

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: 26815  
Whittenton Bldrs/Register

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

Pages or sheets covered by this seal: I53381649 thru I53381694

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



August 1, 2022

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.

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381649
26815	CJ1	Diagonal Hip Girder	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:00 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yziFBs-FSXiWqVlxg29m4nsKvJPTdsEclLbds8Qgg7XNytF\_9



Scale = 1:40.7

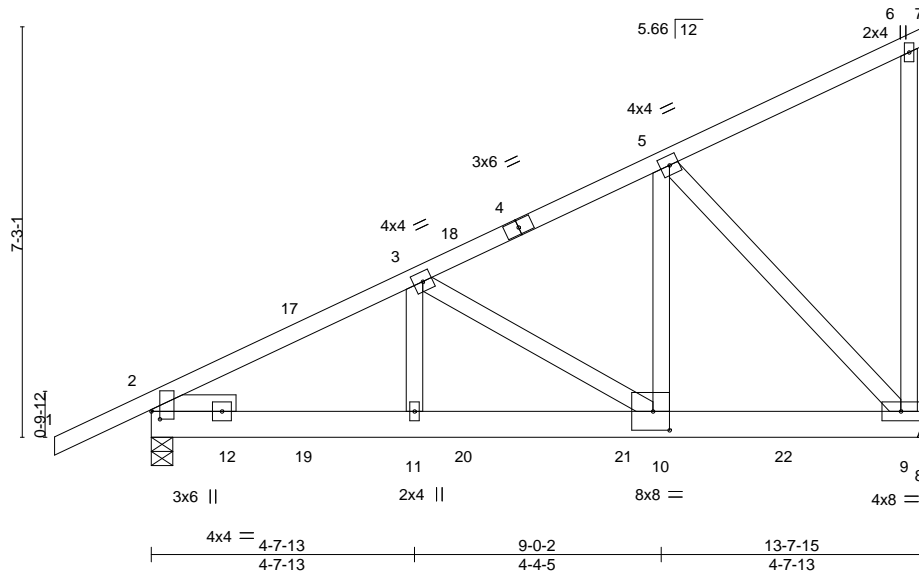


Plate Offsets (X,Y)--	[2:0-1-10,0-1-13], [10:0-3-8,0-4-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.03 9-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.05 9-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 9 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.03 9-10 >999 240	Weight: 95 lb	FT = 20%

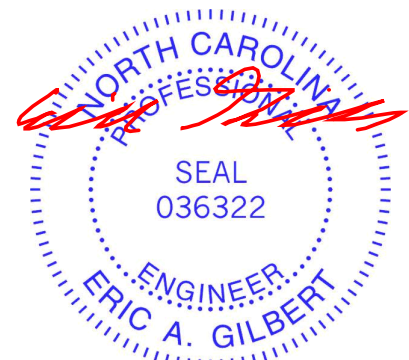
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	

**REACTIONS.** (size) 9=Mechanical, 2=0-4-9  
 Max Horz 2=267(LC 7)  
 Max Uplift 9=-349(LC 5), 2=-212(LC 8)  
 Max Grav 9=1246(LC 1), 2=892(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1254/268, 3-5=-1028/287  
 BOT CHORD 2-11=-333/1074, 10-11=-333/1074, 9-10=-284/845  
 WEBS 3-10=-266/57, 5-10=-289/978, 5-9=-1206/382

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 9 and 212 lb uplift at joint 2.
  - 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.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 35 lb up at 2-8-7, 57 lb down and 35 lb up at 2-8-7, and 88 lb down and 81 lb up at 5-6-6, and 88 lb down and 81 lb up at 5-6-6 on top chord, and 5 lb down and 4 lb up at 2-8-7, 5 lb down and 4 lb up at 2-8-7, 24 lb down and 4 lb up at 5-6-6, 24 lb down and 4 lb up at 5-6-6, 190 lb down and 93 lb up at 8-4-5, 190 lb down and 93 lb up at 8-4-5, and 273 lb down and 114 lb up at 11-2-4, and 273 lb down and 114 lb up at 11-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-6=-60, 6-7=-20, 8-13=-20



Continued on page 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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	CJ1	Diagonal Hip Girder	1	1	I53381649
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:00 2022 Page 2  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-FSXiWqVlxg29m4nsKvJPTdsEcLabdJs8Qgg7XNytF\_9

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 18=-14(F=-7, B=-7) 19=7(F=4, B=4) 20=-20(F=-10, B=-10) 21=-380(F=-190, B=-190) 22=-545(F=-273, B=-273)

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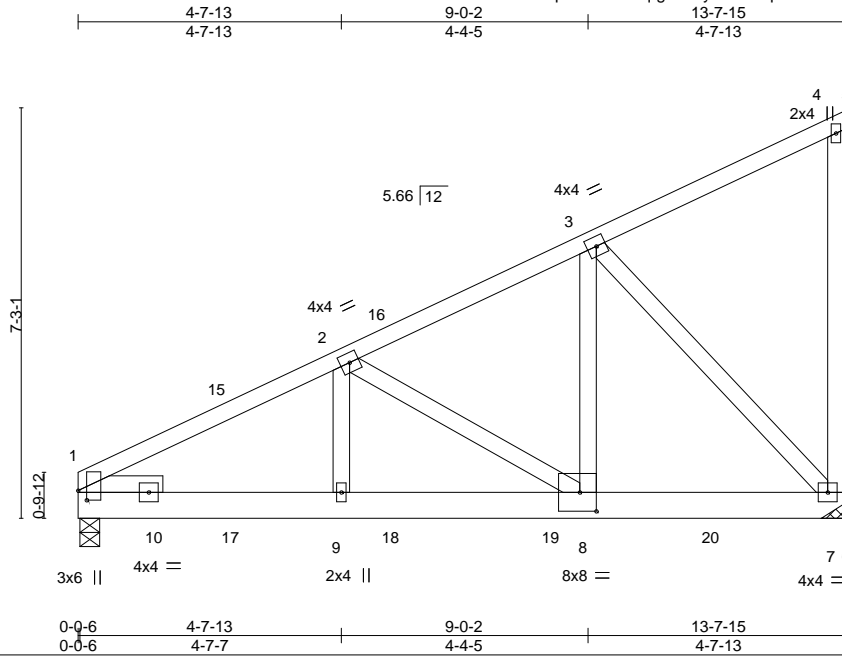
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381650
26815	CJ2	Diagonal Hip Girder	1	1		

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:02 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-BqfSwWX?THIt?OxERKltY2xa69Fw5DzRt\_9EbFytF\_7



Scale = 1:40.7

Plate Offsets (X, Y)--	[1:0-2-0,0-1-13], [8:0-3-8,0-4-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.03 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.05 7-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.03 7-8 >999 240	Weight: 92 lb	FT = 20%

