

Trenco 818 Soundside Rd Edenton, NC 27932

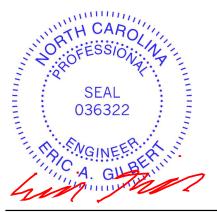
Re: 24010074 BCTH-48

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: I62903547 thru I62903558

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

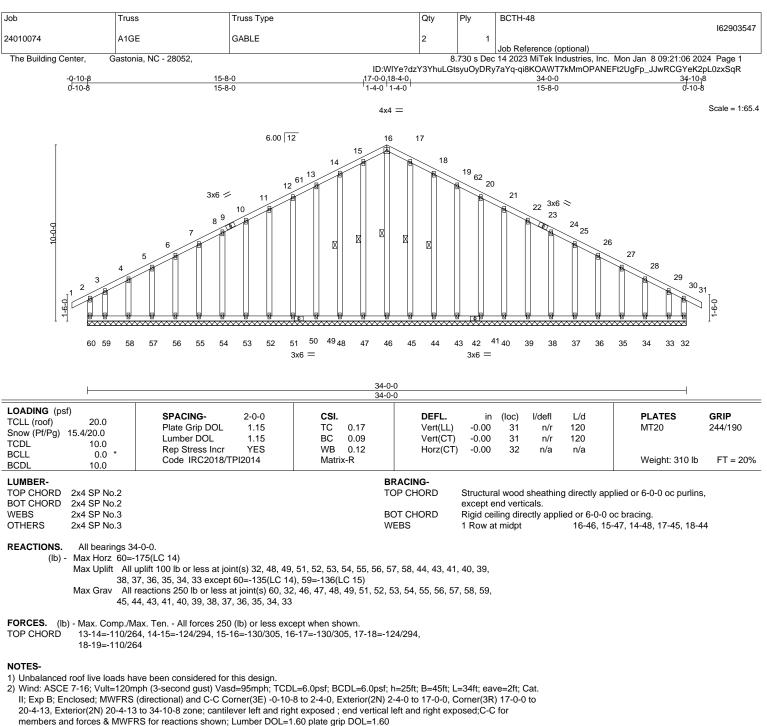
North Carolina COA: C-0844



January 9,2024

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.

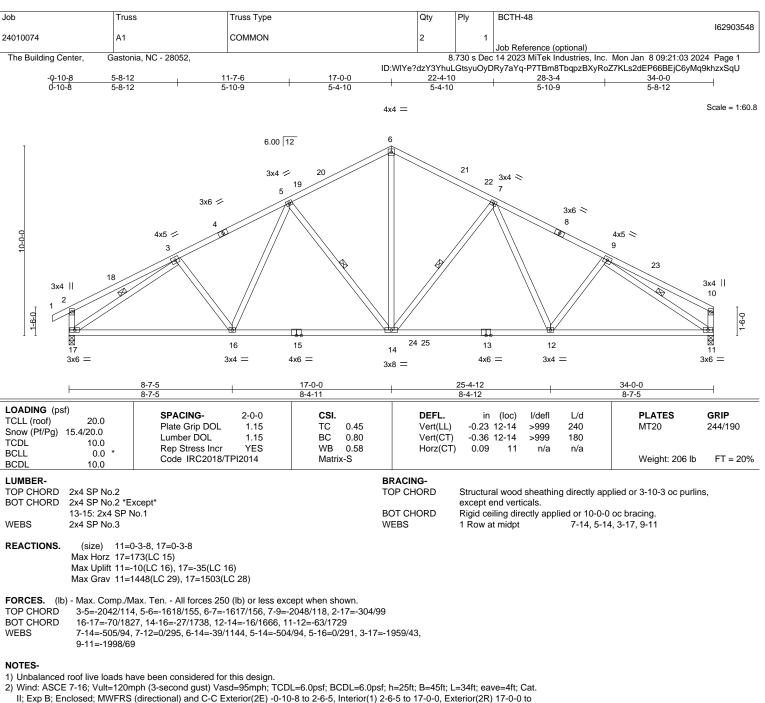


- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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
- 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) Gable studs spaced at 1-4-0 oc.
- 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 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.
- 12) 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.
- 13) 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.

SEAL 036322 January 9,2024



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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.

