

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010090 BCTH-58

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62935730 thru I62935741

My license renewal date for the state of North Carolina is December 31, 2024.

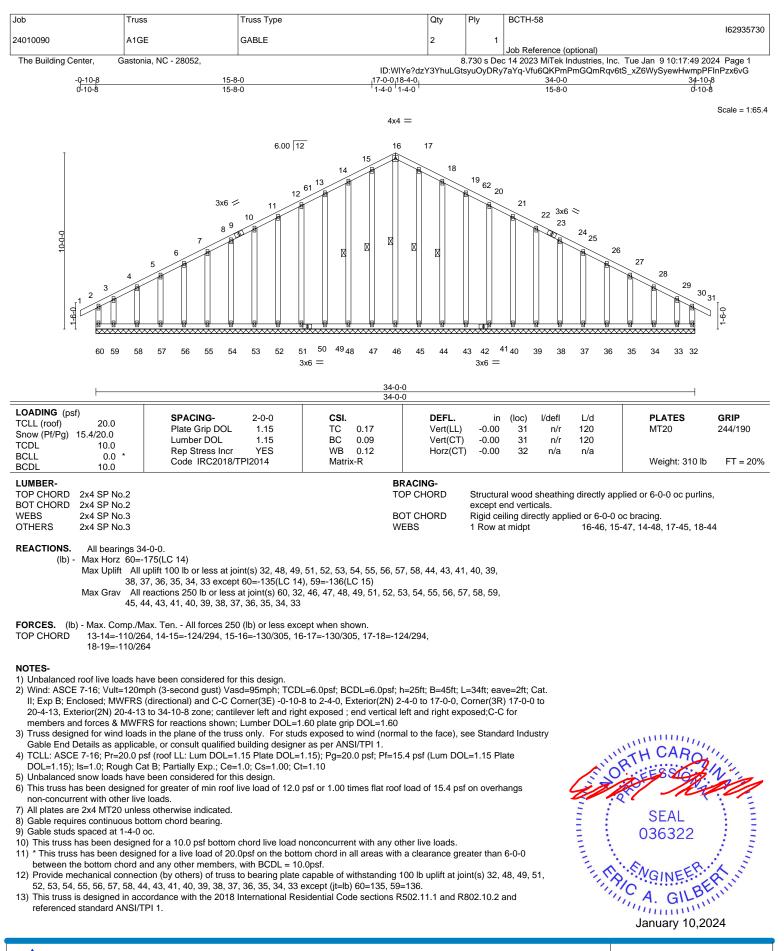
North Carolina COA: C-0844



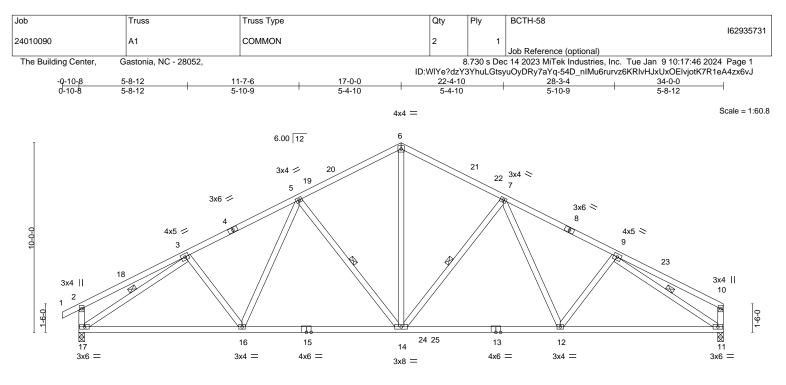
January 10,2024

# Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)



<u> </u>	8-7-5 8-7-5		<u>17-0-0</u> 8-4-11			-4-12 -4-12	 		<u>34-0-0</u> 8-7-5	
LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.45 0.80 0.58	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.36 0.09	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-S					Weight: 206 lb	FT = 20%
LUMBER-				E	RACING-					

TOP CHORD

BOT CHORD

WFBS

## LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	13-15: 2x4 SP No.1
WEBS	2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 17=0-3-8 Max Horz 17=173(LC 15) Max Uplift 11=-10(LC 16), 17=-35(LC 16)

Max Grav 11=1448(LC 29), 17=1503(LC 28)