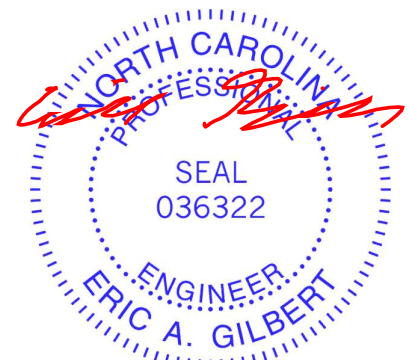
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	

**REACTIONS.** (size) 1=0-4-3, 7=Mechanical  
 Max Horz 1=254(LC 7)  
 Max Uplift 1=-164(LC 8), 7=-361(LC 5)  
 Max Grav 1=802(LC 28), 7=1272(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1297/304, 2-3=-1046/300  
 BOT CHORD 1-9=-359/1120, 8-9=-359/1120, 7-8=-293/862  
 WEBS 2-8=-301/79, 3-8=-305/1006, 3-7=-1238/397

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 1 and 361 lb uplift at joint 7.
  - 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.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 51 lb up at 2-8-7, 57 lb down and 35 lb up at 2-8-7, and 92 lb down and 87 lb up at 5-6-6, and 88 lb down and 81 lb up at 5-6-6 on top chord, and 6 lb down and 11 lb up at 2-8-7, 5 lb down and 4 lb up at 2-8-7, 27 lb down at 5-6-6, 24 lb down at 5-6-6, 200 lb down and 98 lb up at 8-4-5, 190 lb down and 93 lb up at 8-4-5, and 280 lb down and 117 lb up at 11-2-4, and 273 lb down and 114 lb up at 11-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-60, 4-5=-20, 6-11=-20



August 1, 2022

Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	CJ2	Diagonal Hip Girder	1	1	I53381650
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:02 2022 Page 2  
 ID:m3JJ6pNkJbuT4FqgLho0yzifBs-BqfSwWX?THIt?OxERKLTy2xa69Fw5DzRt\_9EbFytF\_7

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 16=-23(F=-7, B=-16) 17=1(F=4, B=-3) 18=-27(F=-10, B=-17) 19=-390(F=-190, B=-200) 20=-553(F=-273, B=-280)

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818 Soundside Road  
 Edenton, NC 27932

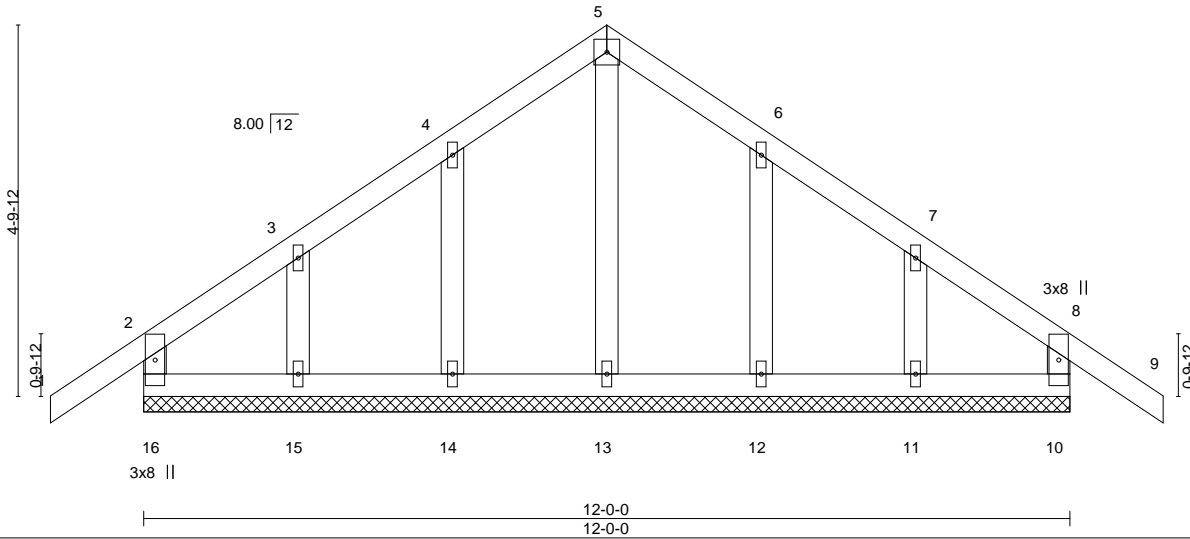
Job 26815	Truss G1	Truss Type Common Supported Gable	Qty 1	Ply 1	Whittenton Bldrs/Register 153381651
C&R Truss, Autryville, NC - 28318,					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:03 2022 Page 1  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-f1Dq8sXdEbQkdYWR?1s65GUp3ZjoquFa6euo8iytF\_6



4x4 =

Scale = 1:29.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.01	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 65 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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 12-0-0.  
(lb) - Max Horz 16=128(LC 6)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11  
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 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) 16, 10, 14, 15, 12, 11.
- 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.



August 1, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

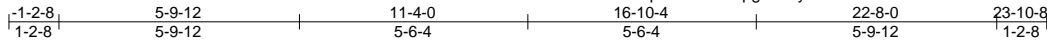


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381652
26815	G2	GABLE	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:04 2022 Page 1  
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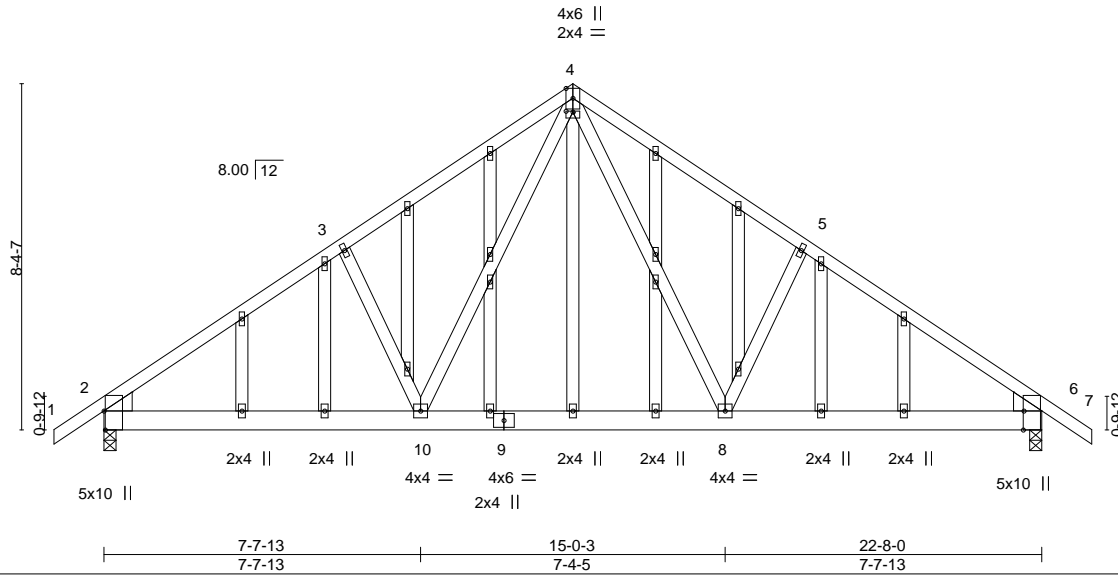