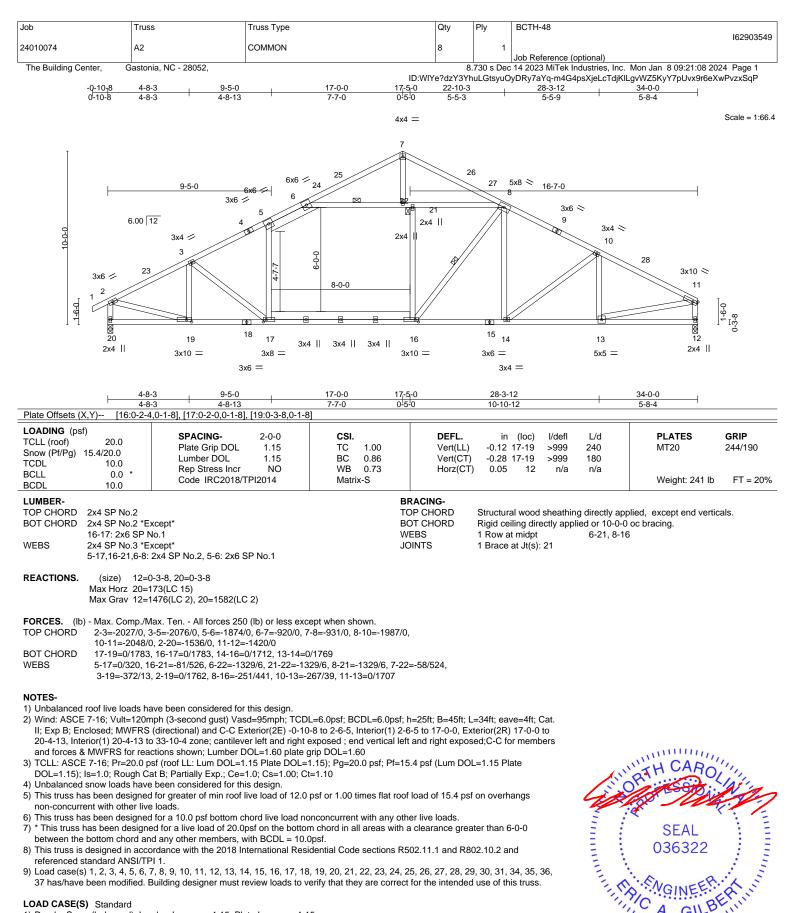
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17.
 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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LOAD CASE(S) Standard

