

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21031298 WAG-18

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: I45482357 thru I45482396

My license renewal date for the state of North Carolina is December 31, 2021.

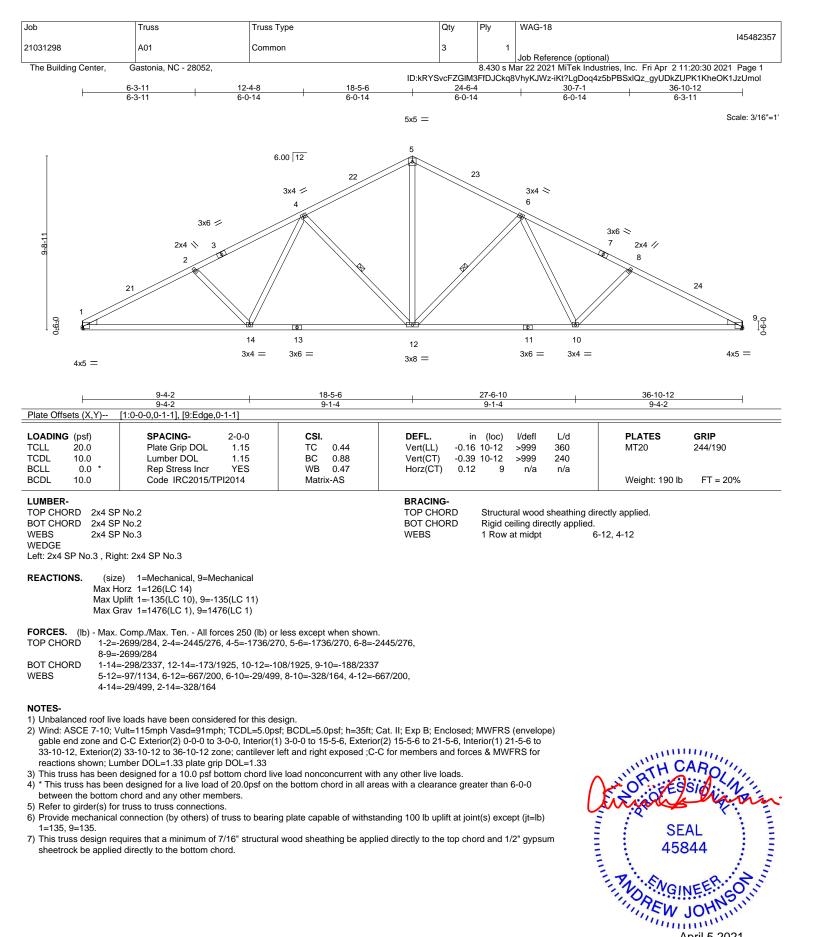
North Carolina COA: C-0844



Johnson, Andrew

April 5,2021

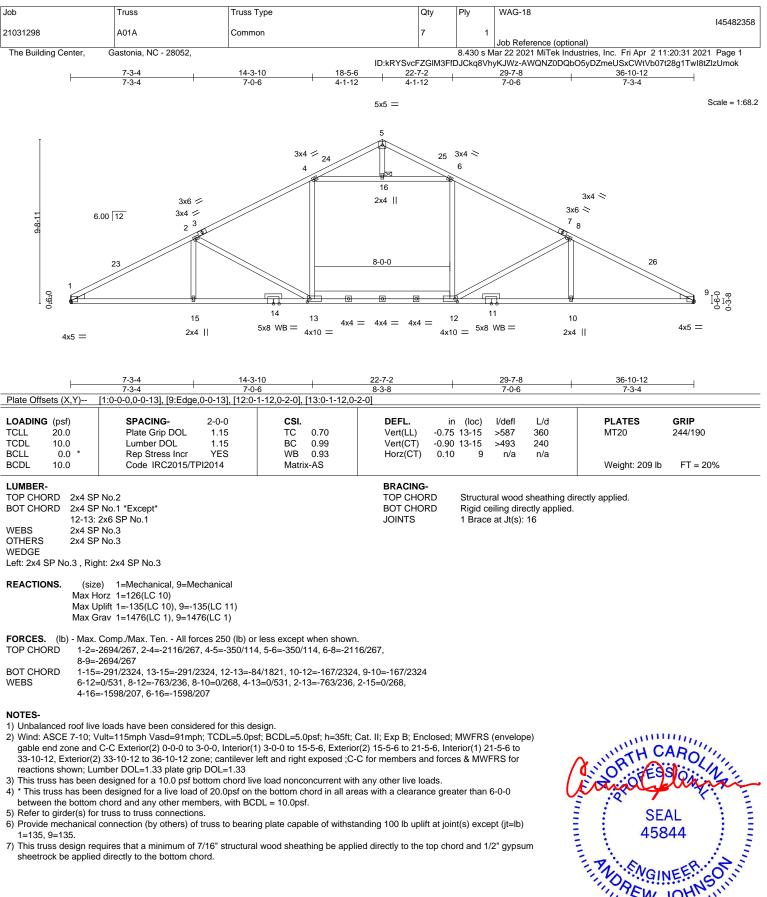
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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. 5/19/2020 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

# April 5,2021

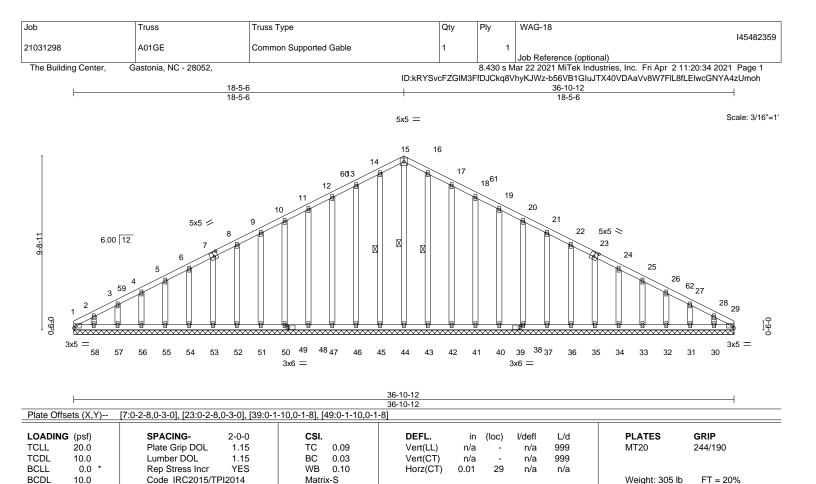






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BRACING-

WEBS

TOP CHORD BOT CHORD

т	ш	M	R	F	R	-

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

D 2x4 SP No.2 2x4 SP No.3

**REACTIONS.** All bearings 36-10-12.

(lb) - Max Horz 1=129(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 1, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30

Max Grav All reactions 250 lb or less at joint(s) 1, 29, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30

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

TOP CHORD 14-15=-87/265, 15-16=-87/265

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 15-5-6, Corner(3) 15-5-6 to 21-5-6, Exterior(2) 21-5-6 to 33-10-12, Corner(3) 33-10-12 to 36-10-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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) All plates are 2x4 MT20 unless otherwise indicated.

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 with a clearance greater than 6-0-0 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) 1, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30.

10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 29.



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

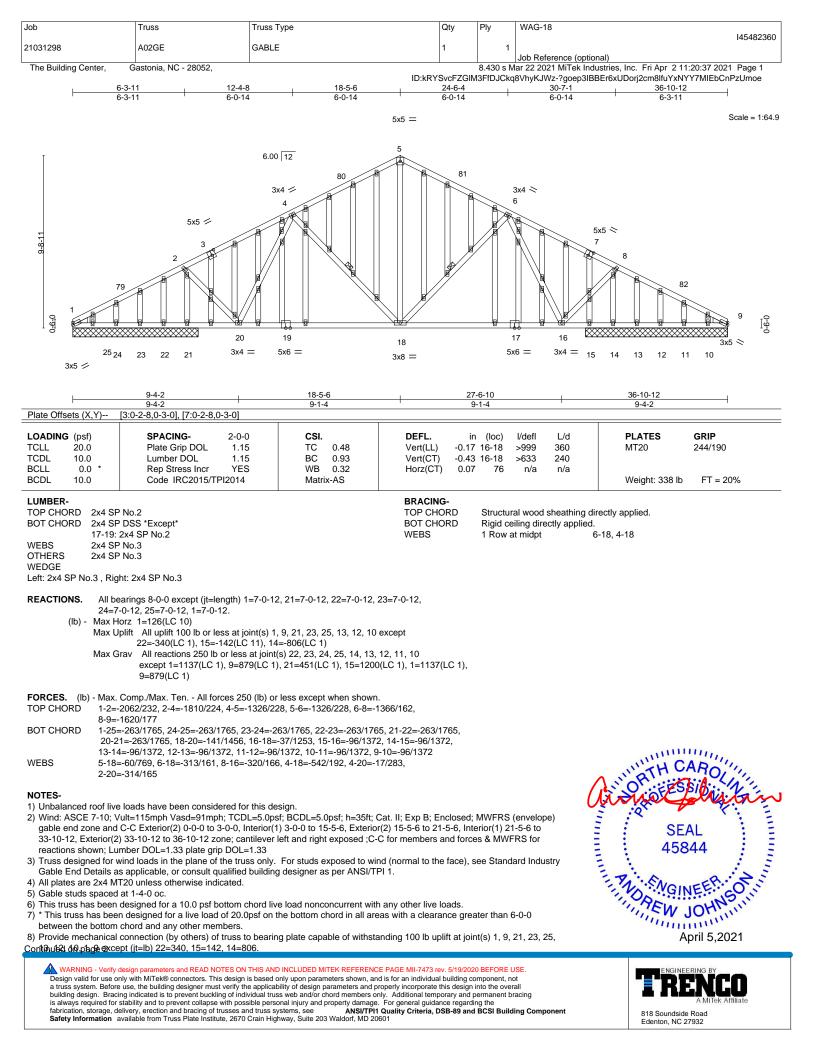
15-44, 14-45, 16-43

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

1 Row at midpt

ENGINEERING BY A MITEK Affiliate 818 Soundside Road Edenton, NC 27932

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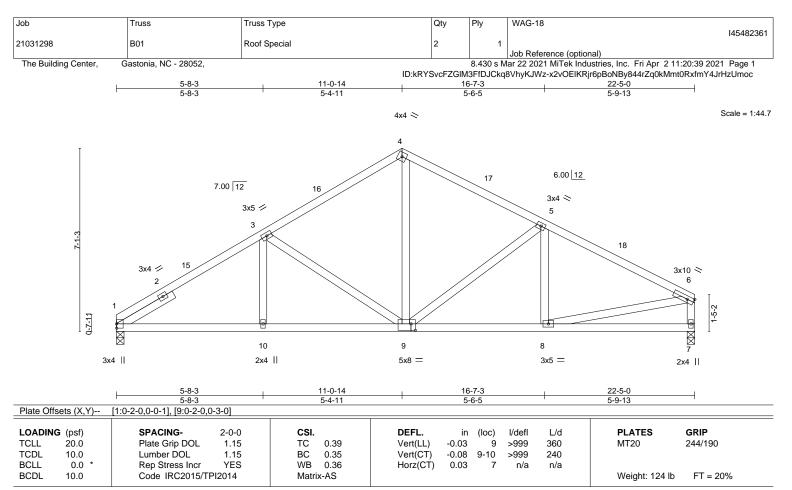