Plate Offsets (X,Y)--	[2:0-5-8,Edge], [4:0-2-0,0-0-4], [6:0-5-8,Edge]
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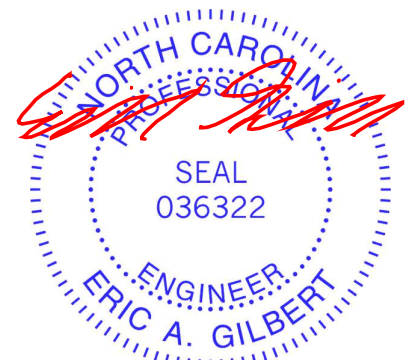
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.07 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.11 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.02 8-10 >999 240	Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x6 SP No.1 , Right: 2x6 SP No.1	

REACTIONS.
(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-187(LC 6)
Max Uplift 2=-111(LC 8), 6=-111(LC 8)
Max Grav 2=1000(LC 13), 6=1000(LC 14)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1273/132, 3-4=-1173/194, 4-5=-1173/194, 5-6=-1273/132
BOT CHORD 2-10=0/1112, 8-10=0/756, 6-8=0/997
WEBS 4-8=-54/571, 5-8=-288/151, 4-10=-54/571, 3-10=-288/151

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 6=111.
  - 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.
  - 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.



August 1, 2022

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

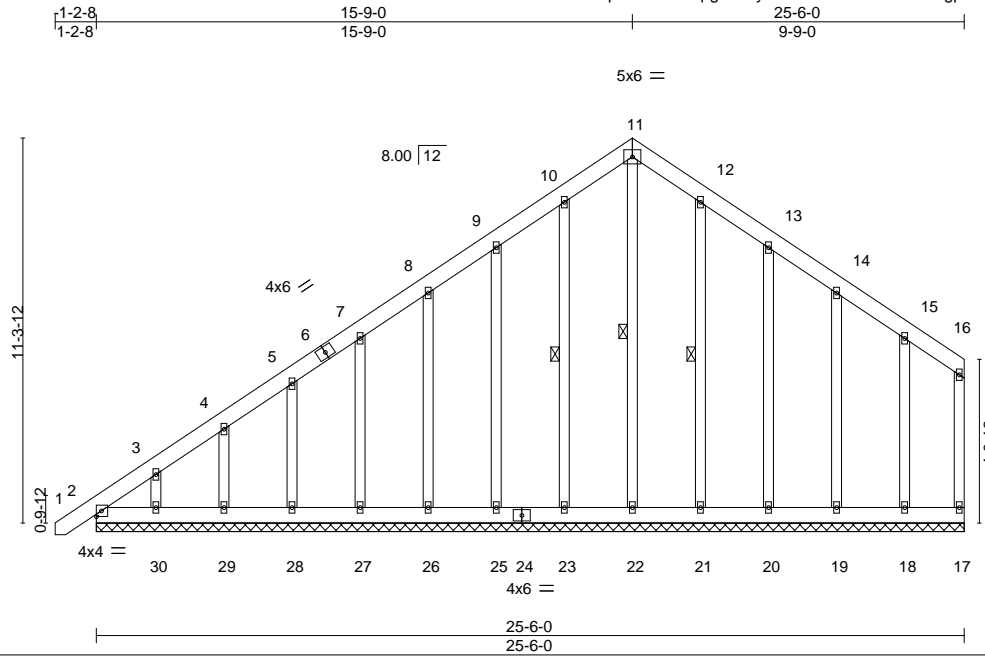
818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381653
26815	G3	GABLE	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:05 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-cPKbZXZmChRsrpg7SuaAhZ8IMPRIm2tayNuCaytF\_4



Scale = 1:67.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 252 lb	FT = 20%

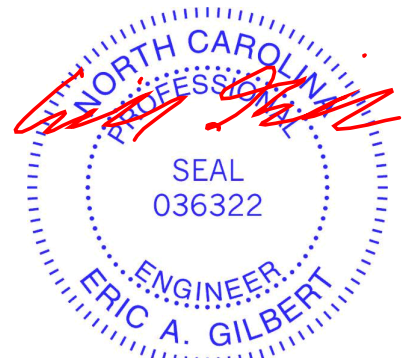
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 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.  
 WEBS 1 Row at midpt 11-22, 10-23, 12-21

**REACTIONS.** All bearings 25-6-0.  
 (lb) - Max Horz 2=318(LC 7)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 22, 23, 25, 26, 27, 28, 29, 30, 20, 19, 18  
 Max Grav All reactions 250 lb or less at joint(s) 2, 17, 23, 25, 26, 27, 28, 29, 30, 21, 20, 19, 18 except 22=259(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-324/275, 3-4=-285/238, 4-5=-267/217, 5-7=-250/198, 10-11=-173/261, 11-12=-154/261

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - 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 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) 2, 17, 22, 23, 25, 26, 27, 28, 29, 30, 20, 19, 18.
  - 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.



August 1, 2022

**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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932



Job 26815	Truss G4	Truss Type Common Supported Gable	Qty 1	Ply 1	Whittenton Bldrs/Register 153381654
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:06 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-4buzmtaVXWpIU?F?g9Qpju6Jlmk71B1oc7Sk1ytF\_3



