n/a         999           BCLL         0.0 *         Rep Stress Incr         YES         WB         0.20         Horz(CT)         0.02         16         n/a         n/a         Na           BCDL         10.0         Code IRC2015/TPI2014         Matrix-S         Horz(CT)         0.02         16         n/a         n/a         Weight: 137 lb         FT = 20%	Plate Offsets (X,Y)	[5:0-2-8,0-3-0], [15:0-2-9,0-2-0]							
BCDL 10.0 Code IRC2015/1P12014 Matrix-S Weight: 137 lb F1 = 20%	LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           CODE         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	<b>CSI.</b> TC 0.13 BC 0.02 WB 0.20	<b>DEFL.</b> in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.02	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
LUMBER- BRACING-	BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	BRACING-				Weight: 137 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUN	/IBER-
-----	--------

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 2-19, 3-18 T-Brace: 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.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

REACTIONS. All bearings 16-7-8.

Max Horz 1=-489(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 20, 18, 16, 14, 13, 12 except 1=-250(LC 11), 19=-120(LC 9), 17=-115(LC 11), 11=-101(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 10, 20, 14, 13, 12, 11 except 19=501(LC 11), 18=266(LC 18), 17=276(LC 18), 16=271(LC 18)

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

TOP CHORD 1-2=-429/551, 2-3=-445/554, 3-4=-404/504, 4-5=-335/417, 5-6=-279/346, 6-7=-225/276, 2-19=-487/337

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 5-1-10, Exterior(2) 5-1-10 to 12-2-11, Corner(3) 12-2-11 to 16-7-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 20, 18, 16, 14, 13, 12 except (jt=lb) 1=250, 19=120, 17=115, 11=101.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

ORT Warman warming MALLER IN INTERNET SEAL 036322 GI minum February 14,2019

Scale = 1.66.6



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3-2-8

Scale = 1.95.0



6-7-7 9-8-0 3-2-8 ◶▫ฅ 12 14 2x6 Ш 11 13 2x6 Ш 10 8x8 = 3x6 || 8x16 2x6 || 3x6 || 2x6 ||



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 0.45	Vert(LL)	-0.15	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT)	-0.23	11-13	>999	240	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT)	0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.13	13	>999	240	Weight: 255 lb	FT = 20%
LUMBER-	·		BRACING-					·	
TOP CHORD 2x6	SP No.1		TOP CHOR	D	Structu	Iral wood	d sheathing di	rectly applied or 6-0-0	oc purlins,
BOT CHORD 2x8	SP No.1				except	end vert	ticals.		
WEBS 2x6 SP No.1 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.									
3-7: 3	2x4 SP No.1, 1-13,9-11: 2x4 SP No.3, 11-	13: 2x8 SP No.1							
REACTIONS. (lb/s	ize) 14=1123/0-3-8, 10=1123/0-3-8								
Max	Horz 14=251(LC 7)								
Max	Grav 14=1368(LC 19), 10=1368(LC 18)								
FORCES (Ib) - Ma	x Comp /Max Ten - All forces 250 (lb) o	less excent when shown							
TOP CHORD 1-2	=-1385/31 2-3=-835/173 7-8=-835/173	8-9=-1385/31 1-14=-1521/12							
9-1	0=-1521/12	5 5 1000/01, 1 14 1021/12,							
BOT CHORD 13-14278/315 11-13=0/876									
WEBS 3-7	=-773/236 2-13=-124/458 8-11=-124/45	8 1-13=0/952 9-11=0/953							
		, · · · · · · · · · · · · · · · · · · ·							
NOTES-									
1) Unhalanced reef	ve leads have been considered for this de	cian							

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 6-4-3, Exterior(2) 6-4-3 to 10-9-0, Interior(1) 15-1-13 to 16-9-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are MT20 plates unless otherwise indicated.

4) Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).

5) See HINGE PLATE DETAILS for plate placement.

6) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.

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

13-11-0

- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).2-13, 8-11
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13 11) Attic room checked for L/360 deflection.



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818 Soundside Road Edenton, NC 27932



1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x10 - 2 rows staggered at 0-6-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.

7) Attach MiTek MTHNH18 (Half and Half Plate) on each face of truss with USP NA11 nails (0.131" x 1.5") in pre-punched holes provided. All nail holes must be filled (5 Nails per side 10 nails total).

