

Trenco 818 Soundside Rd Edenton, NC 27932

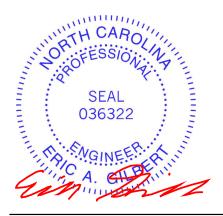
Re: 24031272 BCTH-35

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: I64319404 thru I64319409

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

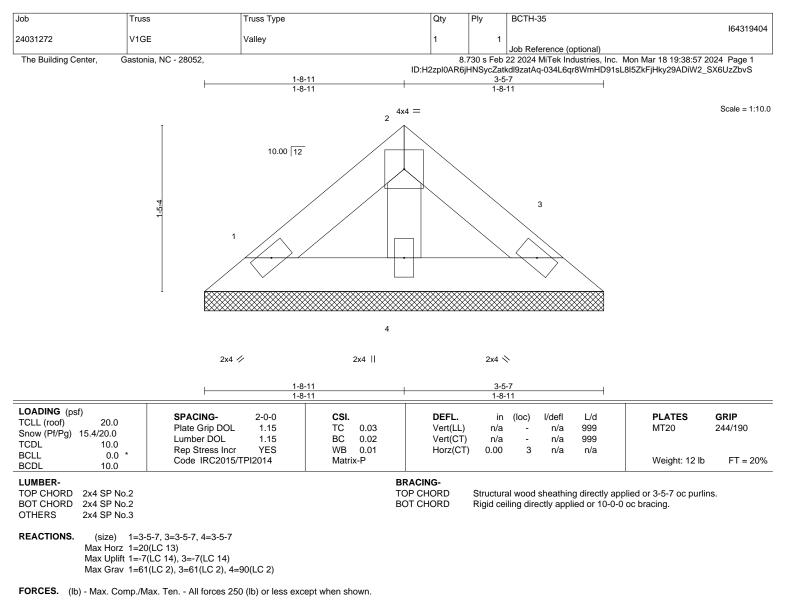
North Carolina COA: C-0844



March 20,2024

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.



NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

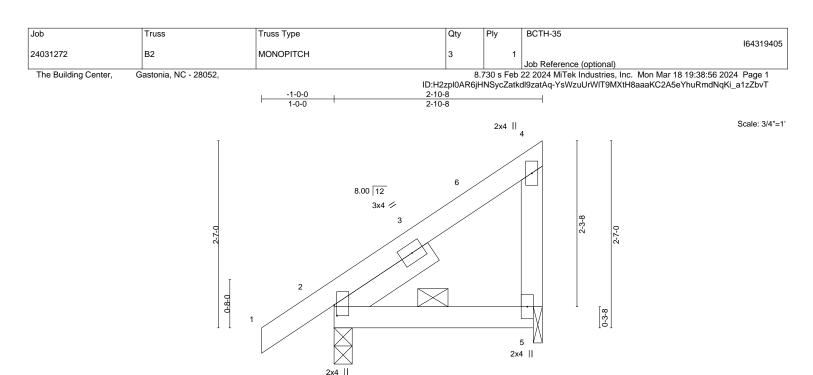


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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.sbcacomponents.com)



818 Soundside Road

Edenton, NC 27932



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Plate Offsets ((X,Y) [2:0-1-13,	0-0-7]										
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC BC WB Matri	0.11 0.08 0.00 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 0.00	(loc) 2-5 2-5 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3	1-6-13					Structura except e 1-6-0 oc	nd verti	icals.	ng directly a	applied or 2-10-8 oc purli	ins,

REACTIONS. (size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11) Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

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

NOTES-

- Wind: ASCE 7-10; Vult=120mph 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(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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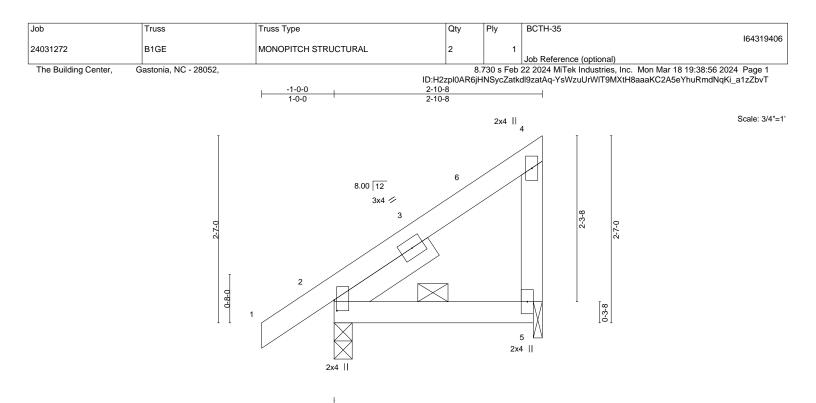