4x4 =

Scale = 1:51.7

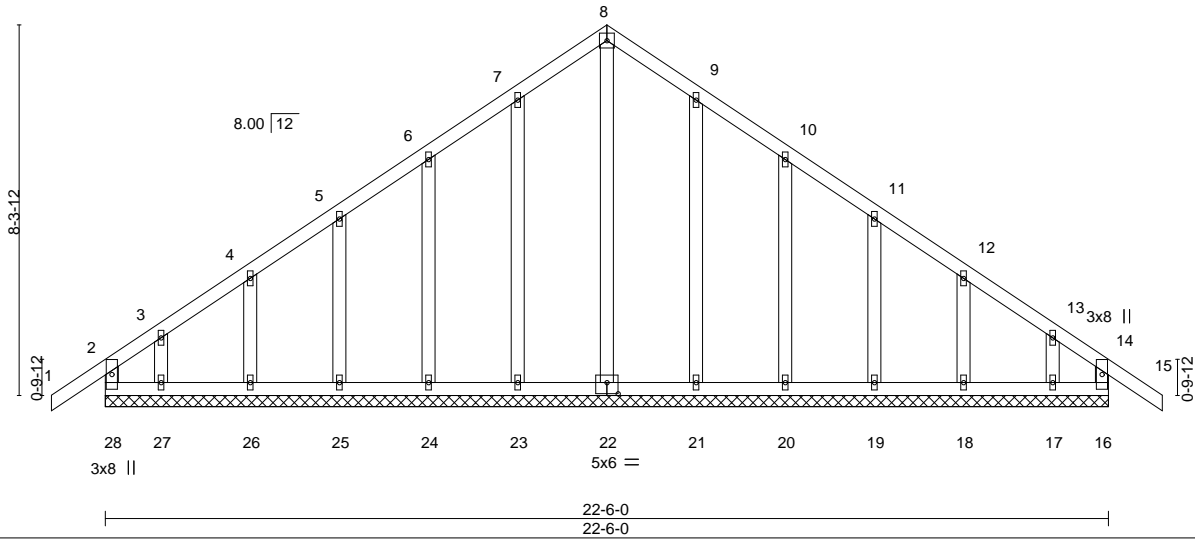


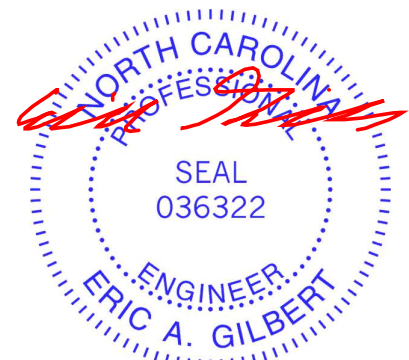
Plate Offsets (X,Y)--	[22:0-3-0,0-3-0]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	16	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 147 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 22-6-0.  
 (lb) - Max Horz 28--207(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17  
 Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 1.5x4 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 2-0-0 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.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.
  - 11) 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.



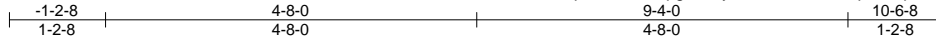
August 1, 2022

Job 26815	Truss G5	Truss Type GABLE	Qty 1	Ply 1	Whittenton Bldrs/Register 153381655
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C&R Truss, Autryville, NC - 28318,

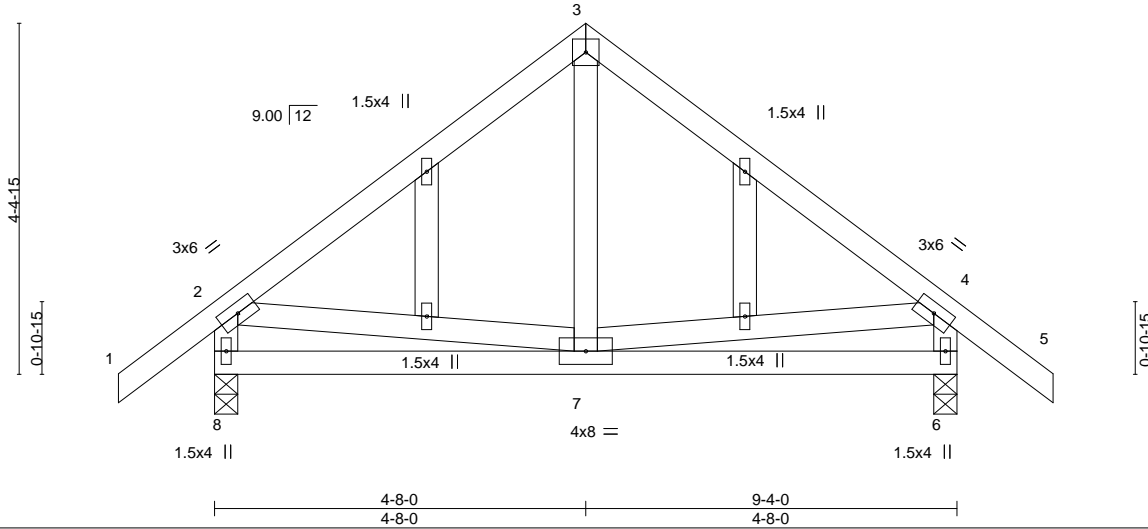
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:07 2022 Page 1

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4x4 =

Scale = 1:29.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00	7	>999		
								Weight: 62 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP 2400F 2.0E  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 8=0-3-8, 6=0-3-8  
Max Horz 8=126(LC 7)  
Max Uplift 8=-74(LC 8), 6=-74(LC 8)  
Max Grav 8=443(LC 1), 6=443(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-351/50, 3-4=-351/50, 2-8=-399/99, 4-6=-399/99

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Gable studs spaced at 2-0-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
  - 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.
  - 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.



August 1, 2022

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Job 26815	Truss GR1	Truss Type Common Girder	Qty 1	Ply 2	Whittenton Bldrs/Register 153381656
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:09 2022 Page 1

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Scale = 1:30.1

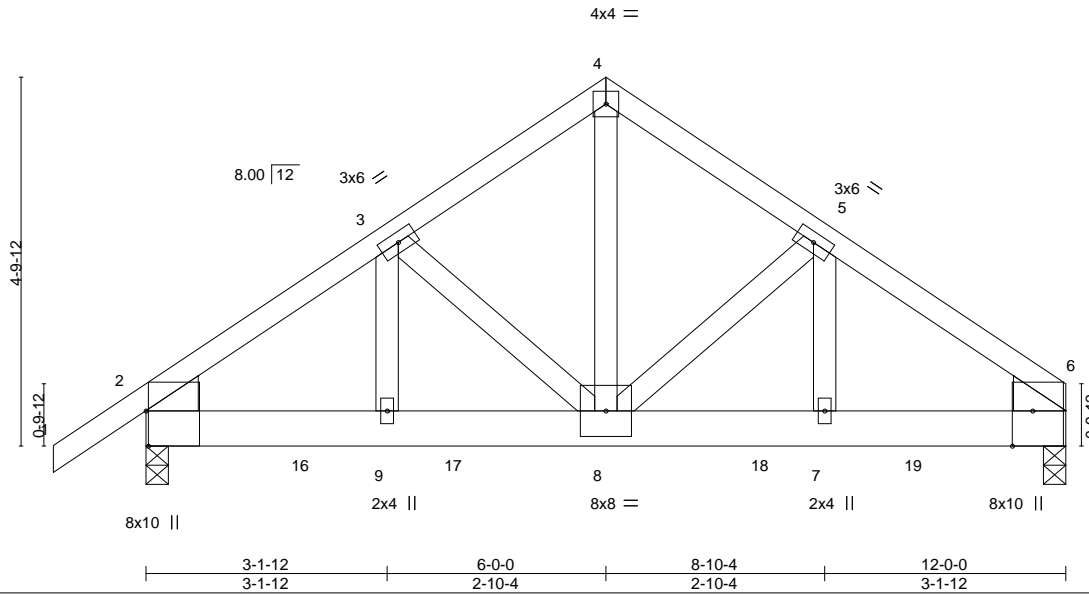


Plate Offsets (X, Y)--	[2:0-5-8,Edge], [6:0-5-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.03 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.06 8-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.02 8-9 >999 240	Weight: 156 lb	FT = 20%