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

Continued on page 2

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818 Soundside Road

Edenton, NC 27932

GI

munin January 9,2024

Job	Truss	Truss Type		Qty	Ply	BCTH-48	
24010074	A2	COMMON		8	1		162903549
The Building Center,	Gastonia, NC - 28052,			8	.730 s Dec	Job Reference (optional) 14 2023 MiTek Industries, Inc. M	on Jan 8 09:21:08 2024 Page 2
<u> </u>	, ,		ID:WIY			yDRy7aYq-m4G4psXjeLcTdjKlLgv	
LOAD CASE(S) Stand	dard						
Uniform Loads (plf) Vert: 1-2=-5	51. 2-5=-51. 5-7=-61. 7-8=-61	, 8-11=-51, 17-20=-20, 16-17=-40, 12	2-16=-20				
2) Dead + Roof Live (b	alanced): Lumber Increase=1		2 10 20				
Uniform Loads (plf) Vert: 1-2=-6	60, 2-5=-60, 5-7=-70, 7-8=-70	, 8-11=-60, 17-20=-20, 16-17=-40, 1	2-16=-20				
 Dead + 0.75 Roof Li Uniform Loads (plf) 	ve (balanced) + 0.75 Uninhat	. Attic Storage: Lumber Increase=1.	15, Plate Increa	ase=1.15			
Vert: 1-2=-5		8-11=-50, 17-20=-20, 16-17=-40, 1					
 Dead + 0.75 Snow (Uniform Loads (plf) 	balanced) + 0.75 Uninhab. At	tic Storage: Lumber Increase=1.15,	Plate Increase=	1.15			
Vert: 1-2=-4		8-11=-43, 17-20=-20, 16-17=-40, 1					
5) Dead + 0.75 Show (Uniform Loads (plf)	Unbal. Left) + 0.75 Uninhab.	Attic Storage: Lumber Increase=1.15	o, Plate Increase	9=1.15			
		75, 7-8=-37, 8-11=-27, 17-20=-20, 1 . Attic Storage: Lumber Increase=1.1			2-14=-20		
Uniform Loads (plf)	onbal. Right) + 0.75 Oninnab	Auto Storage. Lumber increase=1.	io, riale increa	50=1.15			
		5, 8-27=-53, 8-11=-43, 17-20=-20, 1 ber Increase=1.25, Plate Increase=1		6=-50, 12	2-14=-20		
Uniform Loads (plf)							
		, 8-11=-20, 17-20=-40, 16-17=-60, 1 ber Increase=1.60, Plate Increase=					
Uniform Loads (plf)	· · · ·			0.40 40			
		'-26=13, 8-26=3, 8-11=13, 17-20=-1 =35, 11-26=25, 2-20=21, 11-12=32	2, 10-17=-32, 1	2-10=-12	2		
9) Dead + 0.6 C-C Win Uniform Loads (plf)	d (Pos. Internal) Case 2: Lum	ber Increase=1.60, Plate Increase=	1.60				
Vert: 1-2=8,		8=3, 8-28=13, 11-28=18, 17-20=-12		-16=-12			
		=25, 11-28=30, 2-20=-32, 11-12=-21 mber Increase=1.60, Plate Increase					
Uniform Loads (plf)							
	-12, 2-5=-32, 5-7=-42, 7-8=-4 -8, 2-7=12, 7-11=-12, 2-20=3	2, 8-11=-32, 17-20=-20, 16-17=-40, 0, 11-12=23	12-16=-20				
11) Dead + 0.6 C-C Wi Uniform Loads (plf)		mber Increase=1.60, Plate Increase	=1.60				
u ,		2, 8-11=-32, 17-20=-20, 16-17=-40,	12-16=-20				
	⊧8, 2-7=12, 7-11=-12, 2-20=-2 S Wind (Pos_Internal) Left: L	3, 11-12=-30 umber Increase=1.60, Plate Increase	e=1 60				
Uniform Loads (plf))						
	12, 2-5=-0, 5-7=-10, 7-8=-5, 8 24, 2-7=-12, 7-11=17, 2-20=	-11=5, 17-20=-12, 16-17=-32, 12-16 13, 11-12=15	5=-12				
13) Dead + 0.6 MWFR Uniform Loads (plf)		Lumber Increase=1.60, Plate Increa	se=1.60				
u /		1=-0, 17-20=-12, 16-17=-32, 12-16=	-12				
	-13, 2-7=-17, 7-11=12, 2-20= S Wind (Neg. Internal) Left: I	-15, 11-12=-13 umber Increase=1.60, Plate Increas	e=1 60				
Uniform Loads (plf)							
	-23, 2-5=-27, 5-7=-37, 7-8=-2 -3, 2-7=7, 7-11=8, 2-20=22, 1	2, 8-11=-12, 17-20=-20, 16-17=-40, 1-12=6	12-16=-20				
15) Dead + 0.6 MWFR	S Wind (Neg. Internal) Right:	Lumber Increase=1.60, Plate Increa	se=1.60				
Uniform Loads (plf) Vert: 1-2=		, 8-11=-27, 17-20=-20, 16-17=-40, 1	2-16=-20				
	-13, 2-7=-8, 7-11=-7, 2-20=-6 S Wind (Pos. Internal) 1st Pa	6, 11-12=-22 rallel: Lumber Increase=1.60, Plate I	ncrease-1.60				
Uniform Loads (plf)							
	25, 2-5=13, 5-7=3, 7-8=3, 8-1 -37, 2-7=-25, 7-11=25, 2-20=	1=13, 17-20=-12, 16-17=-32, 12-16= -19. 11-12=19	=-12				
17) Dead + 0.6 MWFR	S Wind (Pos. Internal) 2nd Pa	arallel: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf) Vert: 1-2=		1=4, 17-20=-12, 16-17=-32, 12-16=-	-12				
	-28, 2-7=-16, 7-11=16, 2-20= S Wind (Neg. Internal) 1st Pa	-19, 11-12=19 rallel: Lumber Increase=1.60, Plate	Increase-1 60				
Uniform Loads (plf)							
	-16, 2-5=-21, 5-7=-31, 7-8=-3 4, 2-7=1, 7-11=-1, 2-20=-10	1, 8-11=-21, 17-20=-20, 16-17=-40, 11-12=10	12-16=-20				
19) Dead + 0.6 MWFR	S Wind (Neg. Internal) 2nd Pa	arallel: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf) Vert: 1-2=		1, 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					
20) Dead + Snow on C Uniform Loads (plf)	verhangs: Lumber Increase=)	1.10, FIALE INCIEASE=1.10					
	-51, 2-5=-20, 5-7=-30, 7-8=-3 al. Left): Lumber Increase=1.	0, 8-11=-20, 17-20=-20, 16-17=-40, 15 Plate Increase=1 15	12-16=-20				
Uniform Loads (plf))		10.17				
	-51, 2-5=-51, 5-24=-61, 7-24= al. Right): Lumber Increase=	-90, 7-8=-39, 8-11=-29, 17-20=-20, 1.15, Plate Increase=1.15	16-17=-40, 12-	16=-20			
	an rughty. Lumber moredse=	1.10, 1 1010 11010030-1.10					