- See HINGE PLATE DETAILS for plate placement.
- 9) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  11) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 12) Ceiling dead load (10.0 psf) on member(s). 2-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s).2-15, 9-13

```
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
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14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 property 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available the Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Job	Truss	Truss Type	Qty	Ply	Roosevelt B
					E12700020
B0419-1853	C4	ATTIC	1	2	
				<b>_</b>	Job Reference (optional)
Comtech, Inc.,	Fayetteville, NC 28309			8.130 s Mar	11 2018 MiTek Industries, Inc. Wed Feb 13 12:34:49 2019 Page 2

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 13 12:34:49 2019 Page 2 ID:3vEs44?mxllmaiyl?\_Tpv0zl7qB-H5Cy3AP0lko8FS\_xTJYciDUFwl7nBFl0k8SudKzlYcq

#### NOTES-

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 0-3-4, 610 lb down at 7-11-12, 610 lb down at 9-5-12, 605 lb down at 11-5-12, 610 lb down at 13-5-12, 392 lb down and 67 lb up at 15-5-7, and 311 lb down and 119 lb up at 17-5-12, and 311 lb down and 119 lb up at 19-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

17) Attic room checked for L/360 deflection.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 15-16=-20, 13-15=-40, 12-13=-20, 2-4=-80, 4-8=-60, 8-9=-80, 4-8=-490(F=-470), 2-3=-60, 9-11=-60

Drag: 2-15=-10, 9-13=-10 Concentrated Loads (lb)

Vert: 1=-28 5=-570(B) 7=-570(B) 2=-577 9=-352 17=-570(B) 18=-570(B) 19=-577 20=-577 21=-271(B) 22=-271(B)

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Max Horz 2=-164(LC 6) Max Uplift 2=-147(LC 10), 6=-147(LC 11)

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

TOP CHORD 2-4=-1871/265, 4-6=-1868/321

BOT CHORD 2-8=-214/1689, 6-8=-207/1654 WEBS 4-8=-137/1764

#### 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=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) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Bearing at joint(s) 2, 6 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) except (jt=lb) 2=147, 6=147.



818 Soundside Road Edenton, NC 27932

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# ENGINEERING BY REENCO A MiTek Atfiliate 818 Soundside Road

Edenton, NC 27932



6-0-0						
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loo	oc) l/defl L/d	PLATES GRIP	
TCLL         20.0           TCDL         10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.44 BC 0.30	Vert(LL) -0.06 2- Vert(CT) -0.11 2-	2-4 >999 360 2-4 >615 240	MT20 244/190	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.00 Matrix-P	Horz(CT) 0.00 Wind(LL) 0.00	4 n/a n/a 2 **** 240	Weight: 22 lb FT = 20%	

# LUMBER-

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

BRACING-TOP CHORD

RD 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. (lb/size) 2=295/0-3-8, 4=222/0-1-8 Max Horz 2=66(LC 6) Max Uplift 2=-61(LC 6), 4=-38(LC 10)

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=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
- 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 30.0psf 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) 2, 4.



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						12-0-0						
						12-0-0						
Plate Offse	ets (X,Y)	[2:0-1-12,Edge], [4:Edge,	,0-4-0]									
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)	0.37	2-4	>380	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.32	2-4	>434	240	M18SHS	244/190
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	Matrix	x-S						Weight: 65 lb	FT = 20%
LUMBER-						BRACING-						
TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1			TOP CHOR	D	Structu except	ral wood end verti	sheathing di cals.	rectly applied or 6-0-0	oc purlins,			

BOT CHORD

Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS. (lb/size) 2=510/0-3-8, 4=464/0-1-8 Max Horz 2=102(LC 6) Max Uplift 2=-206(LC 6), 4=-203(LC 6)

2x6 SP No.1

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-306/184, 3-4=-310/222

#### NOTES-

WEBS

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 7-4-7, Exterior(2) 7-4-7 to 11-9-4 zone; porch left

exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) All plates are MT20 plates unless otherwise indicated.

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) 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.

6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 4=203.



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4x4 =

2x4 ||

Plate Offsets (X V)	[2.0-0-0 0-0-12]

Plate Offsets (A, f)	[2.0-0-0,0-0-15]				
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 0.67 BC 0.38 WB 0.00 Matrix-P	DEFL.         ir           Vert(LL)         -0.01           Vert(CT)         0.03           Horz(CT)         0.00	n (loc) l/defl L/d 1 n/r 120 3 1 n/r 120 0 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 23 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	2 No.1 2 No.1 2 No.3		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

# REACTIONS. (lb/size) 4=251/6-6-0, 2=310/6-6-0 Max Horz 2=59(LC 6)

Max Uplift 4=-41(LC 10), 2=-59(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-187/300

#### NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; 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 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 30.0psf 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) 4, 2.



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