Plate Offsets (X,Y) [2:0-1-1:	3,0-0-7]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.11 BC 0.08 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 2-5 -0.01 2-5 0.00 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No	.3 1-6-13	ТС	e	Structural wood except end vert 1-6-0 oc bracing	cals.	ng directly ap	pplied or 2-10-8 oc purl	ins,

REACTIONS. (size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11) Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

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

NOTES-

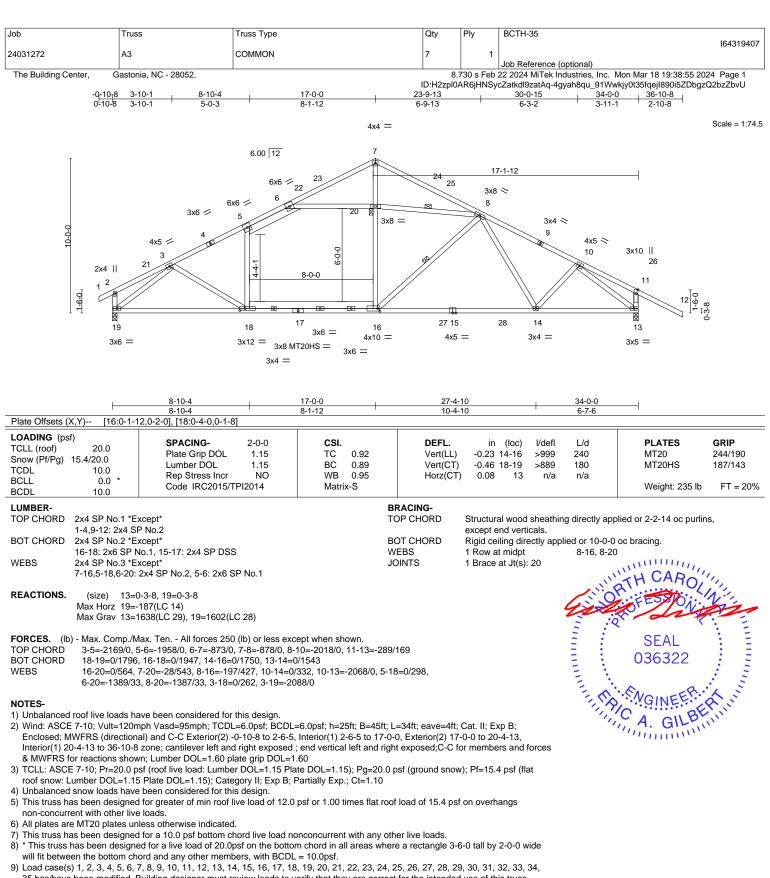
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) Gable studs spaced at 1-4-0 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