Job	Truss	Truss Type	Qty	Ply	WAG-18	
					145482360	
21031298	A02GE	GABLE	1	1		
					Job Reference (optional)	
The Building Center,	Gastonia, NC - 28052,			8.430 s M	ar 22 2021 MiTek Industries, Inc. Fri Apr 2 11:20:37 2021 Page 2	
		ID:kRYSvcFZGIM3FfDJCkq8VhyKJWz-?goep3IBBEr6xUDorj2cm8lfuYxNYY7MIEbCnPzUmoe				

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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#### LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 + 2-6-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-131(LC 8) Max Uplift 1=-76(LC 10), 7=-78(LC 11) Max Grav 1=891(LC 1), 7=891(LC 1)

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

- TOP CHORD 1-3=-1259/160, 3-4=-950/172, 4-5=-928/167, 5-6=-1174/147, 6-7=-831/130
- BOT CHORD 1-10=-145/1080, 9-10=-145/1080, 8-9=-77/987
- WEBS 3-9=-421/142, 4-9=-43/505, 5-9=-328/121, 6-8=-52/874

### NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-14, Exterior(2) 8-0-14 to 14-0-14, Interior(1) 14-0-14 to 19-3-4, Exterior(2) 19-3-4 to 22-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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

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

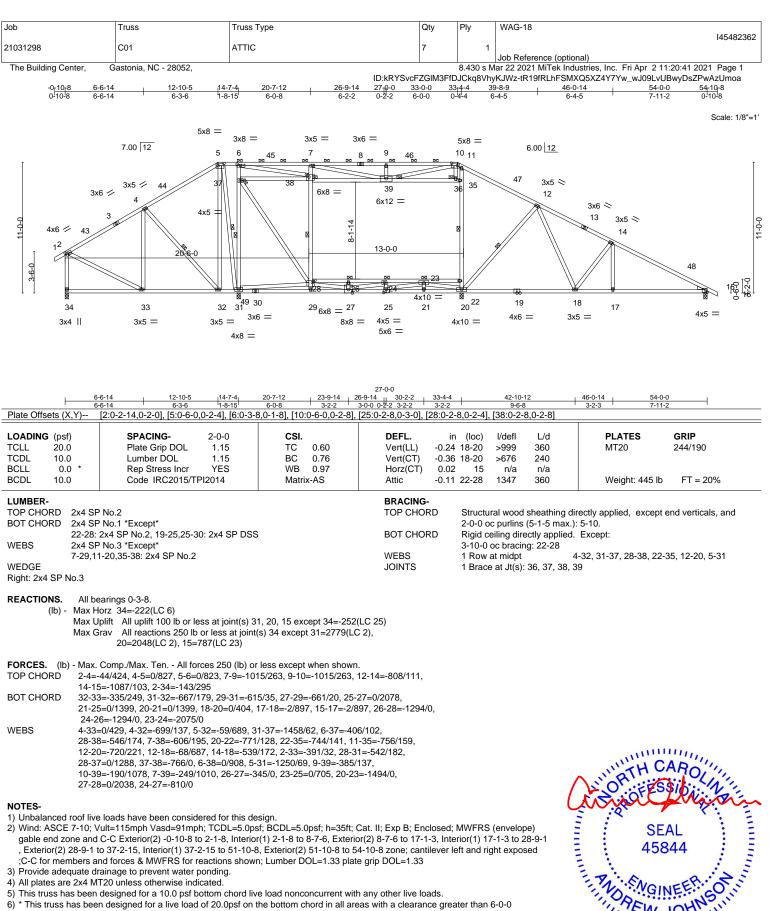
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

\* 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 6) between the bottom chord and any other members, with BCDL = 10.0psf.

7) Ceiling dead load (5.0 psf) on member(s). 38-39, 36-39, 35-36, 37-38

8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 26-28, 24-26, 23-24, 22-23 Continued on page 2

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minim JOH

April 5,2021

Job	Truss	Truss Type	Qty	Ply	WAG-18
					145482362
21031298	C01	ATTIC	7	1	
					Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			8.430 s N	lar 22 2021 MiTek Industries, Inc. Fri Apr 2 11:20:41 2021 Page 2
			ID:kRYSvcFZGIM3F1	DJCkq8Vhy	/KJWz-tR19fRLhFSMXQ5XZ4Y7Yw_wJ09LvUBwyDsZPwAzUmoa

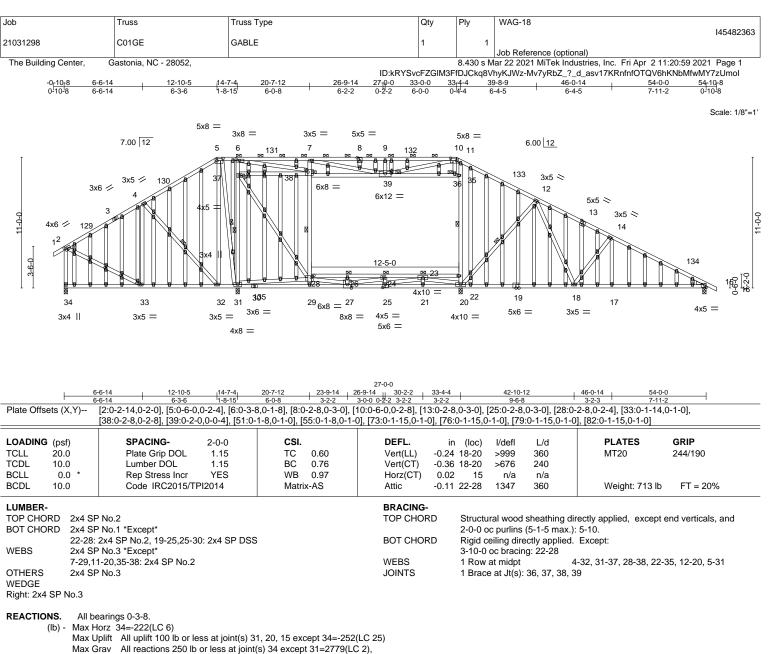
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 20, 15 except (jt=lb) 34=252.
 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

12) Attic room checked for L/360 deflection.

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- 20=2048(LC 2), 15=787(LC 23)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-4=-44/424, 4-5=0/827, 5-6=0/823, 7-9=-1015/263, 9-10=-1015/263, 12-14=-808/111, 14-15=-1087/103, 2-34=-143/295
- BOT CHORD 32-33=-335/249, 31-32=-667/179, 29-31=-615/35, 27-29=-661/20, 25-27=0/2078, 21-25=0/1399, 20-21=0/1399, 18-20=0/404, 17-18=-2/897, 15-17=-2/897, 26-28=-1294/0, 24-26=-1294/0, 23-24=-2075/0 WEBS 4-33=0/429, 4-32=-699/137, 5-32=-59/689, 31-37=-1458/62, 6-37=-406/102, 28-38=-546/174, 7-38=-606/195, 20-22=-771/128, 22-35=-744/141, 11-35=-756/159, 12-20=-720/221, 12-18=-68/687, 14-18=-539/172, 2-33=-391/32, 28-31=-542/182, 28-37=0/1288, 37-38=-766/0, 6-38=0/908, 5-31=-1250/69, 9-39=-385/137, 10-20=-100/1078, 7-39=-240/4010, 26-27=-245/0, 29-26=-07205, 20-22=-1404/0
  - 10-39=-190/1078, 7-39=-249/1010, 26-27=-345/0, 23-25=0/705, 20-23=-1494/0, 27-28=0/2038, 24-27=-810/0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-7-6, Exterior(2) 8-7-6 to 17-1-3, Interior(1) 17-1-3 to 28-9-1, Exterior(2) 28-9-1 to 37-2-15, Interior(1) 37-2-15 to 51-10-8, Exterior(2) 51-10-8 to 54-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.

Continisatuss page gen designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	WAG-18
					145482363
21031298	C01GE	GABLE	1	1	
					Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			8.430 s N	ar 22 2021 MiTek Industries, Inc. Fri Apr 2 11:20:59 2021 Page 2
-		ID:kRYS	vcFZGIM3F	fDJCkq8V	hyKJWz-Mv7yRbZ_?_d_asv17KRnfnfOTQV6hKNbMfwMY7zUmol

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, with BCDL = 10.0psf.

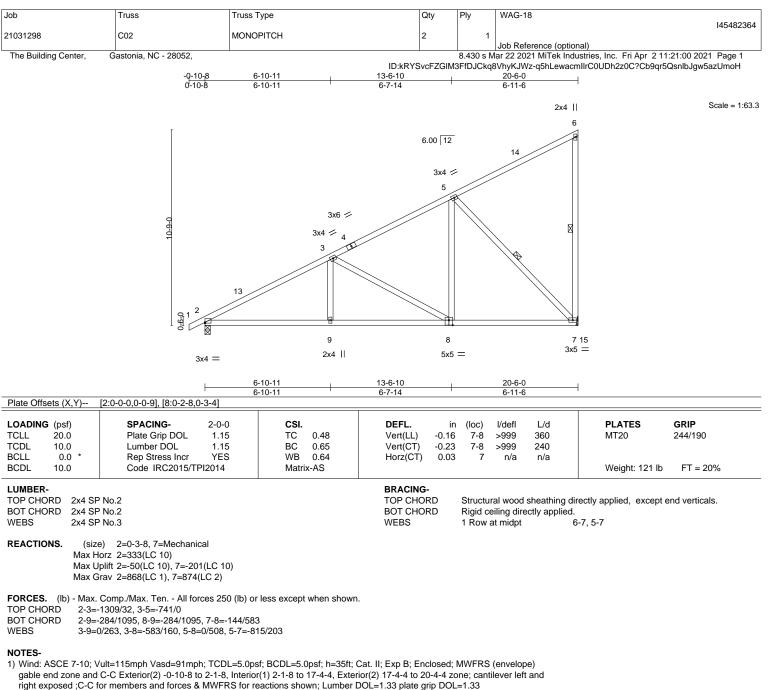
- 9) Ceiling dead load (5.0 psf) on member(s). 38-39, 36-39, 35-36, 37-38
  10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 26-28, 24-26, 23-24, 22-23
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 20, 15 except (jt=lb) 34=252.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

14) Attic room checked for L/360 deflection.