Continued on page 3

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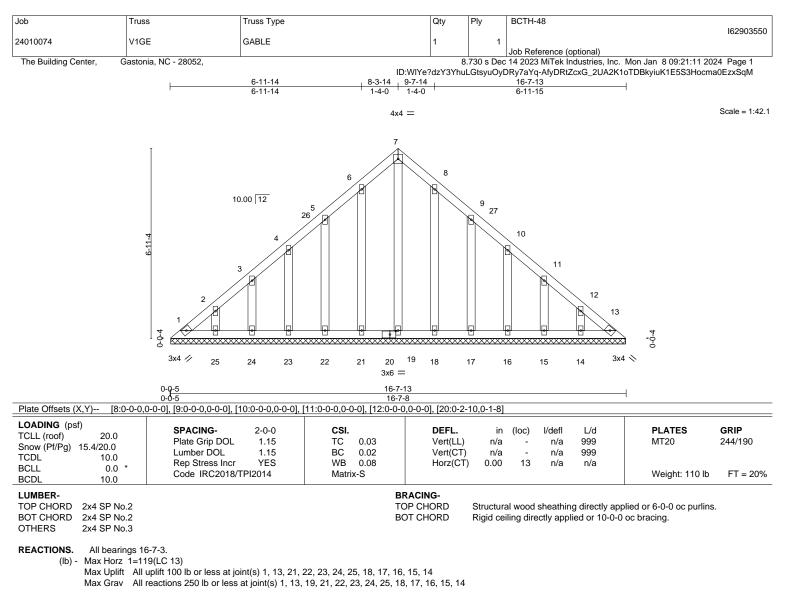