SEAL 036322 March 20,2024

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35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-51, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-51, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-35	
24031272	A3	COMMON	7	1		l64319407
		COMMON			Job Reference (optional)	
The Building Center,	Gastonia, NC - 28052,				b 22 2024 MiTek Industries, Inc. Mon Mar 1 SycZatkdl9zatAq-4gyah8qu_91Wwkjy0t35fqe	
			,	, .	,	,
 LOAD CASE(S) Stand 2) Dead + Roof Live (backless) 	aro alanced): Lumber Increase=1.1	5, Plate Increase=1.15				
Uniform Loads (plf)			10.10 00.0	2 20 40		
		'-11=-60, 11-12=-60, 18-19=-20, 16-18=-40, Attic Storage: Lumber Increase=1.15, Plate I				
Uniform Loads (plf)			40.07 00 0		42.28 20 0.20 40	
		7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, c Storage: Lumber Increase=1.15, Plate Incre		27-28=-50	, 13-28=-20, 6-20=-10	
Vert: 1-2=-4		7-11=-43, 11-12=-43, 18-19=-20, 16-18=-70,		27-28=-50	, 13-28=-20, 6-20=-10	
5) Dead + 0.75 Snow (I Uniform Loads (plf)	Jnbal. Left) + 0.75 Uninhab. At	tic Storage: Lumber Increase=1.15, Plate Inc	crease=1.15			
		7-22=-65, 7-11=-27, 11-12=-27, 18-19=-20, Attic Storage: Lumber Increase=1.15, Plate Ir			, 27-28=-50, 13-28=-20, 6-20=-10	
Uniform Loads (plf)	nibal. Right) + 0.75 Ohinihab. 7	Alle Slorage. Lumber increase=1.15, Flate in		5		
		7-25=-63, 11-25=-43, 11-12=-43, 18-19=-20, er Increase=1.25, Plate Increase=1.25	16-18=-70, 1	16-27=-20	, 27-28=-50, 13-28=-20, 6-20=-10	
Uniform Loads (plf)	C C					
		7-11=-20, 11-12=-20, 18-19=-40, 16-18=-60, er Increase=1.60, Plate Increase=1.60	13-16=-40, 6	6-20=-10		
Uniform Loads (plf)	. ,					
		7=14, 7-24=24, 11-24=14, 11-12=9, 18-19=-´ 6, 11-24=26, 11-12=21, 2-19=14, 11-13=26	12, 16-18=-3	2, 13-16=-	-12, 6-20=-10	
9) Dead + 0.6 C-C Wind		er Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-2=9,	2-5=14, 5-6=4, 6-23=14, 7-23=	=24, 7-26=14, 11-26=24, 11-12=46, 18-19=-^	12, 16-18=-3	2, 13-16=-	-12, 6-20=-10	
Horz: 1-2=-2	1, 2-23=-26, 7-23=-36, 7-26=2	6, 11-26=36, 11-12=58, 2-19=-26, 11-13=-1				
Uniform Loads (plf)	id (Neg. Internal) Case 1: Lum	ber Increase=1.60, Plate Increase=1.60				
		7-11=-33, 11-12=-28, 18-19=-20, 16-18=-40	, 13-16=-20,	6-20=-10		
	-8, 2-7=13, 7-11=-13, 11-12=-8 nd (Neg. Internal) Case 2: Lum	ber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	28 2-533 5-643 6-733	7-11=-33, 11-12=-12, 18-19=-20, 16-18=-40	13-1620	6-2010		
	8, 2-7=13, 7-11=-13, 11-12=8,		, 13-10=-20,	0-20=-10		
12) Dead + 0.6 MWFRS Uniform Loads (plf)	S Wind (Pos. Internal) Left: Lur	nber Increase=1.60, Plate Increase=1.60				
	2, 2-5=-0, 5-6=-10, 6-7=-0, 7-1	1=5, 11-12=1, 18-19=-12, 16-18=-32, 13-16	=-12, 6-20=-	10		
	-24, 2-7=-12, 7-11=17, 11-12=	13, 2-19=13, 11-13=15 umber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
	, 2-5=5, 5-6=-5, 6-7=5, 7-11=- -13, 2-7=-17, 7-11=12, 11-12=	0, 11-12=12, 18-19=-12, 16-18=-32, 13-16=- 24 2-19=-15 11-13=-13	12, 6-20=-10)		
14) Dead + 0.6 MWFRS		nber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-2=-	23. 2-5=-27. 5-6=-37. 6-7=-27.	7-11=-12, 11-12=-7, 18-19=-20, 16-18=-40,	13-16=-20.6	6-20=-10		
Horz: 1-2=	3, 2-7=7, 7-11=8, 11-12=13, 2-	19=22, 11-13=6				
15) Dead + 0.6 MWFRS Uniform Loads (plf)	S Wind (Neg. Internal) Right: L	umber Increase=1.60, Plate Increase=1.60				
Vert: 1-2=-		7-11=-27, 11-12=-23, 18-19=-20, 16-18=-40,	13-16=-20, 6	6-20=-10		
	-13, 2-7=-8, 7-11=-7, 11-12=-3 S Wind (Pos. Internal) 1st Para	, 2-19=-6, 11-13=-22 Ilel: Lumber Increase=1.60, Plate Increase=1	1.60			
Uniform Loads (plf)			6 12 6 20	10		
	-37, 2-7=-25, 7-11=25, 11-12=	1=13, 11-12=25, 18-19=-12, 16-18=-32, 13-1 37, 2-19=-19, 11-13=19	0=-12, 0-20=	=-10		
17) Dead + 0.6 MWFRS Uniform Loads (plf)	S Wind (Pos. Internal) 2nd Para	allel: Lumber Increase=1.60, Plate Increase=	1.60			
	6, 2-5=4, 5-6=-6, 6-7=4, 7-11=	4, 11-12=16, 18-19=-12, 16-18=-32, 13-16=	-12, 6-20=-10	0		
	-28, 2-7=-16, 7-11=16, 11-12= Wind (Neg. Internal) 1st Para	28, 2-19=-19, 11-13=19 Illel: Lumber Increase=1.60, Plate Increase=	1 60			
Uniform Loads (plf)	()					
	16, 2-5=-21, 5-6=-31, 6-7=-21, -4, 2-7=1, 7-11=-1, 11-12=4, 2-	7-11=-21, 11-12=-16, 18-19=-20, 16-18=-40 -19=-10, 11-13=10	, 13-16=-20,	6-20=-10		
19) Dead + 0.6 MWFR		allel: Lumber Increase=1.60, Plate Increase=	=1.60			
Uniform Loads (plf) Vert: 1-2=-	16, 2-5=-21, 5-6=-31, 6-7=-21,	7-11=-21, 11-12=-16, 18-19=-20, 16-18=-40	, 13-16=-20,	6-20=-10		
	-4, 2-7=1, 7-11=-1, 11-12=4, 2 verhangs: Lumber Increase=1.					
Uniform Loads (plf)	verhangs. Lumber mcrease=1.	15, Flate Increase=1.15				
	51, 2-5=-20, 5-6=-30, 6-7=-20, al. Left): Lumber Increase=1.1	7-11=-20, 11-12=-51, 18-19=-20, 16-18=-40	, 13-16=-20,	6-20=-10		
Uniform Loads (plf)	,					
	51, 2-5=-51, 5-6=-61, 6-22=-51 al. Right): Lumber Increase=1.	l, 7-22=-80, 7-11=-29, 11-12=-29, 18-19=-20 15_ Plate Increase=1 15	, 16-18=-40,	13-16=-2	0, 6-20=-10	
Uniform Loads (plf)	U ,					
Vert: 1-2=-	29, 2-5=-29, 5-6=-39, 6-7=-29,	7-25=-77, 11-25=-51, 11-12=-51, 18-19=-20	, 16-18=-40,	13-16=-2	0, 6-20=-10	
Continued on page 3						