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

TOP CHORD 3-5=-2042/114, 5-6=-1618/155, 6-7=-1617/156, 7-9=-2048/118, 2-17=-304/99

BOT CHORD 16-17=-70/1827, 14-16=-27/1738, 12-14=-16/1666, 11-12=-63/1729

WFBS 7-14=-505/94, 7-12=0/295, 6-14=-39/1144, 5-14=-504/94, 5-16=0/291, 3-17=-1959/43, 9-11=-1998/69

## NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-10-3 oc purlins,

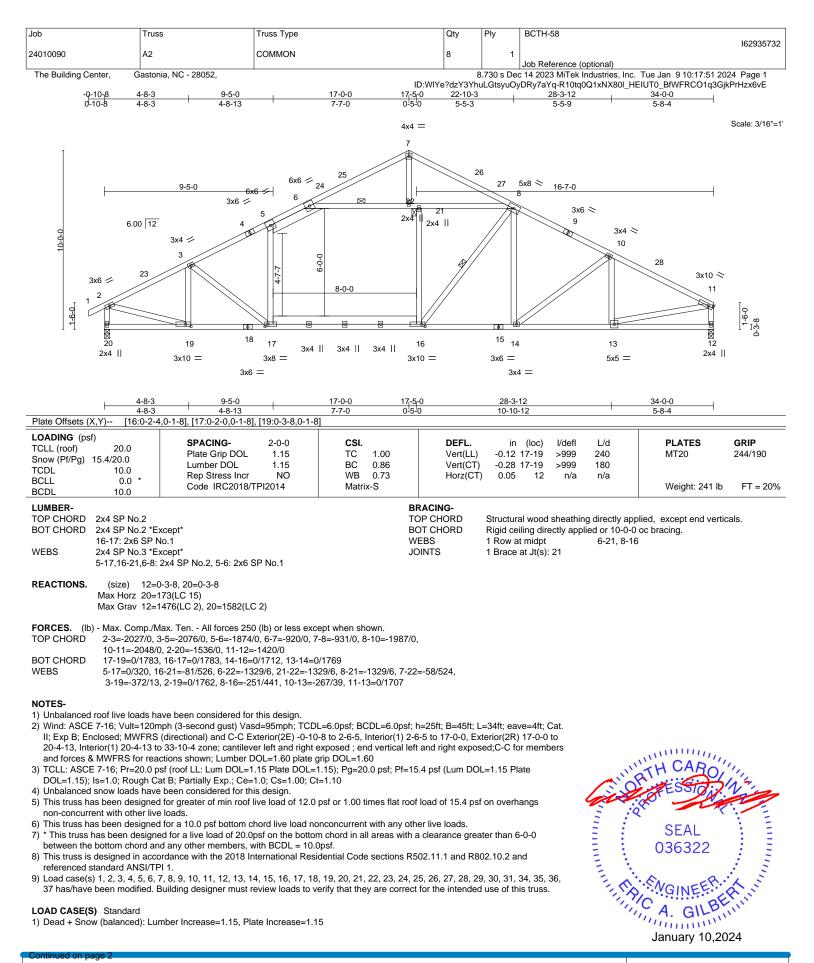
7-14, 5-14, 3-17, 9-11

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

except end verticals.