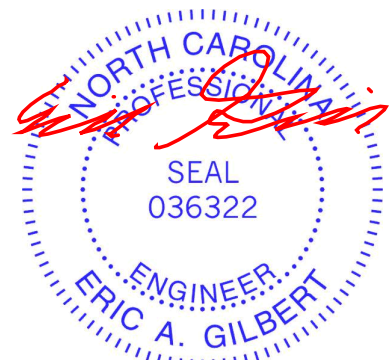
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x6 SP No.1 , Right: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=103(LC 7)  
 Max Uplift 2=310(LC 8), 6=-452(LC 8)  
 Max Grav 2=3112(LC 2), 6=5461(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3918/357, 3-4=-3073/319, 4-5=-3077/320, 5-6=-4066/376  
 BOT CHORD 2-9=-252/3187, 8-9=-252/3187, 7-8=-269/3324, 6-7=-269/3324  
 WEBS 3-9=-76/1000, 3-8=-858/114, 4-8=-292/3172, 5-8=-1042/138, 5-7=-91/1166

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - 3) Unbalanced roof live loads have been considered for this design.
  - 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) except (jt=lb) 2=310, 6=452.
  - 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.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1045 lb down and 100 lb up at 2-0-12, 1045 lb down and 100 lb up at 4-0-12, 1045 lb down and 100 lb up at 6-0-12, 1045 lb down and 100 lb up at 8-0-12, 1045 lb down and 100 lb up at 10-0-12, and 1052 lb down and 94 lb up at 11-7-4, and 1396 lb down and 106 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 Continued on page 2



August 1, 2022

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 26815	Truss GR1	Truss Type Common Girder	Qty 1	Ply <b>2</b>	Whittenton Bldrs/Register 153381656 Job Reference (optional)
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:09 2022 Page 2  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-UAa6OvcOpRbTLTzaMizWKXjo5\_fwERJTUaL6LLytF\_0

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-993(F) 13=-1144(F) 15=-1000(F) 16=-993(F) 17=-993(F) 18=-993(F) 19=-993(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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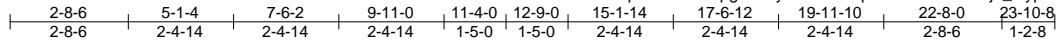


818 Soundside Road  
Edenton, NC 27932

Job 26815	Truss GR2	Truss Type COMMON GIRDER	Qty 1	Ply 2	Whittenton Bldrs/Register 153381657
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:11 2022 Page 1



5x6 =

Scale = 1:52.7

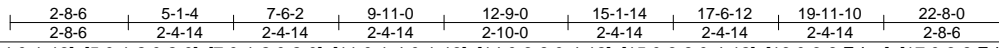
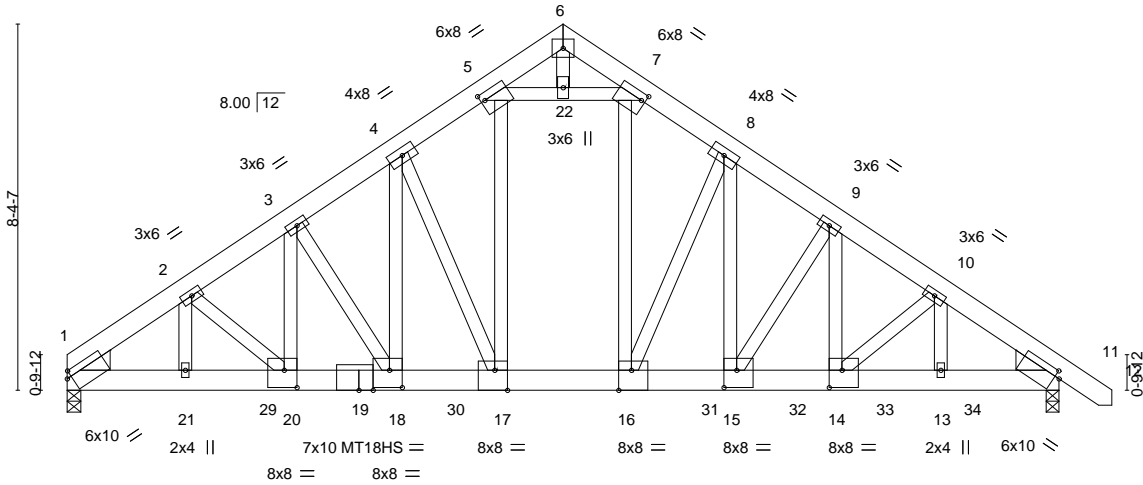


Plate Offsets (X,Y)-- [1:0-1-4,0-1-13], [5:0-1-2,0-2-0], [7:0-1-2,0-2-0], [11:0-1-4,0-1-13], [14:0-3-8,0-4-12], [15:0-3-8,0-4-12], [16:0-3-8,Edge], [17:0-3-8,Edge], [18:0-3-8,0-4-12], [19:0-3-14,0-0-0], [20:0-3-8,0-4-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.34	Vert(LL) -0.10	18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.51	Vert(CT) -0.20	18	>999	240	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr NO		WB 0.99	Horz(CT) 0.06	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL) 0.08	18	>999	240		Weight: 429 lb FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP 2400F 2.0E  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-12, 11=0-3-8  
Max Horz 1=-120(LC 6)  
Max Uplift 1=-1144(LC 8), 11=-806(LC 8)  
Max Grav 1=9120(LC 1), 11=5545(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-11750/1560, 2-3=-11689/1634, 3-4=-10502/1569, 4-5=-8691/1441, 5-6=-1428/292, 6-7=-1633/261, 7-8=-8537/1462, 8-9=-8780/1417, 9-10=-8695/1308, 10-11=-8077/1164  
BOT CHORD 1-21=-1207/9412, 20-21=-1207/9412, 18-20=-1301/9828, 17-18=-1181/8674, 16-17=-1115/7452, 15-16=-1052/7177, 14-15=-1027/7331, 13-14=-885/6435, 11-13=-885/6435  
WEBS 7-16=-791/4107, 8-16=-288/460, 8-15=0/289, 9-15=-283/0, 9-14=-286/221, 10-14=-229/1204, 10-13=-652/153, 5-17=-690/4795, 4-17=-3453/224, 4-18=-313/4203, 3-18=-2122/221, 3-20=-144/2089, 2-20=-173/572, 2-21=0/324, 5-22=-6254/1056, 7-22=-6254/1056, 6-22=-275/1630

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - 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 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) except (jt=lb) 1=1144, 11=806.