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Job	Truss	Truss Type	Qty	Ply	BCTH-35
24031272	A3	COMMON	7	1	l64319407
	-				Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,		8	.730 s Feb	22 2024 MiTek Industries, Inc. Mon Mar 18 19:38:55 2024 Page 3

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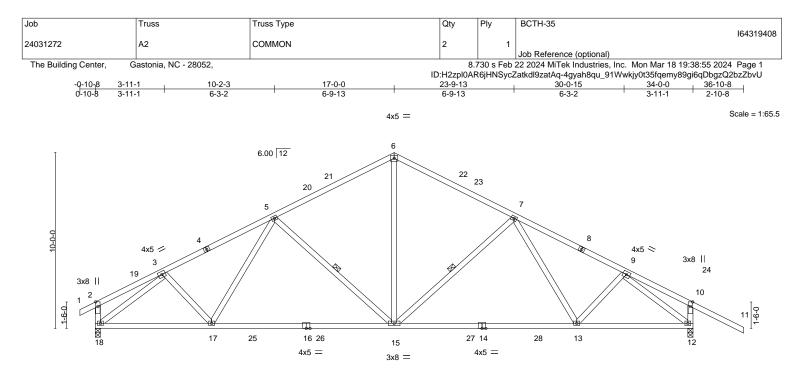
LOAD CASE(S) Standard