1 Row at midpt

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matrix	Job	Truss		Qty	Ply	BCTH-58	
The building Center.         Control, NC-2002.         Diverse (2) (2010)           Lob Decare 20 (2010)         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Lob Decare 20 (2010)         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Lob Decare 20 (2010)         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Decare 20 Control, NC-2002.         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Decare 20 Control, NC-2002.         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Decare 20 Control, NC-2002.         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Decare 20 Control, NC-2003.         NC-2002.         Control, NC-2002.         Control, NC-2002.         Control, NC-2002.           Decare 20 Control, NC-2003.         NC-2002.         Control, NC-2002.         Contro			Truss Type			BC111-30	162935732
CAND Cases (pi)         Development of the second of	24010090	A2	COMMON	8	1	Job Reference (optional)	
<ul> <li>LOD CARE[3] Standard Writi 1,26-11, 27-61, 17-86-11, 47-86-11, 47-86-12, 17-20-20, 16-17-80, 12-16-20</li> <li>Doral + Roull Link Balanced, Lindhe Homsten-1,15</li> <li>Burnet Loss (M. Link Balanced, Lindhe Homsten-1,15</li> <li>Burnet Loss (M. Link Balanced, Lindhe Homsten-1,15, Films Interase-1, 15, Films Interase-1, 15</li> <li>Burnet Loss (M. Link Balanced, Link Homsten-1, 15, Films Interase-1, 15, Films Interase-1, 15</li> <li>Burnet Loss (M. Link Balanced, Link Homsten-1, 15, Films Interase-1, 15</li> <li>Burnet Loss (M. Link Balanced, Link Homsten, 2015 Stange, Linke Interase-1, 15, Films Interase-1, 15</li> <li>Burnet Loss (M. Link Balanced, Link Balanced, Link Balance, Li</li></ul>	The Building Center, C	Gastonia, NC - 28052,	ID:W				
Uniom Loads (pf) Vert 1: 2-20, 2-5-20, 5-7-20, 7-8-20, 8-11-20, 17-20-40, 16-17-60, 12-16-40 6) Dead + 0.6 C-V Mind (No. Internal) Case 1: Lumber Increase-1.60, Plate Increase-1.60 Vert 1: 2-60, 2-28-30, 7-20-25, 7-20-35, 11-26-25, 2-20-21, 11-12-22 10 Dead + 0.6 C-V Wind (No. Internal) Case 2: Lumber Increase-1.60 Vert 1: 2-70, 2-20-30, 2-20-35, 7-20-35, 11-26-30, 2-20-31, 11-26-31 10 Dead + 0.6 C-V Wind (No. Internal) Case 2: Lumber Increase-1.60 Vert 1: 2-72, 2-20, 2-25-37, 2-20-35, 11-28-30, 2-20-31, 11-26-31 11 Dead + 0.8 C-V Wind (No. Internal) Case 1: Lumber Increase-1.60 Vert 1: 2-72, 2-20, 2-25-32, 2-7-42, 7-8-42, 8-11-32, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-20, 2-5-74, 2-7, 4-42, 8-11-32, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-20, 2-74, 7-74-42, 8-11-32, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-7, 1-74, 2-7, 4-42, 8-11-32, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-7, 1-74, 2-7, 1-42, 2-20-10, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-7, 1-74, 2-7, 1-442, 8-11-32, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-70, 1-74, 2-7, 1-16-2, 2-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-70, 1-74, 2-7, 1-12-2, 2-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 2-70, 1-74, 2-7, 1-11-2, 2-20-20, 16-17-40, 12-16-20 Vert 1: 2-72, 2-70, 1-77, 1-74, 2-20-11, 11-2-21 10 Dead - 0.6 MWFRS Wind (No., Internal) Lumber Increase=-1.60, Plate Increase=-1.60 Uniform Loads (pf) Vert 1: 2-73, 2-76, 77, 1-77, 2-76, 74, 1-71, 2-20-16, 17-172, 12-17, 2-17, 12-12, 2-16, 17-20, 12-16-12 Vert 1: 2-73, 2-76, 77, 1-17, 2-20-16, 11-12-15 11 Dead - 0.6 MWFRS Wind (No., Internal) Lumber Increase=-1.60, Plate Increase=-1.60 Uniform Loads (pf) Vert 1: 2-73, 2-56, 77-87, 78-20, 8-11-20, 17-20-20, 16-17-40, 12-16-20 Vert 1: 2-73, 2-76, 77-11, 77, 2-20, 11-11-2, 2-20-20, 16-17-20, 12-16-20 Vert 1: 2-74, 2-77-27, 71-11-2, 2-20-6, 11-12-21 11 Dead - 0.6 MWFRS Wind (No., Internal) Lumber Increase=-1.60, Plate Increase=-1.60 Uniform Loads (pf) Vert 1: 2-76, 2-56-7, 78-6, 78-6, 8-11	LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-2=-51, 2 2) Dead + Roof Live (balau Uniform Loads (plf) Vert: 1-2=-60, 2 3) Dead + 0.75 Roof Live ( Uniform Loads (plf) Vert: 1-2=-50, 2 4) Dead + 0.75 Snow (bala Uniform Loads (plf) Vert: 1-2=-43, 2 5) Dead + 0.75 Snow (Unt Uniform Loads (plf) Vert: 1-2=-43, 2 6) Dead + 0.75 Snow (Unt Uniform Loads (plf) Vert: 1-2=-27, 2	d 2-5=-51, 5-7=-61, 7-8=-61, 8- nced): Lumber Increase=1.15 2-5=-60, 5-7=-70, 7-8=-70, 8- (balanced) + 0.75 Uninhab. A 2-5=-50, 5-7=-60, 7-8=-60, 8- anced) + 0.75 Uninhab. Attic 2-5=-43, 5-7=-53, 7-8=-53, 8- bal. Left) + 0.75 Uninhab. Attic 2-5=-43, 5-24=-53, 7-24=-75, bal. Right) + 0.75 Uninhab. At 2-5=-27, 5-7=-37, 7-27=-75, 8	11=-51, 17-20=-20, 16-17=-40, 12-16=-20 , Plate Increase=1.15 11=-60, 17-20=-20, 16-17=-40, 12-16=-20 ttic Storage: Lumber Increase=1.15, Plate Inc 11=-50, 17-20=-20, 16-17=-40, 14-16=-50, 12 Storage: Lumber Increase=1.15, Plate Increa 11=-43, 17-20=-20, 16-17=-40, 14-16=-50, 12 c Storage: Lumber Increase=1.15, Plate Increa 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 14 tic Storage: Lumber Increase=1.15, Plate Inc h-27=-53, 8-11=-43, 17-20=-20, 16-17=-40, 14	Ye?dzY3Yh crease=1.15 2-14=-20 se=1.15 2-14=-20 ase=1.15 1-16=-50, 12 rease=1.15	uLGtsyuO 2-14=-20	c 14 2023 MiTek Industries, Inc. Tue Jan 9 10:1	
<ul> <li>B) Beal + 0.6 CC Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60</li> <li>Vent: 1-2-38, 2: 2: 3: 2: 3: 2: 3: 1: 3: 5: 7: 2: 3: 2: 3: 1: 1: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:</li></ul>	Uniform Loads (plf)	ů –					
<ul> <li>(a) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60</li> <li>Vert: 1-2-81, 2-6-13, 5-25-83, 7-25-13, 7-83, 8-28-13, 11-22-18, 17-20-12, 16-17=-32, 12-16-12</li> <li>Hazz, 12-20, 2-25-27, 7-22-5, 7-25-25, 7-25-25, 7-25-27, 7-25-25, 7-25-25, 7-25-25, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-25-27, 7-27</li></ul>	8) Dead + 0.6 C-C Wind (F Uniform Loads (plf) Vert: 1-2=38, 2	Pos. Internal) Case 1: Lumber	r Increase=1.60, Plate Increase=1.60 5=13, 8-26=3, 8-11=13, 17-20=-12, 16-17=-32	2, 12-16=-12	2		