Job	Truss	Truss Type	Qty	Ply	BCTH-48	100000-
24010074	A2	COMMON	8	1		I62903549
			5		Job Reference (optional)	
The Building Center,	Gastonia, NC - 2805	2,	ID:WIYe?dzY		c 14 2023 MiTek Industries, Inc. Mon Jan 8 09:21:08 202 DyDRy7aYq-m4G4psXjeLcTdjKILgvWZ5KyY7pUvx9r6eXw	
LOAD CASE(S) Sta						
Uniform Loads (p		, 7-27=-90, 8-27=-61, 8-11=-51, 17-20=-20	16 17- 40 12 16- 2	0		
		hber Increase=1.25, Plate Increase=1.25	, 10-17=-40, 12-10=-2	0		
Uniform Loads (p	0					
Vert: 1-2	=-20, 2-5=-20, 5-7=-30,	, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40	, 14-16=-60, 12-14=-2	0		
/	()	. Attic Storage + 0.75(0.6 MWFRS Wind (N	leg. Int) Left): Lumber	Increase=1.	60, Plate Increase=1.60	
Uniform Loads (p	,	, 7-8=-47, 8-11=-37, 17-20=-20, 16-17=-40	14 16- 50 12 14- 2	0		
	==45, 2-5==49, 5-7=-59, 2=2, 2-7=6, 7-11=6, 2-2		, 14-10=-50, 12-14=-2	0		
		. Attic Storage + 0.75(0.6 MWFRS Wind (N	leg. Int) Right): Lumbe	r Increase=	1.60, Plate Increase=1.60	
Uniform Loads (p			5,5,5,		.,	
	, , ,	, 7-8=-59, 8-11=-49, 17-20=-20, 16-17=-40	, 14-16=-50, 12-14=-2	0		
	2=-10, 2-7=-6, 7-11=-6,	,				
		Attic Storage + 0.75(0.6 MWFRS Wind (N	leg. Int) 1st Parallel): I	umber Incre	ease=1.60, Plate Increase=1.60	
Uniform Loads (p		, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40	14 16- 50 12 14- 2	0		
	==40, 2-3==44, 5-7=-54, 2=-3, 2-7=1, 7-11=-1, 2-		, 14-10=-50, 12-14=-2	0		
		. Attic Storage + 0.75(0.6 MWFRS Wind (N	leg. Int) 2nd Parallel):	Lumber Incr	ease=1.60. Plate Increase=1.60	
Uniform Loads (p		0 (, , ,			
		, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40	, 14-16=-50, 12-14=-2	0		
	2=-3, 2-7=1, 7-11=-1, 2-					
		hab. Attic Storage + 0.75(0.6 MWFRS Win	d (Neg. Int) Left): Lum	ber Increase	e=1.60, Plate Increase=1.60	
Uniform Loads (p	,	, 7-8=-54, 8-11=-44, 17-20=-20, 16-17=-40	14-1650 12-142	0		
	2=2, 2-7=6, 7-11=6, 2-2		, 14 10= 30, 12 14= 2	0		
		hab. Attic Storage + 0.75(0.6 MWFRS Win	d (Neg. Int) Right): Lu	mber Increa	se=1.60, Plate Increase=1.60	
Uniform Loads (p	lf)	0 (
		, 7-8=-66, 8-11=-56, 17-20=-20, 16-17=-40	, 14-16=-50, 12-14=-2	0		
	2=-10, 2-7=-6, 7-11=-6,	,				
30) Dead + 0.75 Roo Uniform Loads (p	()	hab. Attic Storage + 0.75(0.6 MWFRS Win	d (Neg. Int) 1st Paralle	el): Lumber I	ncrease=1.60, Plate Increase=1.60	
		, 7-8=-61, 8-11=-51, 17-20=-20, 16-17=-40	14-16=-50 12-14=-2	0		
	2=-3, 2-7=1, 7-11=-1, 2-		, 11 10- 00, 12 11- 2	0		
		hab. Attic Storage + 0.75(0.6 MWFRS Win	d (Neg. Int) 2nd Paral	lel): Lumber	Increase=1.60, Plate Increase=1.60	
Uniform Loads (p	,					
		, 7-8=-61, 8-11=-51, 17-20=-20, 16-17=-40,	, 14-16=-50, 12-14=-2	0		
	2=-3, 2-7=1, 7-11=-1, 2-					
Uniform Loads (p	· /	ber Increase=1.15, Plate Increase=1.15				
u u	,	, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40	. 12-16=-20			
	, , ,	nber Increase=1.15, Plate Increase=1.15				
Uniform Loads (p	lf)					
		, 7-8=-70, 8-11=-60, 17-20=-20, 16-17=-40				
,	(,	+ 0.75 Uninhab. Attic Storage: Lumber Inc	rease=1.15, Plate Incl	ease=1.15		
Uniform Loads (p	,	, 7-8=-30, 8-11=-20, 17-20=-20, 16-17=-40,	14-16-50 12-14- 2	0		
		+ 0.75 Uninhab. Attic Storage: Lumber Inc				
Uniform Loads (p	· · /	en e en mas 7 die eterage. Europer me		0000-1110		
		7-860 8-1150 17-2020 16-1740	14 16- 50 12 14- 2	0		

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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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.