August 1, 2022

Continued on page 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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job 26815	Truss GR2	Truss Type COMMON GIRDER	Qty 1	Ply <b>2</b>	Whittenton Bldrs/Register I53381657 Job Reference (optional)
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:11 2022 Page 2  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-QZispbeeL2Rbam7zTj?\_Qyp7onK6iGYmytqDQEytF\_\_

**NOTES-**

- 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1248 lb down and 107 lb up at 0-6-12, 1245 lb down and 110 lb up at 2-6-12, 1245 lb down and 110 lb up at 4-6-12, 1311 lb down and 147 lb up at 6-6-12, 1246 lb down and 110 lb up at 6-10-4, 1246 lb down and 110 lb up at 8-10-4, 1382 lb down and 333 lb up at 9-10-4, 3818 lb down and 1033 lb up at 12-9-8, 283 lb down at 14-8-0, 203 lb down at 16-8-0, and 132 lb down at 18-8-0, and 54 lb down at 20-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-6=-40, 6-12=-40, 23-26=-13

Concentrated Loads (lb)

Vert: 19=-2557(B) 16=-3818(B) 17=-1382(B) 21=-1245(B) 25=-1248(B) 29=-1245(B) 30=-1246(B) 31=-283(B) 32=-203(B) 33=-132(B) 34=-54(B)

**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 systems, see **ANSI/TPI1 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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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381658
26815	H1	Half Hip Girder	1	2	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:13 2022 Page 1  
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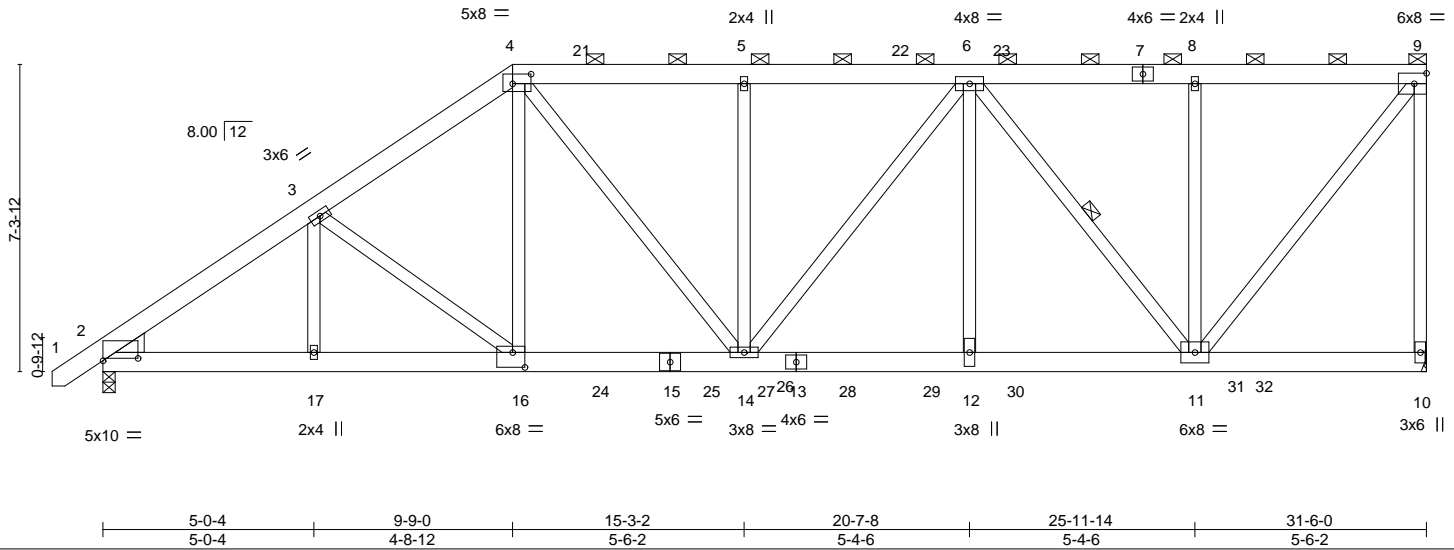


Plate Offsets (X,Y)-- [2:0-10-0-0-11], [4:0-5-4-0-2-12], [16:0-3-8,0-4-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.10 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.20 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.13 14-16	>999	240	Weight: 533 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-11
WEDGE	
Left: 2x6 SP No.2	

**REACTIONS.** (size) 10=Mechanical, 2=0-3-8  
 Max Horz 2=269(LC 26)  
 Max Uplift 10=1020(LC 5), 2=-1124(LC 8)  
 Max Grav 10=4112(LC 31), 2=4121(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-6328/1744, 3-4=-6460/1939, 4-5=-6111/1789, 5-6=-6111/1789, 6-8=-3093/861, 8-9=-3093/861, 9-10=-4026/1048  
 BOT CHORD 2-17=-1515/5209, 16-17=-1515/5209, 14-16=-1656/5446, 12-14=-1525/5506, 11-12=-1525/5506  
 WEBS 3-17=-357/232, 3-16=-411/508, 4-16=-815/2368, 4-14=-217/1204, 5-14=-326/118, 6-14=-403/1048, 6-12=-458/2003, 6-11=-3922/1103, 8-11=-355/138, 9-11=-1280/4962

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1020, 2=1124.
  - 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.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2022

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932



Job 26815	Truss H1	Truss Type Half Hip Girder	Qty 1	Ply <b>2</b>	Whittenton Bldrs/Register 153381658 Job Reference (optional)
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:13 2022 Page 2  
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**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1572 lb down and 484 lb up at 9-9-0, 646 lb down and 468 lb up at 11-9-12, 355 lb down and 106 lb up at 11-9-12, 355 lb down and 106 lb up at 13-9-12, 355 lb down and 106 lb up at 15-9-0, 355 lb down and 106 lb up at 17-8-4, and 355 lb down and 106 lb up at 19-8-4, and 1598 lb down and 495 lb up at 21-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 10-18=-20

Concentrated Loads (lb)