<ul> <li>10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60, Uniform Loads (plf)</li> <li>Vert 1: 2-12, -25, -72, -27, -74, -22, -21, -121, -22, -030, -111-223, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-22, -230, -111-223, -111-223, -111-223, -111-23, -230, -111-223, -111-223, -111-22, -230, -111-223, -111-223, -111-223, -111-23, -230, -111-223, -111-23, -111-23, -230, -111-223, -111-23, -111-23, -230, -111-223, -111-243, -111-23, -230, -111-243, -111-23, -230, -111-243, -111-24, -</li></ul>	Uniform Loads (plf) Vert: 1-2=8, 2-8	5=13, 5-25=3, 7-25=13, 7-8=3	3, 8-28=13, 11-28=18, 17-20=-12, 16-17=-32,	12-16=-12			
<ul> <li>11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Piate Increase=1.60</li> <li>12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Piate Increase=1.60</li> <li>13) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Piate Increase=1.60</li> <li>14) Dead + 0.6 MWFRS Wind (Pos. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>15) Dead + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>16) Dead + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>17) Dead + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>18) Dead + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>11) Deat + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>11) Deat + 0.6 MWFRS Wind (Neg. Internal) Reft: Lumber Increase=1.60, Piate Increase=1.60</li> <li>11) Inform Loads (pf)</li> <li>12.1.2.2.3.2.7.2.7.7.7.11.8.2.2.0.2.2.11.12.8.1</li> <li>13.2.2.2.2.1.2.1.2.8.1.2.2.2.1.2.1.2.1.2.1</li></ul>	10) Dead + 0.6 C-C Wind Uniform Loads (plf) Vert: 1-2=-12,	(Neg. Internal) Case 1: Lumb	er Increase=1.60, Plate Increase=1.60 8-11=-32, 17-20=-20, 16-17=-40, 12-16=-20				
Hor:: 1-2e, 2, 2-12, 7-11-12, 2-20-23, 11-12-30 2) Deat 4 0.6 MWFRS Wind (Pos. Internal) Left. Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e1, 2, 25-0, 5-710, 7-8-5, 81-15, 17-20-12, 16-17-32, 12-16-12 Hor:: 1-2e1, 2-5-0, 5-75, 7-8-10, 8-110, 17-20-12, 16-17-32, 12-16-12 Hor:: 1-2e1, 2-5-0, 5-75, 7-8-10, 8-110, 17-20-12, 16-17-32, 12-16-12 Hor:: 1-2e1, 2-5-0, 5-75, 7-8-10, 8-110, 17-20-12, 16-17-32, 12-16-12 Hor:: 1-2e1, 3, 2-7-17, 7-11=12, 2-20-15, 11-12-13 4) Deat 4 0, 6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e-3, 2-7-7, 7-11=8, 2-20-22, 11-12-6 5) Deat 4 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e-7, 2-5-12, 5-7-8-27, 8-37, 8-11=2, 77-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-7, 2-5-12, 5-7-8-27, 8-37, 8-11=2, 77-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-7, 2-7-7, 7-11=8, 2-20-29, 11-12-22 16) Dead 4 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e-23, 2-7-8, 7, 11=26, 2-20-12, 16-17=-32, 12-16=-12 Hor:: 1-2e-30, 7-7=-25, 7-11=27, 2-20-8, 11-12-21 Hor:: 1-2e-30, 7-7=-25, 7-11=27, 2-20-9, 11-12-21 Hor:: 1-2e-30, 7-7=-25, 7-11=27, 2-20-9, 11-12-19 17) Dead + 0.6 MWFRS Wind (Pos. Internal) Right Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e-18, 2-5=-45, 5-7=-6, 7-8=-6, 8-11=4, 17-20-12, 16-17=-32, 12-16=-12 Hor:: 1-2e-30, 7-7=57, 7-11=27, 2-20-19, 11-12-19 18) Dead + 0.6 MWFRS Wind (Neg. Internal) Right Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl) Vert: 1-2e-18, 2-57=-45, 7-7=6, 7-8=-6, 8-11=4, 17-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-40, 2-7=16, 7-7=6, 7-8=-6, 8-11=4, 17-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-40, 2-7=16, 7-7=6, 7-8=-6, 8-1=6, 8-11=-21, 17-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-40, 2-15, 7-5=31, 7-8=-31, 8-11=-21, 17-20-20, 16-17=-40, 12-16=-20 Hor:: 1-2e-41, 2-5=-21, 5-7=-31, 7-8	11) Dead + 0.6 C-C Wind Uniform Loads (plf)	(Neg. Internal) Case 2: Lumb	er Increase=1.60, Plate Increase=1.60				
<ul> <li>(3) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pl)</li> <li>Vert: 1-2=1, 2-5=5, 5-7=5, 7-8=+10, 8-11=-0, 17-20=-12, 16-17=-32, 12-16=-12</li> <li>Horz: 1-2=-13, 2-5=-5, 7-8=+10, 8-11=-0, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-2, 2, 2-5=-27, 7-7, 7-8=-22, 8-11=-12, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-7, 2, 2-7=-7, 7-11=-6, 2-20=22, 11-12=-6</li> <li>Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60</li> <li>Uniform Loads (pl)</li> <li>Vert: 1-2=-7, 2, 5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-7, 2, 5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-13, 2-7=-8, 7-11=-7, 2-20=-6, 11-12=-21</li> <li>Edd + 0.6 MWFRS Wind (Pos. Internal) Ist Parallel: Lumber Increase=1.60, Plate Increase=1.60</li> <li>Uniform Loads (pl)</li> <li>Vert: 1-2=-25, 2-5=-13, 5-7=-37, 7-8=-3, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-12</li> <li>Horz: 1-2=-25, 2-5=-13, 5-7=-37, 7-8=-3, 8-11=-13, 17-20=-12, 16-17=-32, 12-16=-12</li> <li>Horz: 1-2=-6, 2-5=-4, 5-7==-6, 8-11=4, 17-20=-12, 16-17=-32, 12-16=-12</li> <li>Horz: 1-2=-16, 2-5=-4, 5-7==-6, 8-11=4, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-4, 2-5=-21, 5-7=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-4, 2-5=-21, 5-7=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-4, 2-5=-21, 5-7=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>Horz: 1-2=-51, 2-5=-20, 5-7=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20&lt;</li></ul>	Horz: 1-2=8, 2 12) Dead + 0.6 MWFRS W Uniform Loads (plf)	2-7=12, 7-11=-12, 2-20=-23, /ind (Pos. Internal) Left: Luml	11-12=-30 ber Increase=1.60, Plate Increase=1.60				