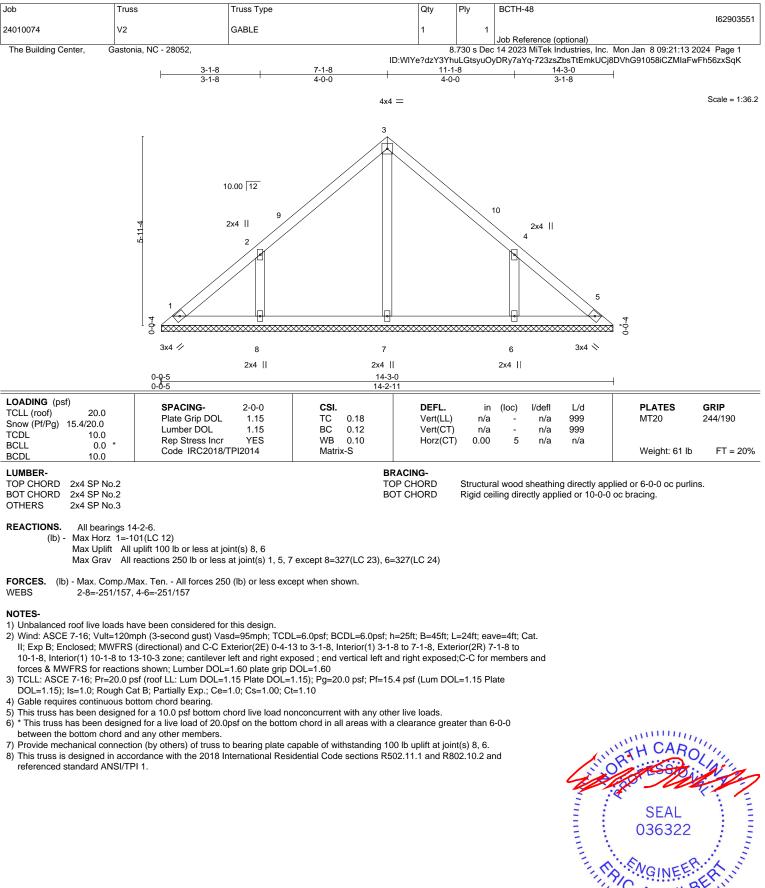
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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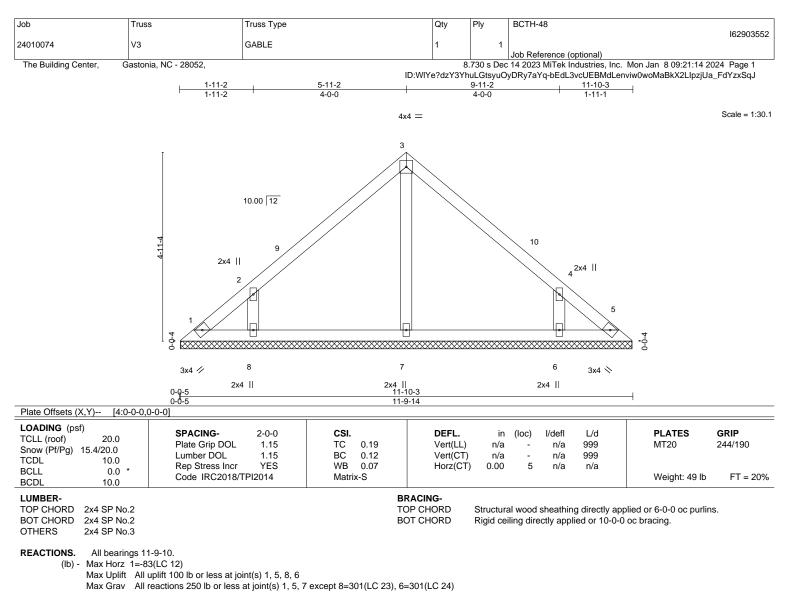


818 Soundside Road





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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.

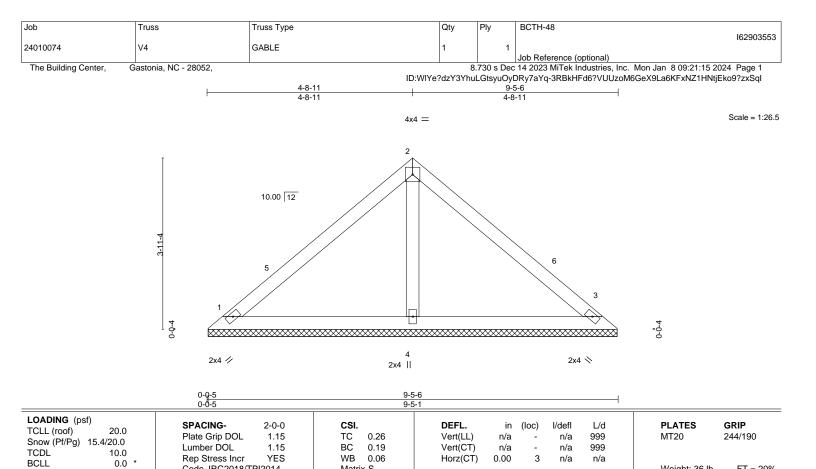
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

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.