Vert: 16=-1572(B) 24=-585(F=-231, B=-354) 25=-354(B) 27=-354(B) 28=-354(B) 29=-354(B) 30=-1598(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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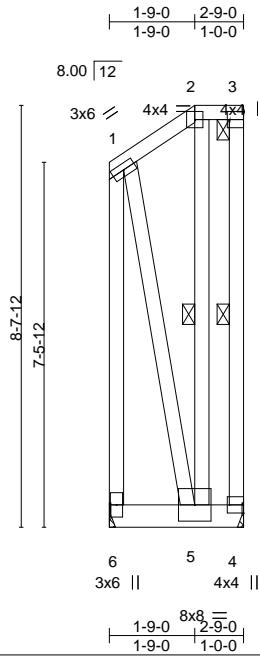
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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381659
26815	H2	Half Hip Girder	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:13 2022 Page 1

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Plate Offsets (X, Y)--	[3:Edge,0-3-8], [4:Edge,0-3-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) 0.01 5 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.01 5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 56 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-4, 2-5

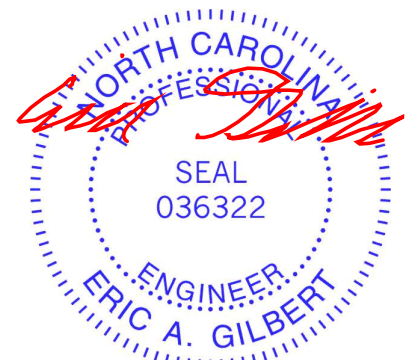
**REACTIONS.** (size) 4=Mechanical, 6=Mechanical  
 Max Horz 6=295(LC 5)  
 Max Uplift 4=-582(LC 5), 6=-423(LC 4)  
 Max Grav 4=740(LC 31), 6=658(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-6=-704/535  
 BOT CHORD 5-6=-265/202  
 WEBS 1-5=-617/690

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=582, 6=423.
  - 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.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 438 lb down and 119 lb up at 1-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-438(F)



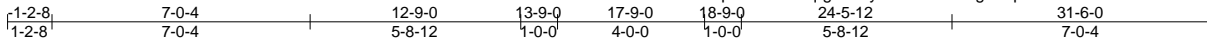
August 1, 2022

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381660
26815	HP1	Hip	1	1	Job Reference (optional)	

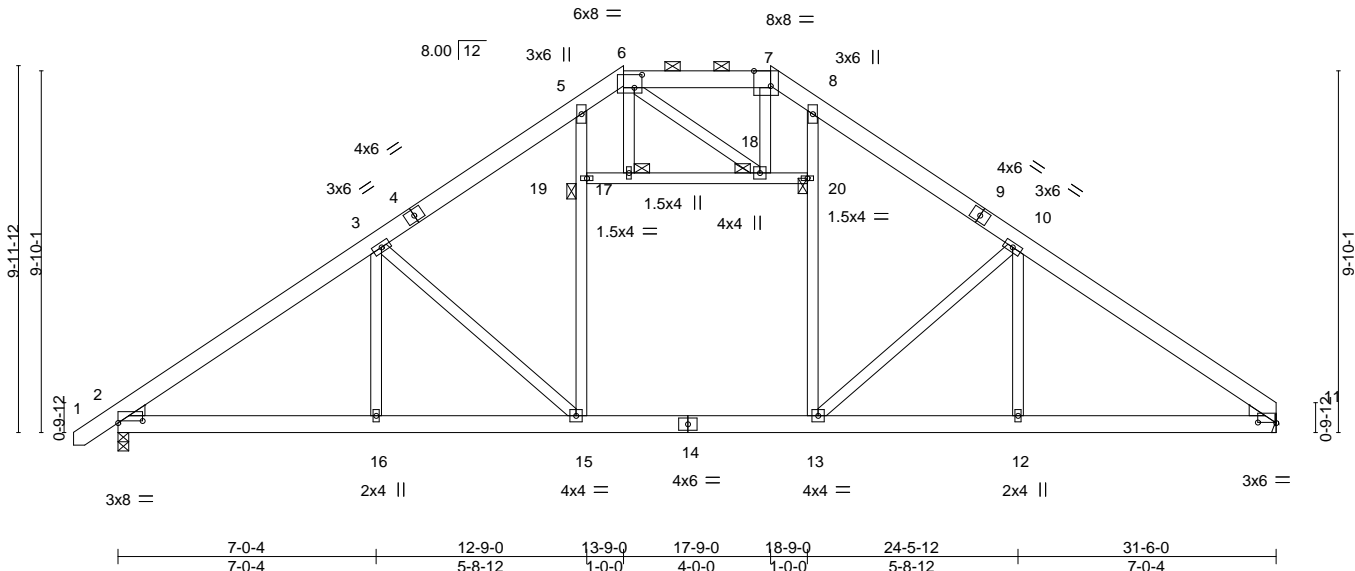
C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:14 2022 Page 1

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Scale = 1:62.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.10 12-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.15 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) -0.06 15-16 >999 240	Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	JOINTS 1 Brace at Jt(s): 17, 18, 19, 20
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 11=Mechanical  
 Max Horz 2=222(LC 7)  
 Max Uplift 2=-134(LC 8), 11=-97(LC 8)  
 Max Grav 2=1324(LC 1), 11=1259(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1820/175, 3-5=-1437/212, 5-6=-1041/218, 6-7=-1101/227, 7-8=-1038/217,  
 8-10=-1437/213, 10-11=-1825/178  
 BOT CHORD 2-16=-56/1560, 15-16=-56/1560, 13-15=0/1165, 12-13=-60/1427, 11-12=-60/1427  
 WEBS 3-15=-531/137, 10-13=-539/142, 15-19=-20/532, 5-19=-11/495, 13-20=-21/534,  
 8-20=-13/498

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=134.
  - 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.
  - 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.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



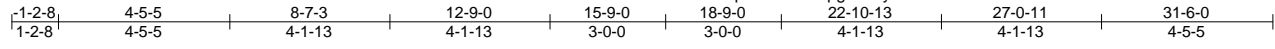
August 1, 2022

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381661
26815	HP2	Hip Girder	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:16 2022 Page 1