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

\* 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 3) between the bottom chord and any other members, with BCDL = 10.0psf.

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

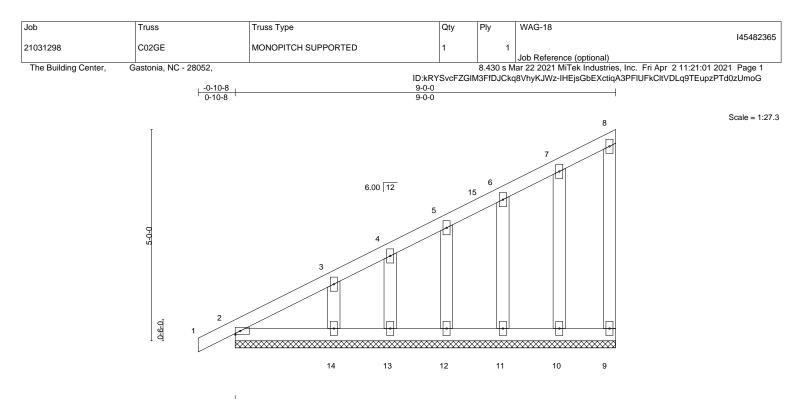
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=201.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) 0.00 1	n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 1	n/r 90	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	( ),		Weight: 55 lb FT = 20%

#### LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

# **REACTIONS.** All bearings 9-0-0.

(lb) - Max Horz 2=153(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 9, 10, 11, 12, 13, 14

Max Grav All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-251/83

#### NOTES-

- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 5-10-4, Corner(3) 5-10-4 to 8-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 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 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) 9, 10, 11, 12, 13, 14.



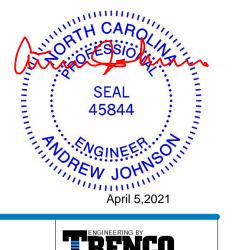
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Job	Truss	Truss Type		Qty	Ply	WAG-	18		115 100000
1031298	C03	MONOPITCH		2	1				145482366
The Building Center,	Gastonia, NC - 28052,				8 430 c M		eference (option)	onal) lustries, Inc. Fri Apr. 21	11:21:02 2021 Page 1
The Building Center,	Gastonia, NC - 20052,		ID:kRYSvcF		fDJCkq8V			ZRKecoT?UHQHz_ddl	
		-0-10-8 5-6-8 0-10-8 5-6-8		<u>11-1</u> 5-6-					
									Scale = 1:55.
					2x	4			Stale = 1.55
		Ī				4			
		7.0	00 12						
				9					
			3x5 =						
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		<b>a</b>							
		6-11-6 3x5 = 8		$\langle \rangle$		$\boxtimes$			
		2							
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					$\backslash/$				
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		7 <sub>2x4</sub>	6		3x4	=5			
		5.0.0	3x4 =		•				
		<u>5-6-8</u> 5-6-8		11-1 5-6-					
OADING (psf)	SPACING-	2-0-0 <b>CSI</b> .	DEFL.	ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		1.15 TC 0.33	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL 10.0 BCLL 0.0 *		1.15 BC 0.28 YES WB 0.14	Vert(CT) Horz(CT)	-0.04 -0.00		>999 n/a	240 n/a		
BCDL 10.0	Code IRC2015/TPI2	014 Matrix-AS						Weight: 86 lb	FT = 20%
LUMBER-			BRACING						
TOP CHORD 2x4 SP BOT CHORD 2x4 SP			TOP CHO BOT CHO				l sheathing d ectly applied	irectly applied, except	t end verticals.
WEBS 2x4 SP			WEBS			at midpt		4-5, 3-5	
REACTIONS. (size	e) 7=0-3-8, 5=Mechanical								
Max H	orz 7=215(LC 10)								
	plift 5=-185(LC 10) rav 7=496(LC 1), 5=454(LC	17)							
FORCES (Ib) - May	Comp /Max Ten - All force	s 250 (lb) or less except when show	MD						
TOP CHORD 2-3=-	323/0, 2-7=-447/0		vv11.						
VEBS 3-5=-	369/176								
NOTES-									
		CDL=5.0psf; BCDL=5.0psf; h=35f -1-8, Interior(1) 2-1-8 to 7-11-4, Ext							
right exposed ;C-C f	or members and forces & M	WFRS for reactions shown; Lumbe	er DOL=1.33 plate	grip DOL	=1.33				
		om chord live load nonconcurrent w 20.0psf on the bottom chord in all a			ater than	6-0-0			
between the bottom	chord and any other member								
	truss to truss connections.	ss to bearing plate capable of with	standing 100 lb up	lift at ioir	nt(s) exce	nt (it-lh	\ \		

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

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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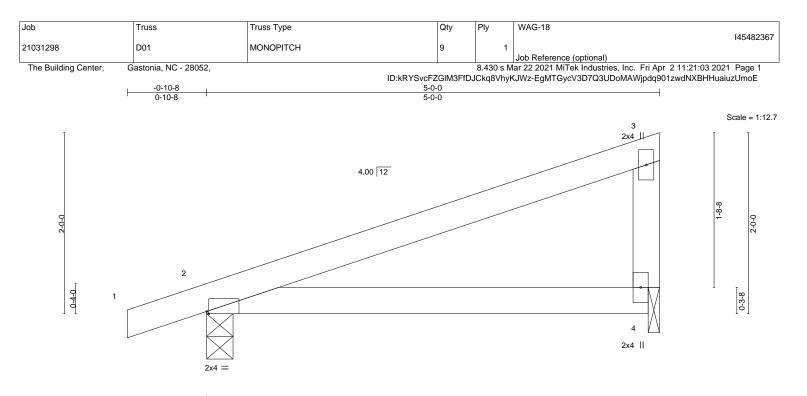


Plate Offsets	(X.Y)	[2:0-0-5.Edge]

LOADING         (psf)         SPACING-         2-0-0           TCLL         20.0         Plate Grip DOL         1.15           TCDL         10.0         Lumber DOL         1.15           BCLL         0.0 *         Rep Stress Incr         YES           BCDL         10.0         Code IRC2015/TPI2014	TC 0.31 Ve BC 0.26 Ve	fert(LL)         -0.02         4-7         >999         3           fert(CT)         -0.05         4-7         >999         2	/d PLATES GRIP 60 MT20 244/190 40 1/a Weight: 19 lb FT = 20%
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BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=63(LC 6)

Max Uplift 2=-50(LC 6), 4=-36(LC 10)

Max Grav 2=251(LC 1), 4=189(LC 1)

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

#### NOTES-

- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

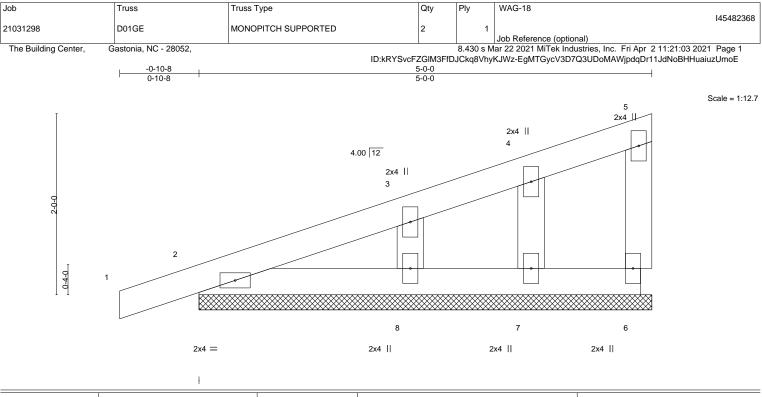


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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L <b>OADING</b> (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.06 BC 0.04	DEFL. Vert(LL) Vert(CT)	in (loc) 0.00 1 0.00 1	l/defl n/r	L/d 120 90	PLATES MT20	<b>GRIP</b> 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.05 Matrix-P	Horz(CT)	0.00	n/r n/a	90 n/a	Weight: 21 lb	FT = 20%

2x4 SP No.2
2x4 SP No.2
2x4 SP No.3
2x4 SP No.3

TOP CHORE

structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-0-0.

Max Horz 2=63(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 1-4-0 oc.

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

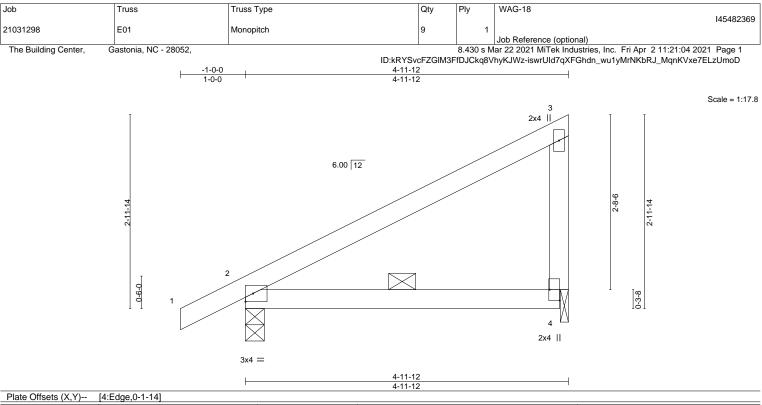
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.



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818 Soundside Road Edenton, NC 27932



LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in	(loc) l/defl L/	0 MT20 244/190
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.02	4-7 >999 36	
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.05	4-7 >999 24	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.00 Matrix-AS	Horz(CT) 0.01	2 n/a n/	a Weight: 21 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-0-0 oc bracing.

#### LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=90(LC 10)

Max Uplift 2=-25(LC 10), 4=-48(LC 10) Max Grav 2=260(LC 1), 4=187(LC 1)

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

#### NOTES-

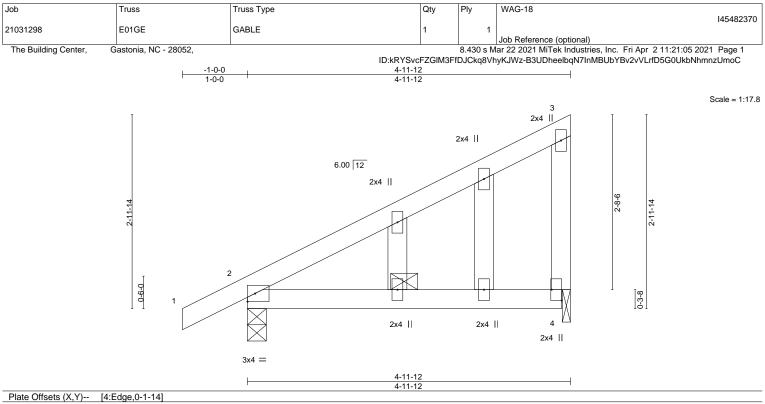
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.02 4-11 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.05 4-11 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-0-0 oc bracing.