<ul> <li>14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=, 2, 7-7, 7-11=6, 2-20=22, 11-12=6</li> <li>15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=, 7, 2-5=-12, 5-7=22, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=, 7, 2-5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=, 7, 2-5=-13, 5-7=3, 7-8=3, 8-11=-27, 17-20=-20, 16-17=-32, 12-16=-20 Horz: 1-2=, 7, 2-5=-13, 5-7=3, 7-8=3, 8-11=-21, 17-20=-20, 16-17=-32, 12-16=-12 Horz: 1-2=, 37, 2-7=25, 7-11=25, 2-20=-19, 11-12=19</li> <li>17) Dead + 0.6 MWFRS Wind (Pos. Internal) Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=16, 2-5=4, 5-7=-6, 7-8=-6, 8-11=4, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-28, 2-7=16, 7-11=6, 2-20=-19, 11-12=19</li> <li>18) Dead + 0.6 MWFRS Wind (Pog. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=-13, 7-11=6, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=-1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=-1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>20) Dead + Snow (Drehangs: Lumber Increase=1.15, Plate Increase=1.61</li> <li>20) Dead + Snow (Unchal. Left); Lumber Increase=1.15, Plate Increase=1.15</li> <li>21) Dead + Snow (Unchal. Left); Lumber Increase=1.15, Plate Increase=1.15</li> <li>22) Dead + Snow (Unchal. Left); Lumber Increase=1.15, Plate Increase=1.15</li> <li>23) Dead + Sno</li></ul>	13) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind (Pos. Internal) Right: Lur	nber Increase=1.60, Plate Increase=1.60				
<ul> <li>Horz: 1-2-3, 2-7-7, 7-11=8, 2-20=22, 11-12=6</li> <li>15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif)</li> <li>Vert: 1-27, 2-512, 5-7-22, 7-8-37, 8-11=-27, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-13, 2-7-8, 7, 11+a-7, 2-20-6, 11-12=-22</li> <li>16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif)</li> <li>Vert: 1-2-25, 2-5-13, 5-7-3, 7-8-3, 8-11=13, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-37, 2-7-a-25, 7-11=25, 2-20=-19, 11-12=19</li> <li>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif)</li> <li>Vert: 1-2-16, 2-5=4, 5-7=6, 7-8=-6, 8-11=4, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-38, 2-7=16, 7-11=16, 2-20=-19, 11-12=19</li> <li>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif)</li> <li>Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=4, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif)</li> <li>Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11==21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=4, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60</li> <li>Uniform Loads (pif)</li> <li>Vert: 1-2=-16, 2-5=-21, 5-7=-31, 8-11==21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=4, 2-20=-10, 11-12=10</li> <li>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15</li> <li>Uniform Loads (pif)</li> <li>Vert: 1-2=-51, 2-5=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15</li> <li>Uniform Loads (pif)</li> <li>Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40,</li></ul>	14) Dead + 0.6 MWFRS V Uniform Loads (plf)	vind (Neg. Internal) Left: Lum	ber Increase=1.60, Plate Increase=1.60				
Horz: 1-213, 2-7=-8, 7-11=-7, 2-20=-6, 11-12=-22         16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60         Uniform Loads (pf)         Vert: 1-2=25, 2-5=13, 5-7=-3, 7-8=3, 8-11=13, 17-20=-12, 16-17=-32, 12-16=-12         Horz: 1-2=-37, 2-7=-25, 7-11=25, 2-20=-19, 11-12=19         7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60         Uniform Loads (pf)         Vert: 1-2=-28, 2-7=-16, 7-11=16, 2-20=-19, 11-12=19         18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60         Uniform Loads (pf)         Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20         Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10         19) Dead + 0.6 MWFRS Wind (Neg. Internal) Parallel: Lumber Increase=1.60, Plate Increase=1.60         Uniform Loads (pf)         Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20         Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10         19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60         Uniform Loads (pf)         Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20         10) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15         Uniform Loads (pfl)         Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-1	Horz: 1-2=3, 2 15) Dead + 0.6 MWFRS W	2-7=7, 7-11=8, 2-20=22, 11-1	2=6				
<ul> <li>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=16, 2-5=4, 5-7=-6, 7-8=-6, 8-11=4, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-28, 2-7=-16, 7-11=16, 2-20=-19, 11-12=19</li> <li>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20</li> </ul>	Horz: 1-2=-13 16) Dead + 0.6 MWFRS V Uniform Loads (plf)	6, 2-7=-8, 7-11=-7, 2-20=-6, 1 /ind (Pos. Internal) 1st Paralle	1-12=-22 el: Lumber Increase=1.60, Plate Increase=1.6	60			
<ul> <li>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)</li> <li>Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)</li> <li>Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)</li> <li>Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>21) Dead + Snow (Inbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)</li> <li>Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20</li> </ul>	17) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=16,	Vind (Pos. Internal) 2nd Paral 2-5=4, 5-7=-6, 7-8=-6, 8-11=-	el: Lumber Increase=1.60, Plate Increase=1. 4, 17-20=-12, 16-17=-32, 12-16=-12	60			
<ul> <li>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=10</li> <li>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20</li> </ul>	18) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-16,	Vind (Neg. Internal) 1st Parall , 2-5=-21, 5-7=-31, 7-8=-31, 8	el: Lumber Increase=1.60, Plate Increase=1.6 3-11=-21, 17-20=-20, 16-17=-40, 12-16=-20	60			
<ul> <li>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20</li> <li>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20</li> </ul>	19) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-16,	Vind (Neg. Internal) 2nd Paral , 2-5=-21, 5-7=-31, 7-8=-31, 8	lel: Lumber Increase=1.60, Plate Increase=1. 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20	60			
Uniform Loads (plf) Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-90, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20	20) Dead + Snow on Over Uniform Loads (plf) Vert: 1-2=-51,	hangs: Lumber Increase=1.1 , 2-5=-20, 5-7=-30, 7-8=-30, 8	5, Plate Increase=1.15 8-11=-20, 17-20=-20, 16-17=-40, 12-16=-20				
	Uniform Loads (plf) Vert: 1-2=-51,	, 2-5=-51, 5-24=-61, 7-24=-90	), 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, <sup>2</sup>	2-16=-20			