SEAL 036322 January 9,2024

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)

A MiTek Affili 818 Soundside Road



LUMBER-

BCDL

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

10.0

BRACING-TOP CHORD BOT CHORD

Matrix-S

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

1=9-4-13, 3=9-4-13, 4=9-4-13 REACTIONS. (size) 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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

Code IRC2018/TPI2014

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.



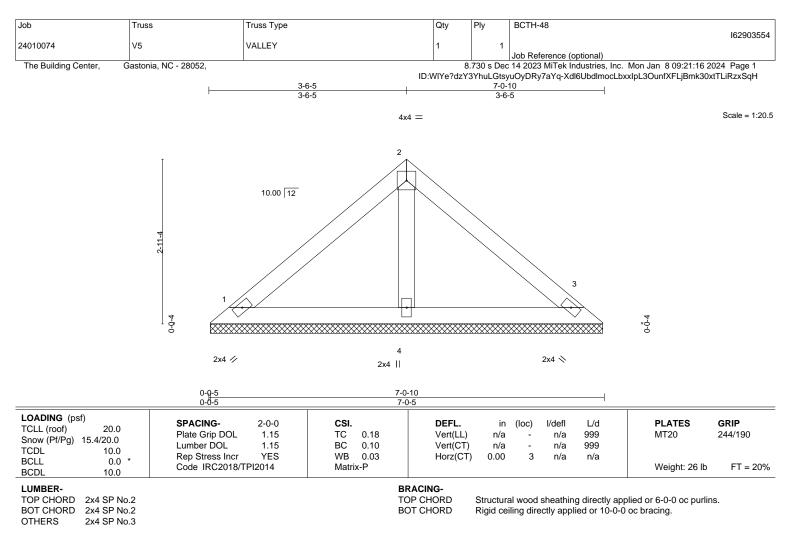
Weight: 36 lb

FT = 20%

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818 Soundside Road



REACTIONS. (size) 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); ss=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.

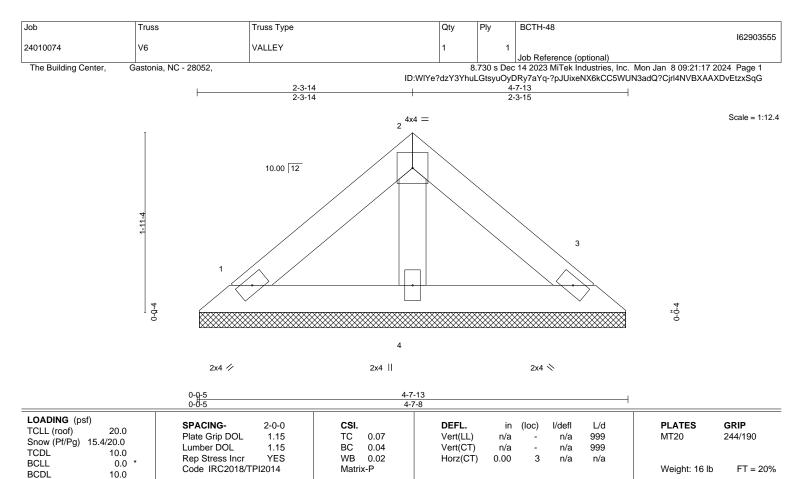
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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818 Soundside Road