#### 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=0-3-8, 4=0-1-8 Max Horz 2=90(LC 10) Max Uplift 2=-25(LC 10), 4=-48(LC 10) Max Grav 2=260(LC 1), 4=187(LC 1)

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

NOTES-

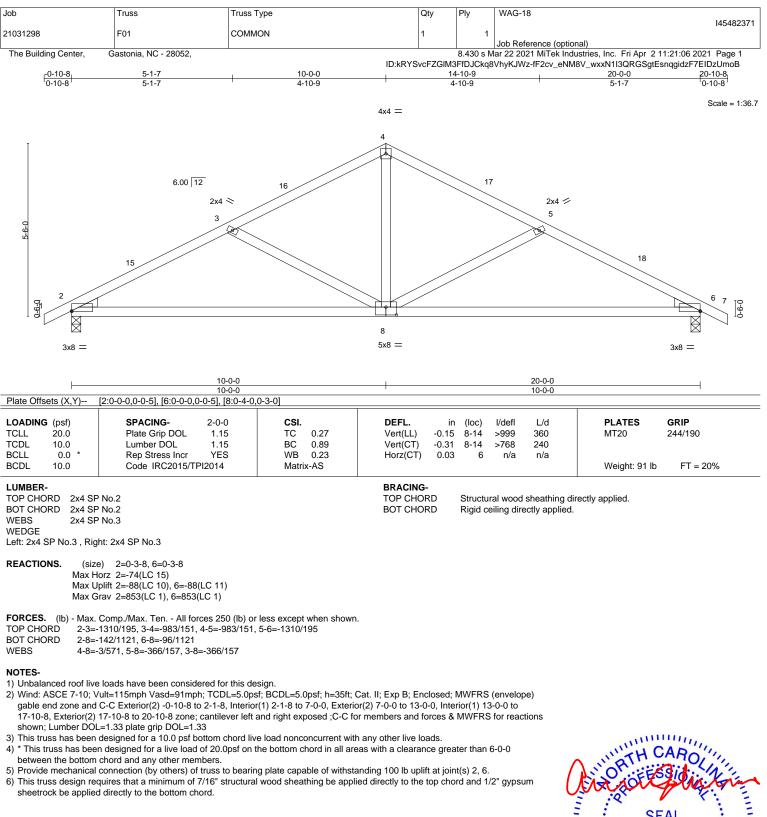
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

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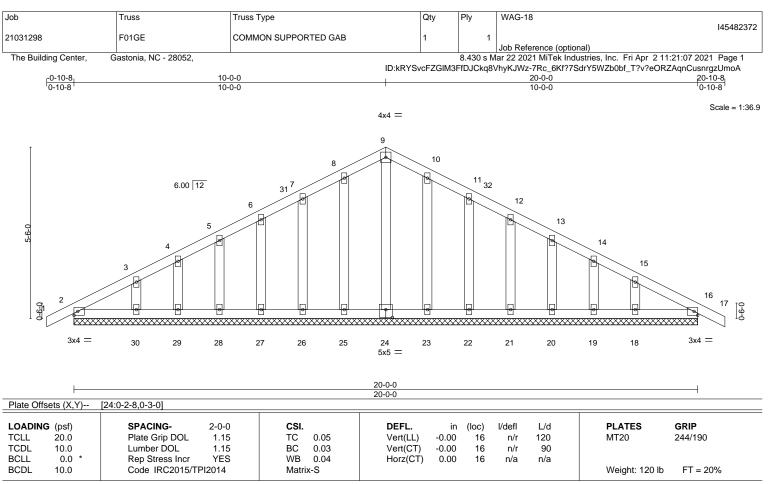






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#### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

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

**REACTIONS.** All bearings 20-0-0.

(lb) - Max Horz 2=74(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 7-0-0, Corner(3) 7-0-0 to 13-0-0, Exterior(2) 13-0-0 to 17-10-8, Corner(3) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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) All plates are 2x4 MT20 unless otherwise indicated.

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.

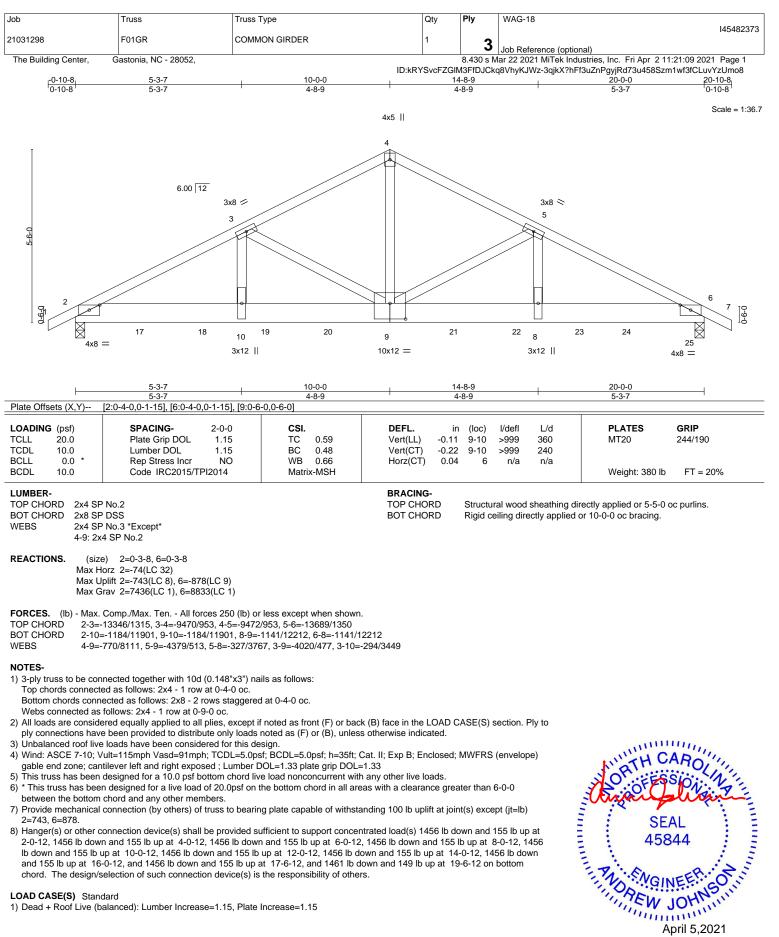
a) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WAG-18
					145482373
21031298	F01GR	COMMON GIRDER	1	2	
				J	Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			8.430 s N	far 22 2021 MiTek Industries, Inc. Fri Apr 2 11:21:09 2021 Page 2
			ID:kRYSvcFZG	IM3FfDJCk	q8VhyKJWz-3qjkX?hFf3uZnPgyjRd73u458Szm1wf3fCLuvYzUmo8

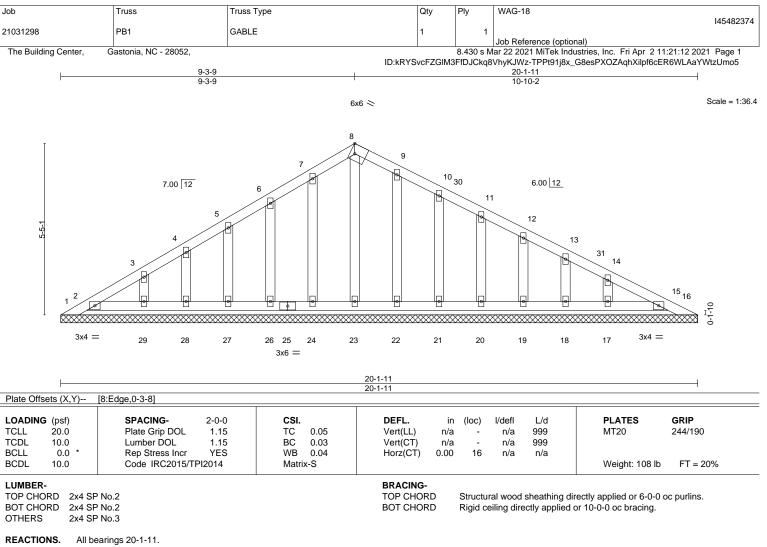
# LOAD CASE(S) Standard

Uniform Loads (pf) Vert: 1-4=-60, 4-7=-60, 11-14=-20 Concentrated Loads (lb)

Vert: 9=-1456(B) 17=-1456(B) 18=-1456(B) 19=-1456(B) 20=-1456(B) 21=-1456(B) 22=-1456(B) 23=-1456(B) 24=-1456(B) 25=-1461(B) 2

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(lb) - Max Horz 1=-114(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 16, 2, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17

Max Grav All reactions 250 lb or less at joint(s) 1, 16, 2, 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17, 15

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-8 to 3-3-8, Exterior(2) 3-3-8 to 6-3-9, Corner(3) 6-3-9 to 12-3-9, Exterior(2) 12-3-9 to 16-9-13, Corner(3) 16-9-13 to 19-9-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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) All plates are 2x4 MT20 unless otherwise indicated.