WARNING- Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

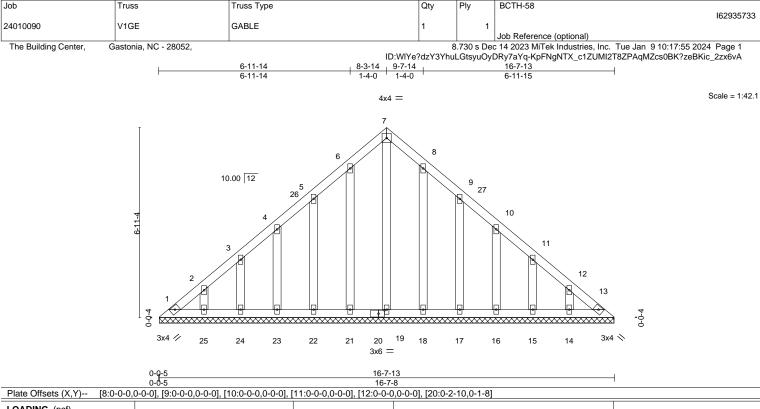


Job	Truss	Truss Type	Qty	Ply	BCTH-58 (6293573
24010090	A2	COMMON	8	1	
					Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,		ID:WIYe?dzY3		ec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:17:51 2024 Page 3 DyDRy7aYq-R10tq0Q1xNX80I_HEIUT0_BfWFRCO1q3GjkPrHzx6vE
			12.0010.0210	muEoloyue	
LOAD CASE(S) Stan					
Uniform Loads (plf		27 00 8 27 61 8 11 61 17 20 20		<b>`</b>	
		-27=-90, 8-27=-61, 8-11=-51, 17-20=-20, er Increase=1.25, Plate Increase=1.25	10-17=-40, 12-16=-20	)	
Uniform Loads (plf	•				
		-8=-30, 8-11=-20, 17-20=-20, 16-17=-40,	14-16=-60, 12-14=-20	)	
,	· · /	Attic Storage + 0.75(0.6 MWFRS Wind (Ne	eg. Int) Left): Lumber I	ncrease=1	.60, Plate Increase=1.60
Uniform Loads (plf	/				
	=45, 2-5=-49, 5-7=-59, 7 =2, 2-7=6, 7-11=6, 2-20=	-8=-47, 8-11=-37, 17-20=-20, 16-17=-40, 16-17	14-16=-50, 12-14=-20	)	
		Attic Storage + 0.75(0.6 MWFRS Wind (Ne	a Int) Right): Lumber	r Increase=	1 60 Plate Increase=1 60
Uniform Loads (plf	· · /		g. my rugny. Euribol	111010000-	1.00, 1.100 11010000-1.00
		-8=-59, 8-11=-49, 17-20=-20, 16-17=-40,	14-16=-50, 12-14=-20	)	
	=-10, 2-7=-6, 7-11=-6, 2-				
		Attic Storage + 0.75(0.6 MWFRS Wind (Ne	eg. Int) 1st Parallel): L	umber Incr	ease=1.60, Plate Increase=1.60
Uniform Loads (plf	/	-8=-54, 8-11=-44, 17-20=-20, 16-17=-40,	14-1650 12-1420	<b>)</b>	
	=-3, 2-7=1, 7-11=-1, 2-2		14-10-30, 12-14-20	,	
		Attic Storage + 0.75(0.6 MWFRS Wind (Ne	g. Int) 2nd Parallel): L	_umber Inc	rease=1.60, Plate Increase=1.60
Uniform Loads (plf	)	<b>.</b>	, , , , , , , , , , , , , , , , , , ,		
	, , ,	-8=-54, 8-11=-44, 17-20=-20, 16-17=-40,	14-16=-50, 12-14=-20	)	
	=-3, 2-7=1, 7-11=-1, 2-2				a 1.00 Plata Ingrange 1.00
Uniform Loads (plf		ab. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) Left): Lum	ber increas	e=1.60, Plate increase=1.60
		-8=-54, 8-11=-44, 17-20=-20, 16-17=-40,	14-16=-50, 12-14=-20	)	
	=2, 2-7=6, 7-11=6, 2-20=		, -		
,	· · ·	ab. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) Right): Lun	nber Increa	se=1.60, Plate Increase=1.60
Uniform Loads (plf			4440 50 40 44 00		
	፦40, 2-5=-44, 5-7=-54, 7 =-10, 2-7=-6, 7-11=-6, 2·	-8=-66, 8-11=-56, 17-20=-20, 16-17=-40, 10-20-5, 11-1216	14-16=-50, 12-14=-20	)	
		ab. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 1st Paralle	I): Lumber	Increase=1.60. Plate Increase=1.60
Uniform Loads (plf			(rogrand) rotr arano	.). 20	
		-8=-61, 8-11=-51, 17-20=-20, 16-17=-40,	14-16=-50, 12-14=-20	)	
	=-3, 2-7=1, 7-11=-1, 2-2	,			
31) Dead + 0.75 Root Uniform Loads (plf		ab. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 2nd Paralle	el): Lumber	Increase=1.60, Plate Increase=1.60
u u	·	-8=-61, 8-11=-51, 17-20=-20, 16-17=-40,	14-16=-50 12-14=-20	)	
	=-3, 2-7=1, 7-11=-1, 2-2		14 10= 30, 12 14= 20	,	
34) 1st Dead + Roof L	ive (unbalanced): Lumbe	er Increase=1.15, Plate Increase=1.15			
Uniform Loads (plf					
		-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 14-17	12-16=-20		
Uniform Loads (plf	( )	er Increase=1.15, Plate Increase=1.15			
		-8=-70, 8-11=-60, 17-20=-20, 16-17=-40,	12-16=-20		
		0.75 Uninhab. Attic Storage: Lumber Incre		ease=1.15	
Uniform Loads (plf	)	Ū.			
		-8=-30, 8-11=-20, 17-20=-20, 16-17=-40,			
37) 4th Dead + 0.75 R Uniform Loads (plf		0.75 Uninhab. Attic Storage: Lumber Incre	ease=1.15, Plate Incre	ease=1.15	
Uniform Loads (pir		9 60 8 11 E0 17 20 20 16 17 40 5	4440 50 40 44 00	<b>`</b>	

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

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LOADING         (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.08 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 13	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 110 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER-			ACING-	<b>O</b> (1)		н а		
TOP CHORD 2x4 SP No.2							plied or 6-0-0 oc purlins	
BOT CHORD 2x4 SP No.2		BC	DT CHORD	Rigid ceiling di	rectly app	lied or 10-0-0	) oc bracing.	

BOT CHORD 2x4 SP No 2 OTHERS 2x4 SP No 3

REACTIONS. All bearings 16-7-3.

(lb) -Max Horz 1=119(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14

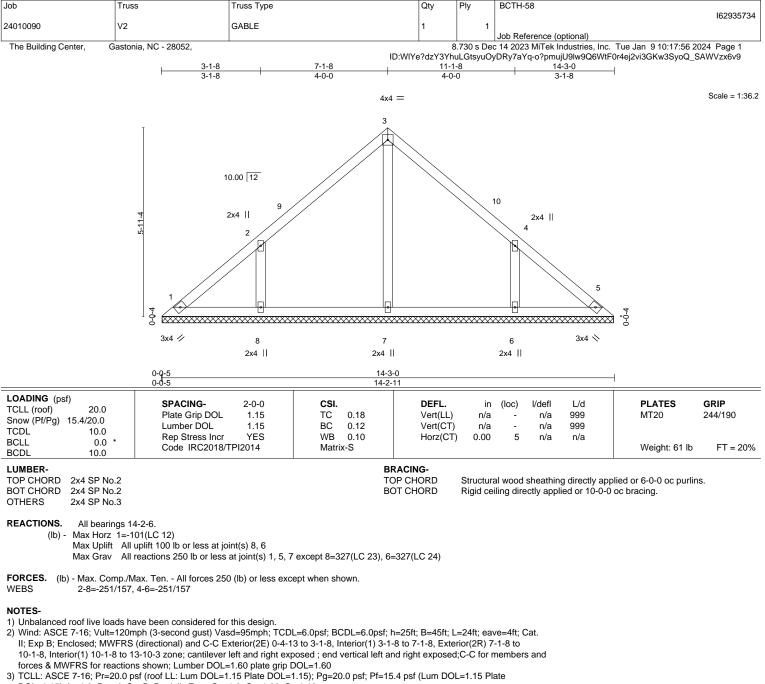
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-3-14, Exterior(2R) 8-3-14 to 11-3-14, Interior(1) 11-3-14 to 16-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14.
- 8) Non Standard bearing condition. Review required.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