BRACING-

TOP CHORD

BOT CHORD

11	IMBER-	

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

OTHERS 2x4 SP No.3

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

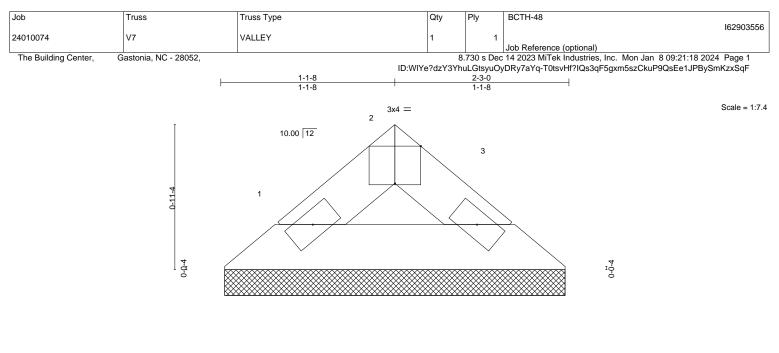
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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2x4 1/

2x4 🚿

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y) [2:0-2-0,	Edge]	<u>2-2-11</u> 2-2-11			<u>2-3</u> -0 0-0-5		
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	CSI. TC 0.01 BC 0.02 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 3	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 6 lb	FT = 20%

LUMBER-

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

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



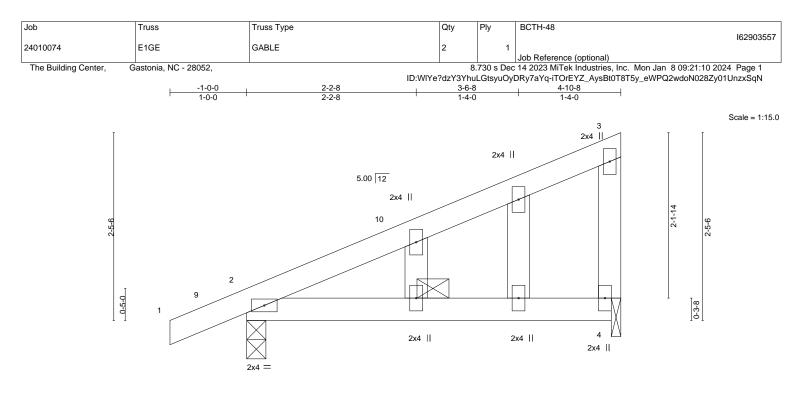
Structural wood sheathing directly applied or 2-3-0 oc purlins.

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

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818 Soundside Road



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.49 BC 0.29 WB 0.00	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	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		0.00				Weight: 23 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 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. (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) 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.

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- 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.

SEAL 036322 January 9,2024

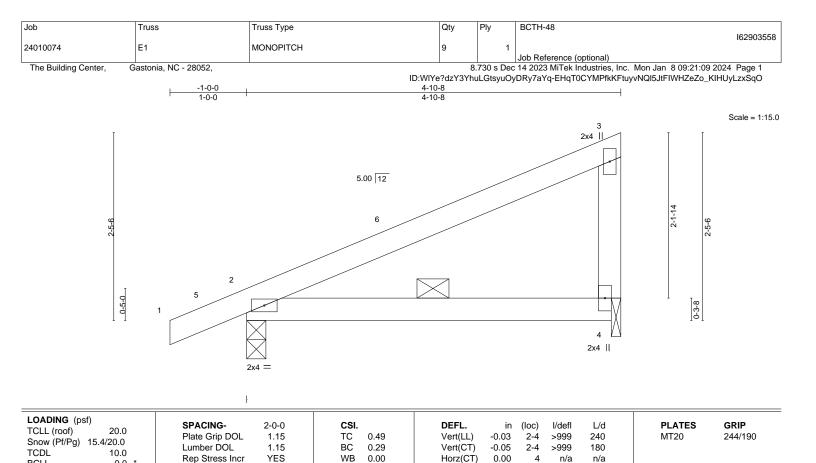
Structural wood sheathing directly applied or 4-10-8 oc purlins,

except end verticals.

3-0-0 oc bracing.



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BRACING-

TOP CHORD

BOT CHORD

Matrix-P

WEBS

BCLL

BCDL

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS. (size) 2=0-3-0, 4=0-1-8

0.0

10.0

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

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.

Code IRC2018/TPI2014

NOTES-

- 1) 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.
- 7) 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.
- 10) 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.



Weight: 19 lb

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

except end verticals.

3-0-0 oc bracing.

FT = 20%

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Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16)