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

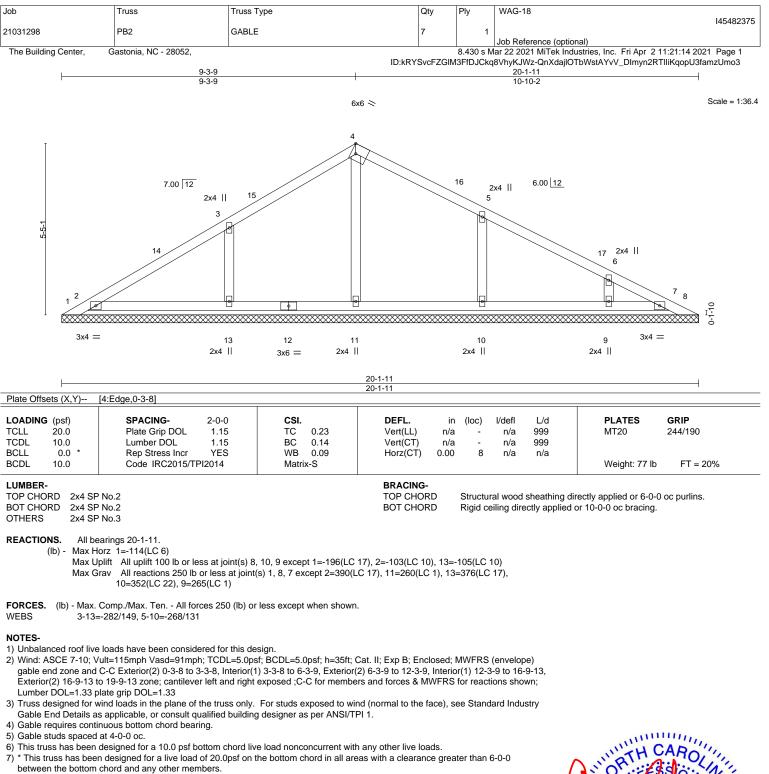
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 16, 2, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18, 17.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





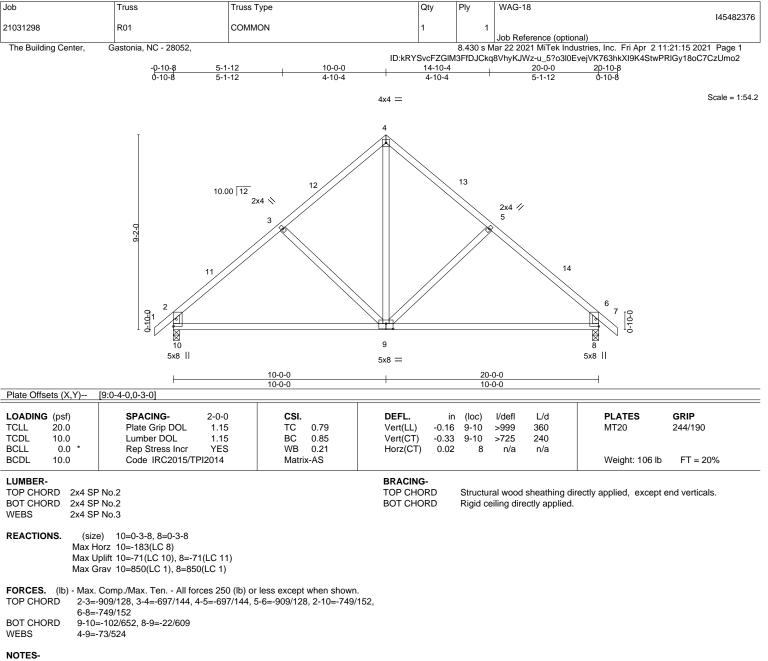
B) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 9 except (jt=lb) 1=196, 2=103, 13=105.

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



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818 Soundside Road Edenton, NC 27932



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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 17-10-8, Exterior(2) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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

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

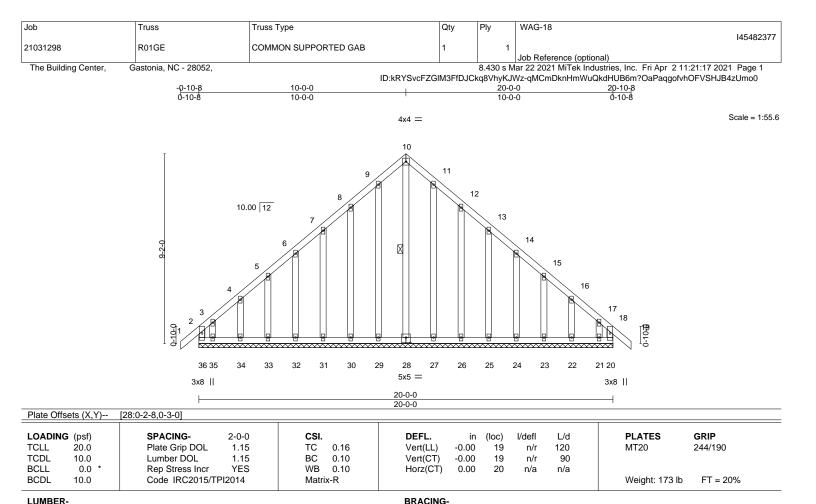
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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TOP CHORD

BOT CHORD

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

WEBS

OTHERS

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

2x4 SP No.3

Max Grav

All bearings 20-0-0. Max Horz 36=-183(LC 8)

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

21 except 36=253(LC 10)

36=-160(LC 8), 35=-206(LC 10), 21=-178(LC 11)

#### NOTES

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 20-0, Exterior(2) 2-0-0 to 7-0-0, Corner(3) 7-0-0 to 13-0-0, Exterior(2) 13-0-0 to 17-10-8, Corner(3) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Max Uplift All uplift 100 lb or less at joint(s) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except

All reactions 250 lb or less at joint(s) 20, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22,

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.

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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

7) Gable studs spaced at 1-4-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (it=lb) 36=160, 35=206, 21=178.



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

10-28

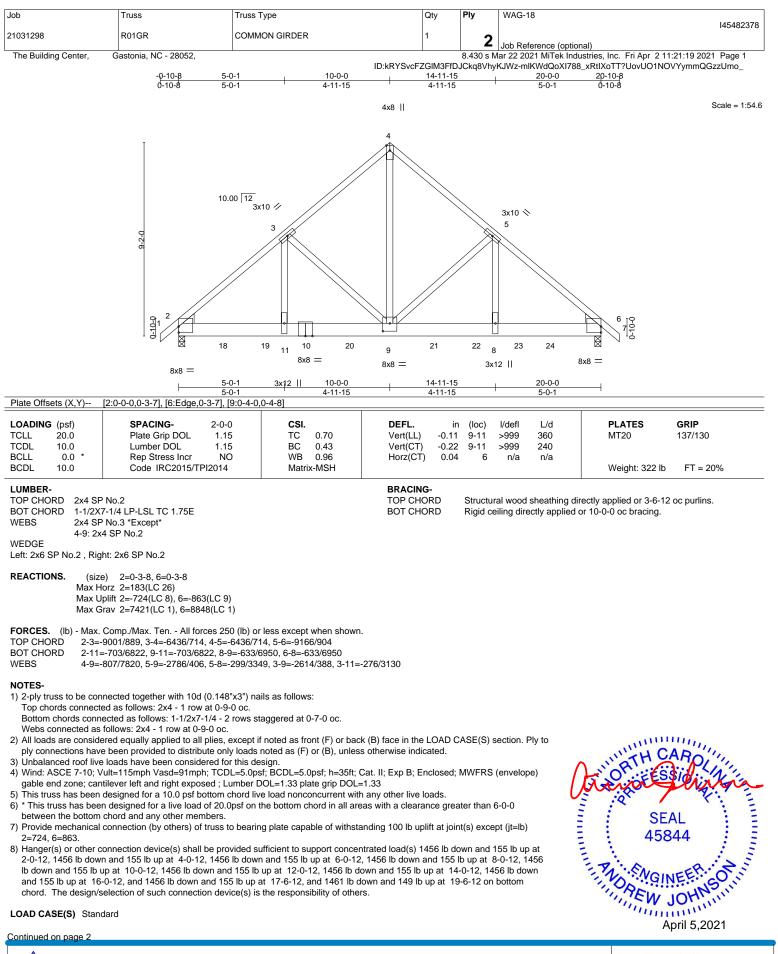
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-18
					145482378
21031298	R01GR	COMMON GIRDER	1	2	
				<b>_</b>	Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			8.430 s N	Aar 22 2021 MiTek Industries, Inc. Fri Apr 2 11:21:19 2021 Page 2
			ID:kRYSvcFZGIM3Ffl	DJCkq8Vhy	KJWz-mIKWdQoXI788_xRtIXoTT?UovUO1NOVYymmQGzzUmo_

LOAD CASE(S) Standard

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

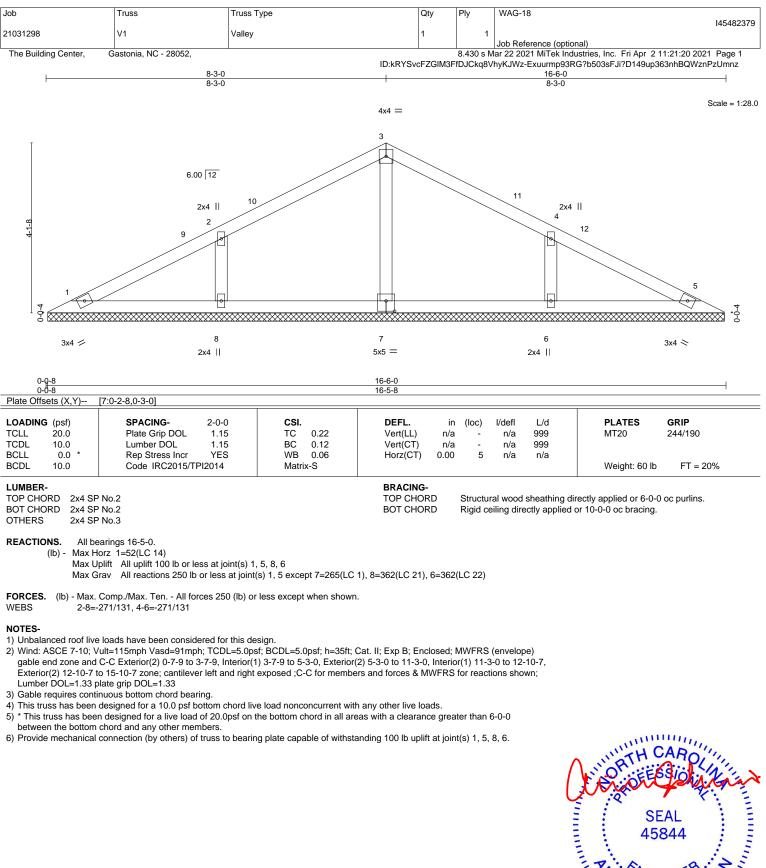
Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 10=-1456(F) 9=-1456(F) 17=-1461(F) 18=-1456(F) 19=-1456(F) 20=-1456(F) 21=-1456(F) 22=-1456(F) 23=-1456(F) 24=-1456(F) 2