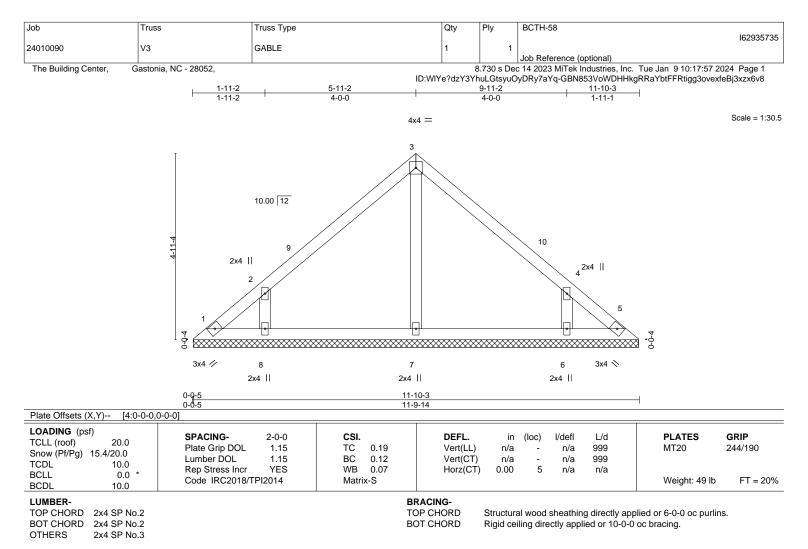


- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf 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) 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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A MiTek Affi 818 Soundside Road



REACTIONS. All bearings 11-9-10.

(lb) - Max Horz 1=-83(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=301(LC 23), 6=301(LC 24)

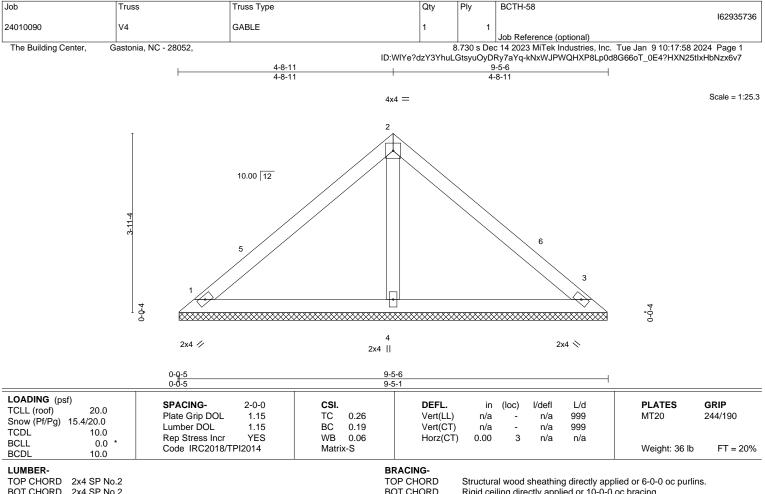
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-2, Exterior(2R) 5-11-2 to 8-11-2, Interior(1) 8-11-2 to 11-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 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) 1, 5, 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

REACTIONS. (size) 1=9-4-13, 3=9-4-13, 4=9-4-13

Max Horz 1=65(LC 13)

Max Uplift 1=-15(LC 14), 3=-15(LC 14)

Max Grav 1=183(LC 2), 3=183(LC 2), 4=325(LC 2)

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

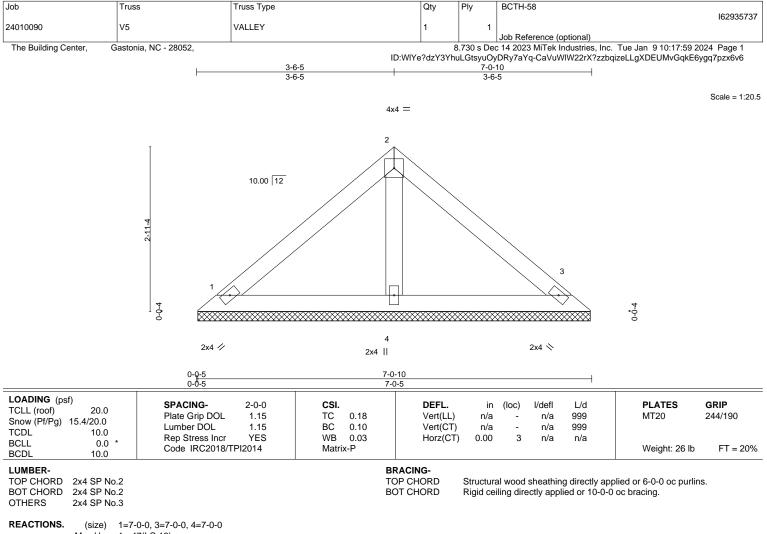
## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-8-11, Exterior(2R) 4-8-11 to 7-8-11, Interior(1) 7-8-11 to 9-0-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 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) 1, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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Max Horz 1=7-0-0, 3=7-0-0, 4=7-0-0 Max Horz 1=-47(LC 12) Max Uplift 1=-17(LC 14), 3=-17(LC 14)

Max Grav 1=143(LC 2), 3=143(LC 2), 4=213(LC 2)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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.