- 23) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
- Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-80, 16-27=-20, 27-28=-60, 13-28=-20, 6-20=-10 24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-45, 2-5=-49, 5-6=-59, 6-7=-49, 7-11=-37, 11-12=-34, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-2, 2-7=6, 7-11=6, 11-12=10, 2-19=16, 11-13=5
- 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-34, 2-5=-37, 5-6=-47, 6-7=-37, 7-11=-49, 11-12=-45, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-52, 2-5=-56, 5-6=-66, 6-7=-56, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-19=16, 11-13=5
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2--40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-56, 11-12=-52, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-60, 11-12=-60, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10
- 34) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 35) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

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	6-7-6	1	17-0-0		2	27-4-10		34-0-0		
	6-7-6	I	10-4-1	0	1	0-4-10		6-7-6	1	
TCDL BCLL	f) 20.0 15.4/20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/7	2-0-0 1.15 1.15 YES	CSI. TC 0.7 BC 0.8 WB 0.8 Matrix-S	35 Vert(CT		l/defl L/d >999 240 >811 180 n/a n/a		PLATES MT20 Weight: 203 lb	GRIP 244/190 FT = 20%
BCDL	10.0		112014	Matrix 6	BRACING-				Weight. 200 lb	11 = 20
TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 *Excep	ot*			TOP CHORD	Structural wood except end vertic	0	tly applied	or 3-2-15 oc purlir	IS,
WEBS	14-16: 2x4 SP No.1 2x4 SP No.3				BOT CHORD WEBS	Rigid ceiling dire 1 Row at midpt		10-0-0 oc b 5, 5-15	racing.	

REACTIONS. (size) 18=0-3-8, 12=0-3-8 Max Horz 18=-187(LC 14) Max Uplift 18=-33(LC 16), 12=-88(LC 16) Max Grav 18=1402(LC 2), 12=1537(LC 2)

9-12=-1872/88

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

- TOP CHORD 3-5=-1822/133, 5-6=-1432/173, 6-7=-1432/163, 7-9=-1785/114, 10-12=-279/172
- BOT CHORD 17-18=-1/1550, 15-17=0/1609, 13-15=0/1508, 12-13=0/1373
- WEBS 6-15=-21/885, 7-15=-472/119, 9-13=0/274, 5-15=-491/123, 3-18=-1805/71,

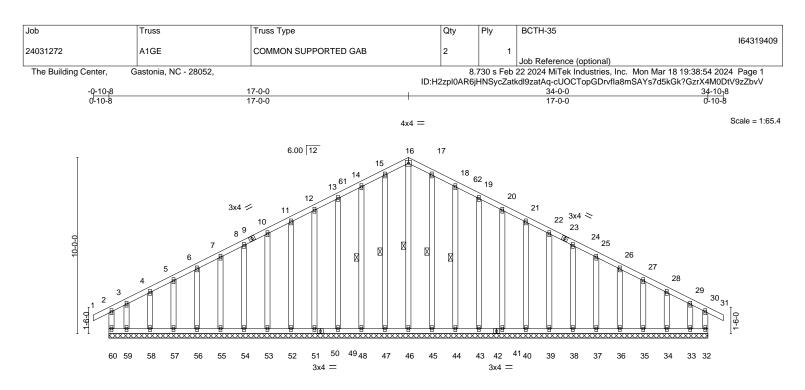
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph 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(2) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-10-8 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) All plates are 3x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12.



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		<u> </u>						
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 IncrYESCodeIRC2015/TPI2014	CSI. TC 0.17 BC 0.09 WB 0.10 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 31 -0.00 31 -0.00 32	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 310 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2			ACING- P CHORD	Structural wood		ig directly app	plied or 6-0-0 oc purlins	ς,

WFBS

2x4 SP No 3 WFBS OTHERS 2x4 SP No.3

xcept end verticals BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 16-46, 15-47, 14-48, 17-45, 18-44

REACTIONS. All bearings 34-0-0.

(lb) -Max Horz 60=-175(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 12-13=-85/272, 13-14=-95/299, 14-15=-106/330, 15-16=-109/341, 16-17=-109/336,

17-18=-106/325, 18-19=-95/293, 19-20=-85/266

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 17-0-0, Corner(3) 17-0-0 to 20-4-13, Exterior(2) 20-4-13 to 34-10-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

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

6) 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.

7) All plates are 2x4 MT20 unless otherwise indicated. 8) Gable requires continuous bottom chord bearing.

9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.



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