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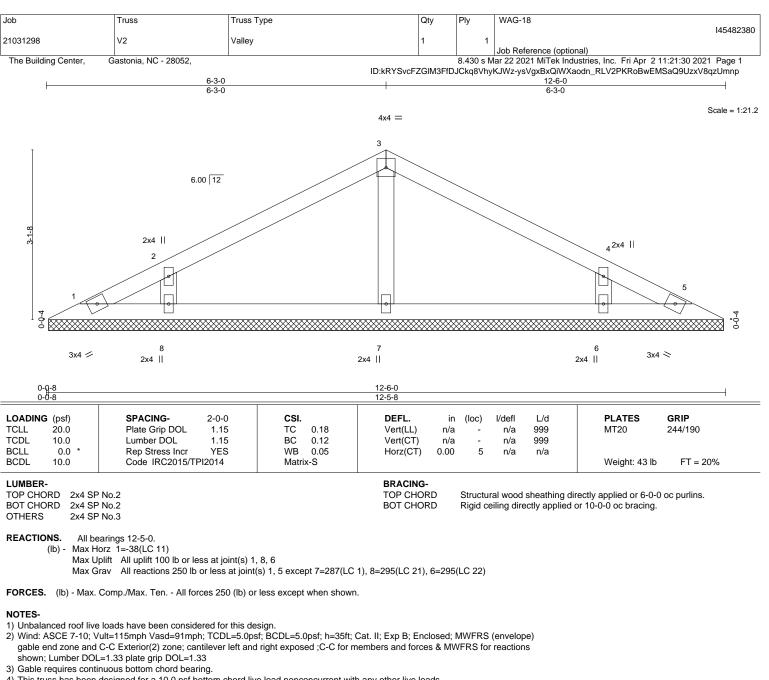






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4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

\* 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 5)

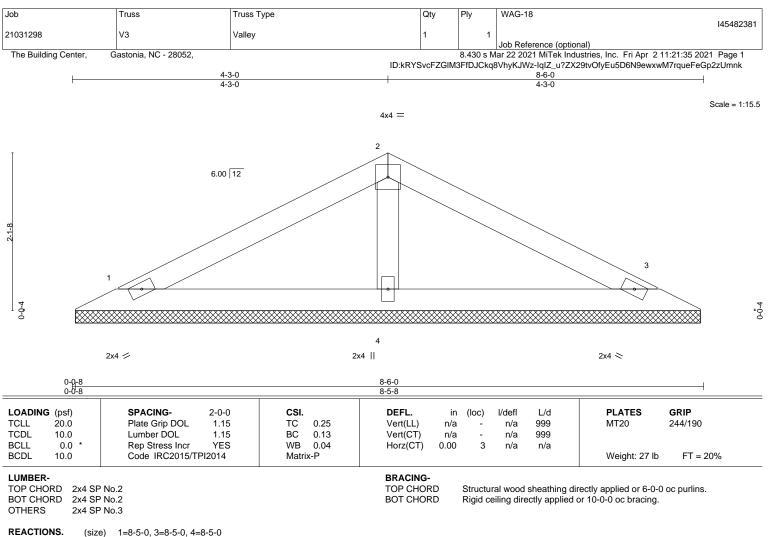
between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



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Max Horz 1=25(LC 10) Max Uplift 1=-27(LC 10), 3=-32(LC 11)

Max Grav 1=147(LC 1), 3=147(LC 1), 4=286(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Gable requires continuous bottom chord bearing.

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

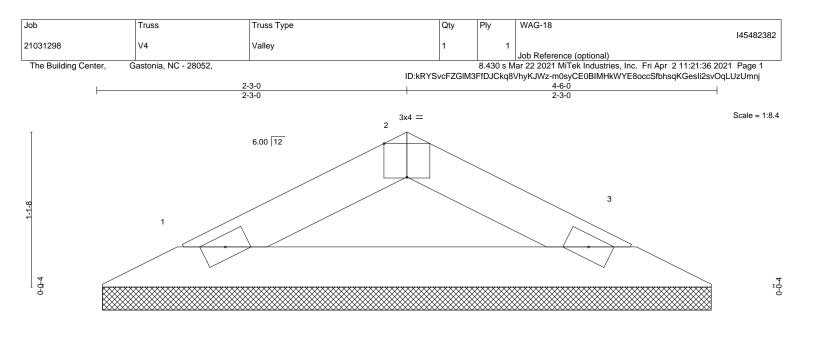
between the bottom chord and any other members.

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



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2x4 💋

2x4 📚

Structural wood sheathing directly applied or 4-6-0 oc purlins.

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

0- <mark>0-8</mark> 0-0-8					<u>4-6-0</u> 4-5-8						
Plate Offsets (X,Y)	[2:0-2-0,Edge]										
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI	2014	Matrix	κ-P						Weight: 12 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

REACTIONS. (size) 1=4-5-0, 3=4-5-0 Max Horz 1=11(LC 10) Max Uplift 1=-12(LC 10), 3=-12(LC 11) Max Grav 1=130(LC 1), 3=130(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Gable requires continuous bottom chord bearing.

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

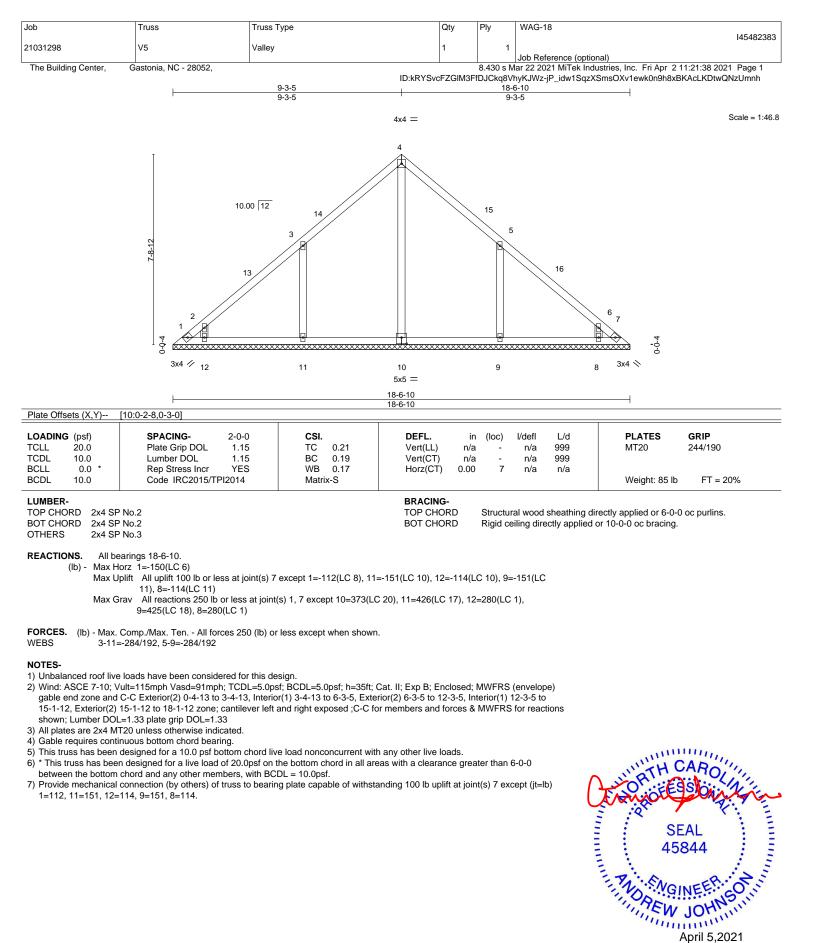
between the bottom chord and any other members.

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



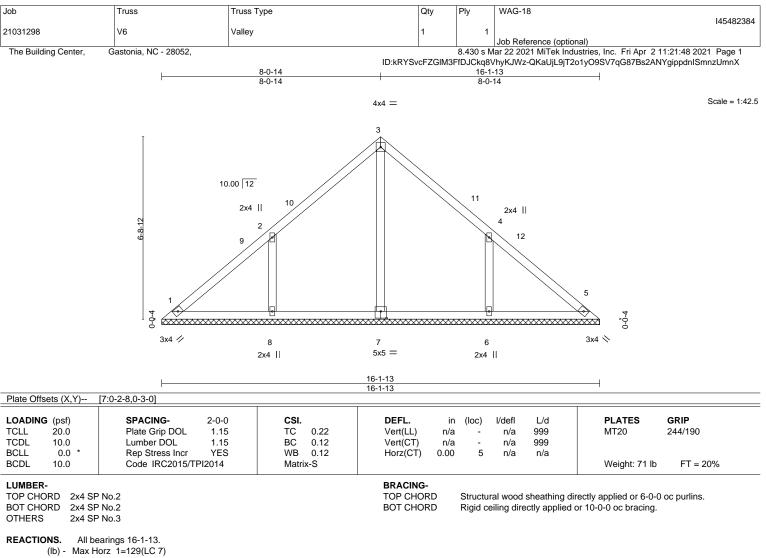
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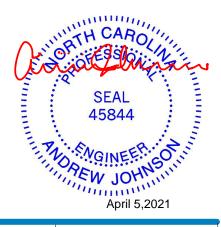
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-157(LC 10), 6=-157(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=383(LC 17), 6=383(LC 18)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- WEBS 2-8=-290/194, 4-6=-290/193

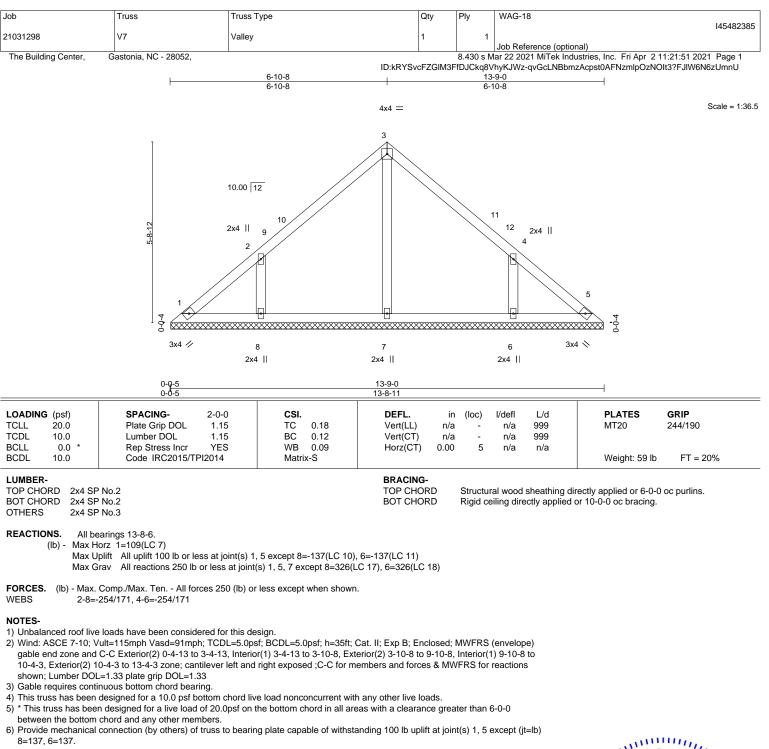
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-0-14, Exterior(2) 5-0-14 to 11-0-14, Interior(1) 11-0-14 to 12-8-15, Exterior(2) 12-8-15 to 15-8-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 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 except (jt=lb) 8=157, 6=157.