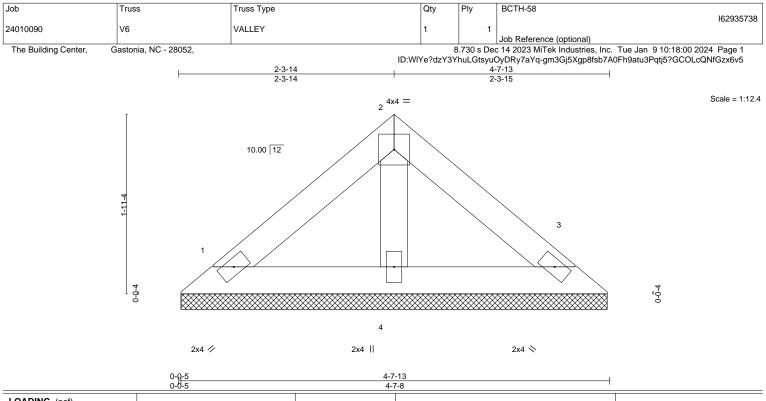
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) Non Standard bearing condition. Review required.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           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 IRC2018/TPI2014	CSI. TC 0.07 BC 0.04 WB 0.02 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER-		BI	RACING-						

TOP CHORD

BOT CHORD

## LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

REACTIONS. (size) 1=4-7-3, 3=4-7-3, 4=4-7-3

Max Horz 1=29(LC 13)

Max Uplift 1=-11(LC 14), 3=-11(LC 14)

Max Grav 1=88(LC 2), 3=88(LC 2), 4=131(LC 2)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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) 1, 3.

7) Non Standard bearing condition. Review required.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

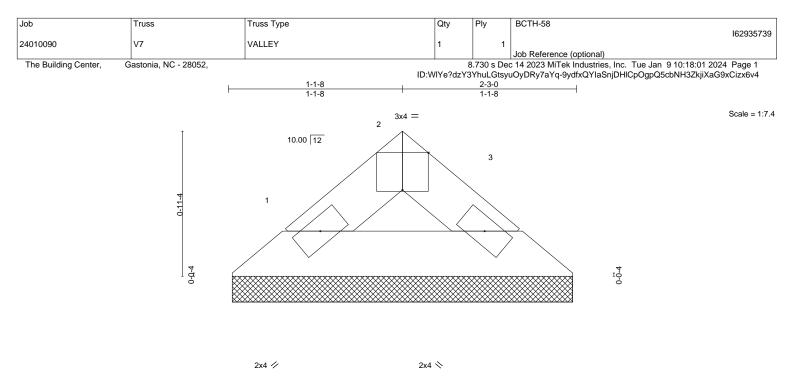


Structural wood sheathing directly applied or 4-7-13 oc purlins.

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

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818 Soundside Road



1	2-2-11	2-3 <sub>0</sub>
	2-2-11	0-0-5
2-0,Edge]		

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	<b>CSI.</b> TC 0.01 BC 0.02 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 6 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING- OP CHORD	Structural	wood	sheathin	a directlv ac	plied or 2-3-0 oc purl	lins.

BOT CHORD

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

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

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

REACTIONS. (size) 1=2-2-6, 3=2-2-6 Max Horz 1=-11(LC 12) Max Crav 1 59(1 C 2) 2 59

Max Grav 1=58(LC 2), 3=58(LC 2)

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

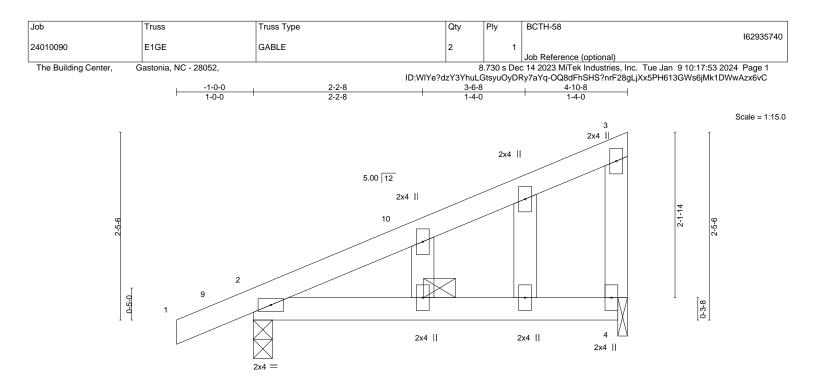
## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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A MiTek Affil 818 Soundside Road Edenton, NC 27932



LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.29 WB 0.00 Matrix-P	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	<b>GRIP</b> 244/190 FT = 20%
BCDL 10.0	Code IRC2018/1P12014	Matrix-P						weight: 23 lb	FT = 20%

LOWIDER-		DRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-8 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	3-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16) Max Grav 2=301(LC 21), 4=216(LC 21)

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

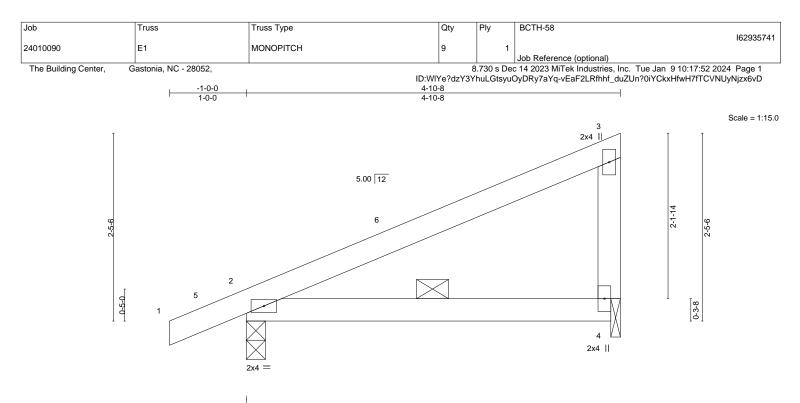
## NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-12 zone; cantilever left and right exposed ; end vertical left and right 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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818 Soundside Road



TCLL (roof)         20.0         Of Ref Ref DOL         1.15         TC         0.49           Snow (Pf/Pg)         15.4/20.0         Lumber DOL         1.15         BC         0.29           TCDL         10.0         Lumber DOL         1.15         BC         0.29           BCLL         0.0 *         Rep Stress Incr         YES         WB         0.00           BCDL         10.0         Code IRC2018/TPI2014         Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 244/190 FT = 20%
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TOP CHORD

BOT CHORD

### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16) Max Grav 2=301(LC 21), 4=216(LC 21)

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

### NOTES-

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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.
- 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-10-8 oc purlins,

except end verticals

3-0-0 oc bracing.

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