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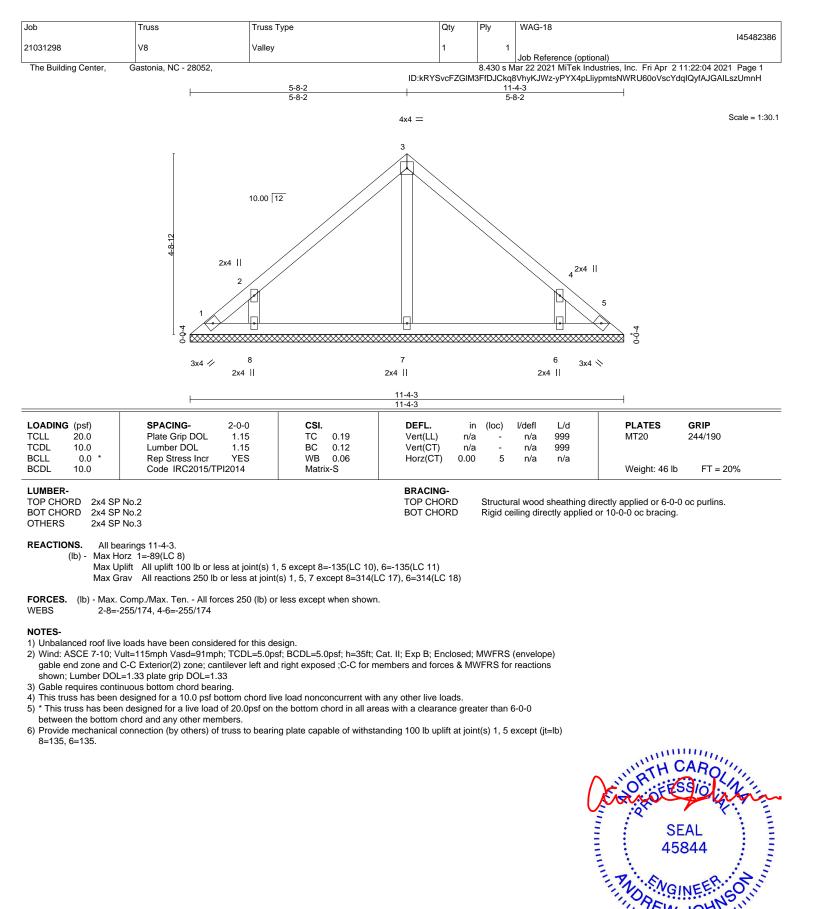






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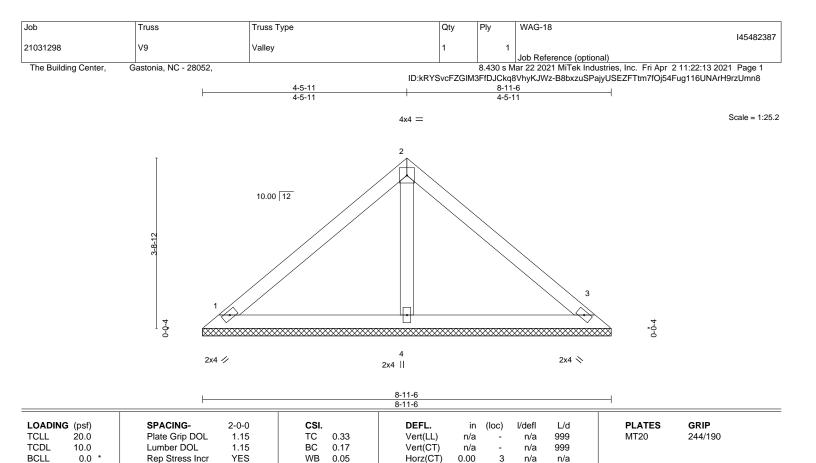
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April 5,2021



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

BCDL

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

10.0

OTHERS 2x4 SP No.3 REACTIONS. (size) 1=8-11-6, 3=8-11-6, 4=8-11-6

2x4 SP No.2

Max Horz 1=-69(LC 6)

Max Uplift 1=-31(LC 11), 3=-40(LC 11) Max Grav 1=187(LC 1), 3=187(LC 1), 4=278(LC 1)

Code IRC2015/TPI2014

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

3) Gable requires continuous bottom chord bearing.

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.



Weight: 34 lb

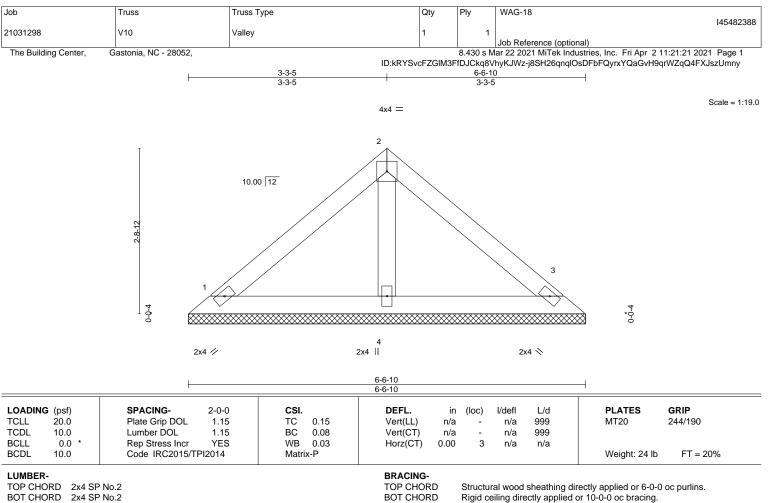
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

FT = 20%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MiTek Affiliate 818 Soundside Road Edenton, NC 27932



OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-6-10, 3=6-6-10, 4=6-6-10 Max Horz 1=-48(LC 6) Max Uplift 1=-22(LC 11), 3=-28(LC 11)

Max Grav 1=132(LC 1), 3=132(LC 1), 4=196(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Gable requires continuous bottom chord bearing.

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

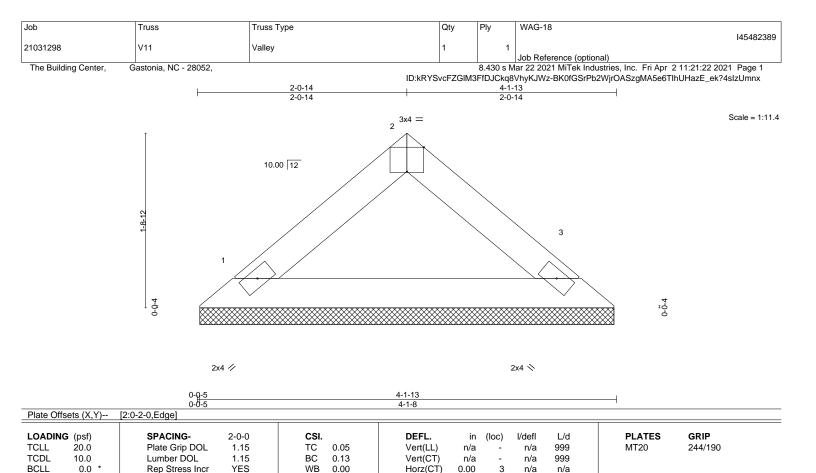
between the bottom chord and any other members.

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



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818 Soundside Road Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

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

NO	TE	ES-

BCDL

LUMBER-

BOT CHORD

REACTIONS.

10.0

TOP CHORD 2x4 SP No.2

2x4 SP No.2

(size) Max Horz 1=28(LC 9)

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

1=4-1-3, 3=4-1-3

Max Uplift 1=-10(LC 10), 3=-10(LC 11) Max Grav 1=134(LC 1), 3=134(LC 1)

Code IRC2015/TPI2014

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

3) Gable requires continuous bottom chord bearing.

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

\* 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 5)

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.



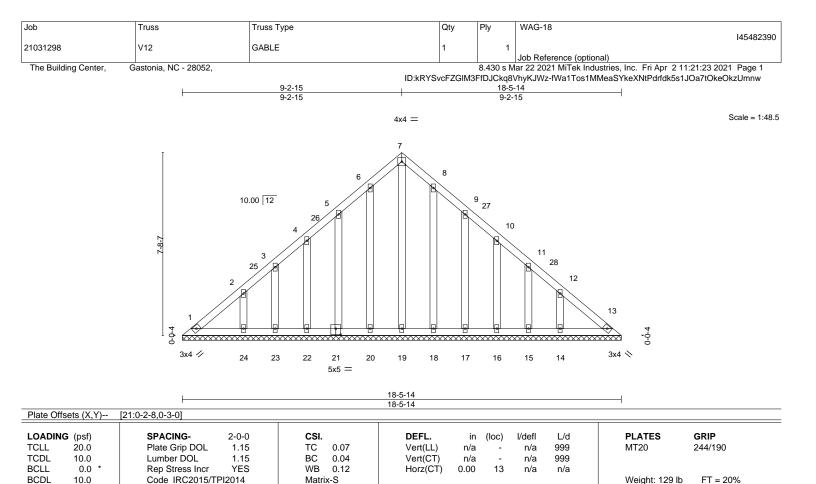
FT = 20%

Weight: 13 lb

Structural wood sheathing directly applied or 4-1-13 oc purlins.

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	MODE	
LU	JMBER	ζ-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 18-5-14.

(Ib) - Max Horz 1=-149(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-2-15, Exterior(2) 6-2-15 to 12-2-15, Interior(1) 12-2-15 to 15-1-1, Exterior(2) 15-1-1 to 18-1-1 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

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

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.

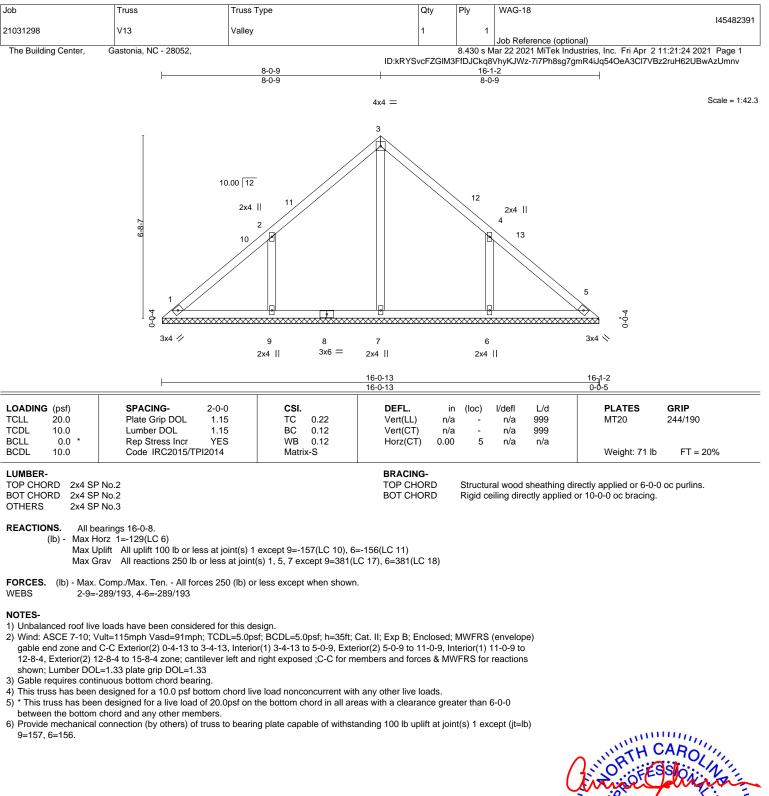
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14.



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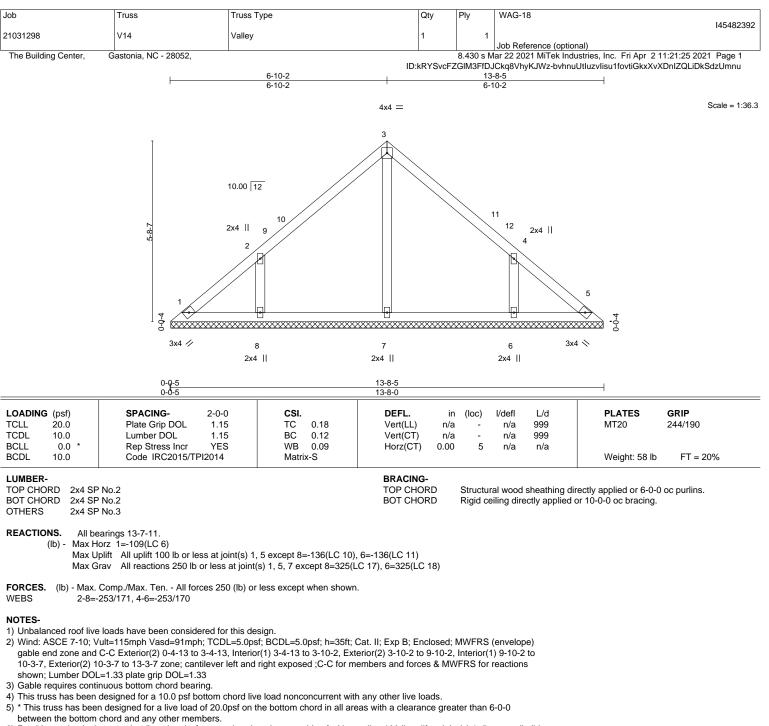
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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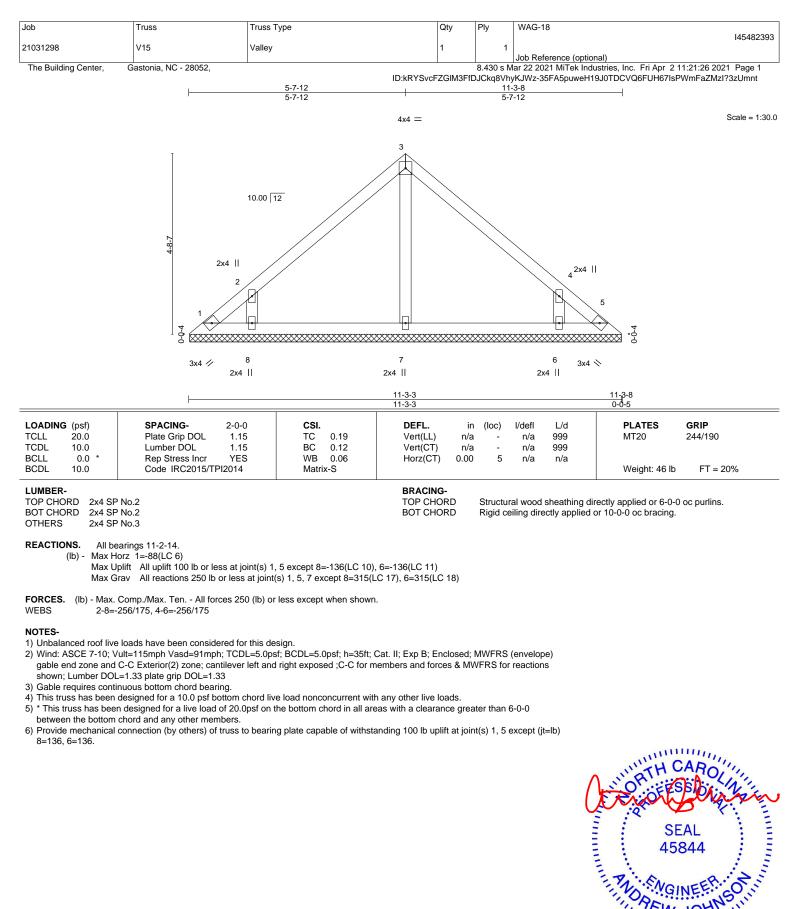


6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=136, 6=136.



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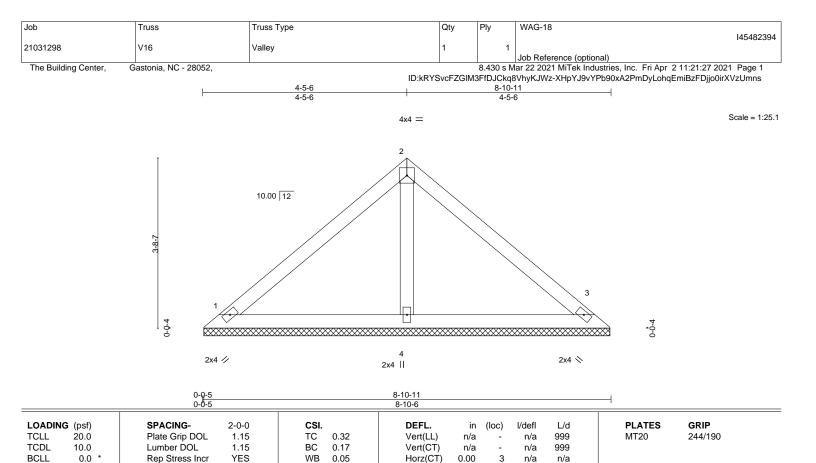
A MiTek A 818 Soundside Road Edenton, NC 27932





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818 Soundside Road Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

BCDL

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

2x4 SP No.2

10.0

REACTIONS. (size) 1=8-10-2, 3=8-10-2, 4=8-10-2 Max Horz 1=-68(LC 6) Max Uplift 1=-31(LC 11), 3=-39(LC 11) Max Grav 1=186(LC 1), 3=186(LC 1), 4=276(LC 1)

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

Code IRC2015/TPI2014

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

3) Gable requires continuous bottom chord bearing.

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.



Weight: 33 lb

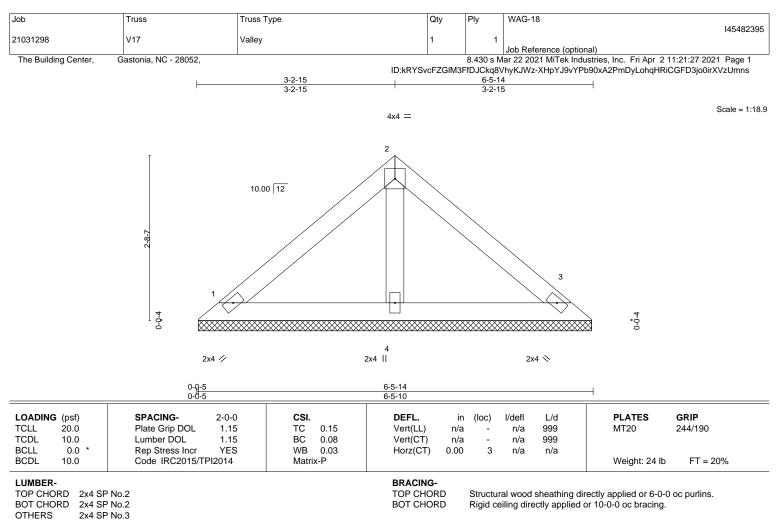
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

FT = 20%

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REACTIONS. (size) 1=6-5-5, 3=6-5-5, 4=6-5-5 Max Horz 1=48(LC 9) Max Uplift 1=-22(LC 11), 3=-28(LC 11) Max Grav 1=130(LC 1), 3=130(LC 1), 4=194(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Gable requires continuous bottom chord bearing.

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

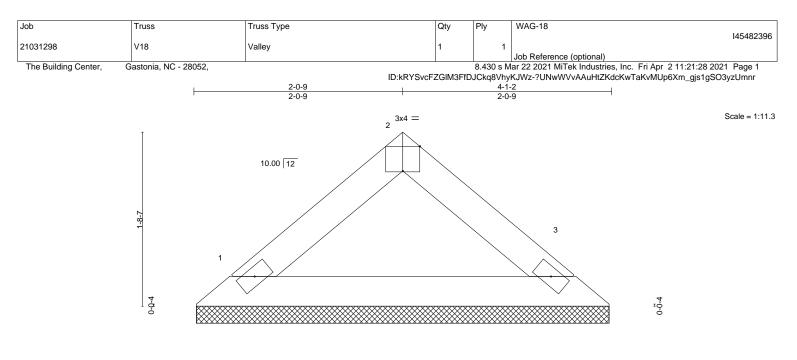
between the bottom chord and any other members.

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



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2x4 🥢

2x4 📎

Structural wood sheathing directly applied or 4-1-2 oc purlins.

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

				4-0-13 4-0-13					<u>4-1</u> -2 0-0-5	
Plate Offsets (X,Y)	[2:0-2-0,Edge]									
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix	-P						Weight: 12 lb	FT = 20%

TOP CHORD

BOT CHORD

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

REACTIONS. 1=4-0-8, 3=4-0-8 (size) Max Horz 1=-28(LC 8) Max Uplift 1=-10(LC 10), 3=-10(LC 11) Max Grav 1=131(LC 1), 3=131(LC 1)

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 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Gable requires continuous bottom chord bearing.

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.



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