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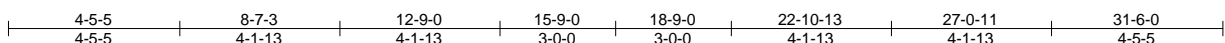
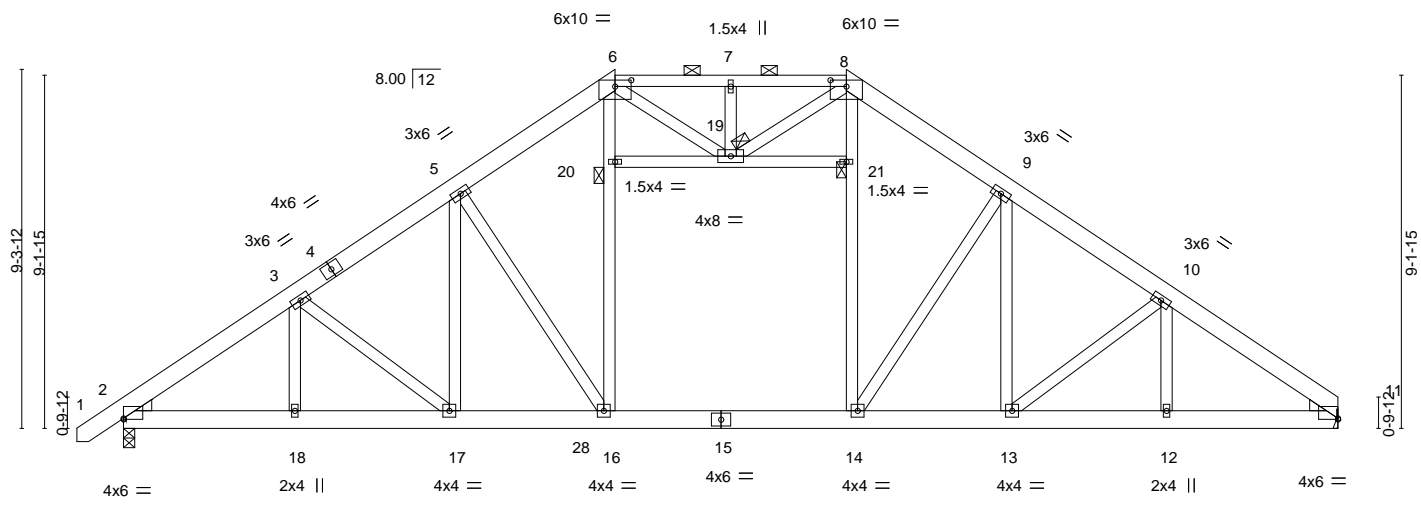


Plate Offsets (X, Y)-- [2:Edge,0-0-5], [6:0-5-0,0-2-0], [8:0-5-0,0-2-0], [11:0-0-0,0-0-5]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	0.29	16-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.34	16-17	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.05	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						
								Weight: 266 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x6 SP No.1 \*Except\*  
6-8: 2x4 SP 2400F 2.0E  
**BOT CHORD** 2x6 SP No.1  
**WEBS** 2x4 SP No.3  
**WEDGE**  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 4-11-2 oc purlins, except  
2-0-0 oc purlins (6-0-0 max.): 6-8.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
8-1-14 oc bracing: 16-17.  
**JOINTS** 1 Brace at Jt(s): 19, 20, 21

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8  
Max Horz 2=208(LC 26)  
Max Uplift 11=-319(LC 8), 2=-505(LC 8)  
Max Grav 11=1508(LC 32), 2=1738(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=-2472/734, 3-5=-2404/868, 5-6=-2016/750, 6-7=-1627/631, 7-8=-1627/631,  
8-9=-1926/675, 9-10=-2045/554, 10-11=-2244/532  
**BOT CHORD** 2-18=-542/2109, 17-18=-542/2109, 16-17=-585/2084, 14-16=-367/1661, 13-14=-318/1638,  
12-13=-379/1778, 11-12=-379/1778  
**WEBS** 3-17=-257/209, 5-17=-268/538, 5-16=-724/366, 16-20=-429/966, 6-20=-428/966,  
14-21=-166/665, 8-21=-171/672, 9-14=-551/327, 9-13=-209/407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=319, 2=505.
  - 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.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705 lb down and 601 lb up at 11-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



**LOAD CASE(S)** Standard  
Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	HP2	Hip Girder	1	1	I53381661 Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:16 2022 Page 2  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-nXVlshnAa3uhY?wGGb97?W0Vo?ZNN1V59Y\_4SytEzv

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-8=-60, 8-11=-60, 22-25=-20

Concentrated Loads (lb)

Vert: 28=-364(B)

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

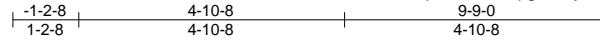
818 Soundside Road  
Edenton, NC 27932

Job 26815	Truss J1	Truss Type Jack-Closed	Qty 7	Ply 1	Whittenton Bldrs/Register 153381662
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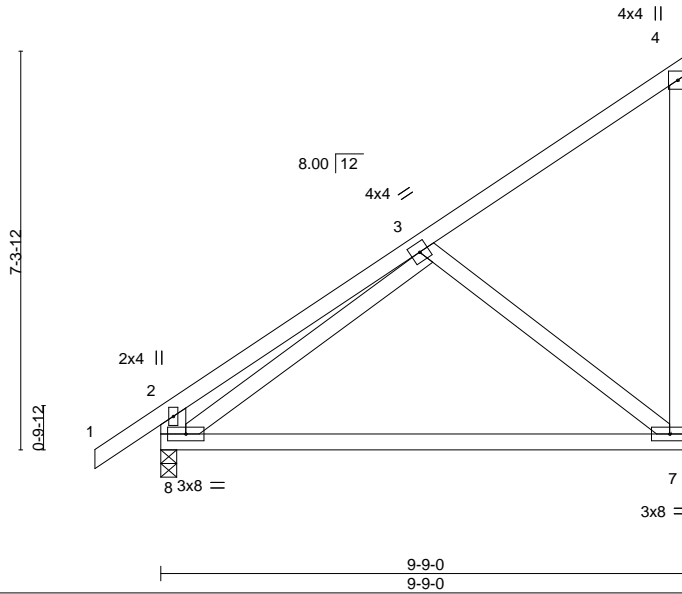
C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:17 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-Fj374eiPxuBIJha7qz6OfD32ECLV6AVeKpHXcuytEzu



Scale = 1:42.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.19 7-8	>582	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.38 7-8	>293	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	-0.05 7-8	>999	240		
								Weight: 62 lb	FT = 20%

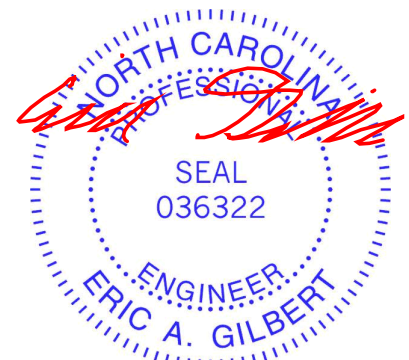
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-8: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 8=0-3-8, 7=Mechanical  
Max Horz 8=276(LC 5)  
Max Uplift 8=64(LC 8), 7=86(LC 5)  
Max Grav 8=463(LC 1), 7=409(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-356/92, 2-3=-429/17  
BOT CHORD 7-8=-131/270  
WEBS 3-8=-31/286, 3-7=-290/120

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 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) 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) 8, 7.
  - 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.
  - 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.



August 1, 2022

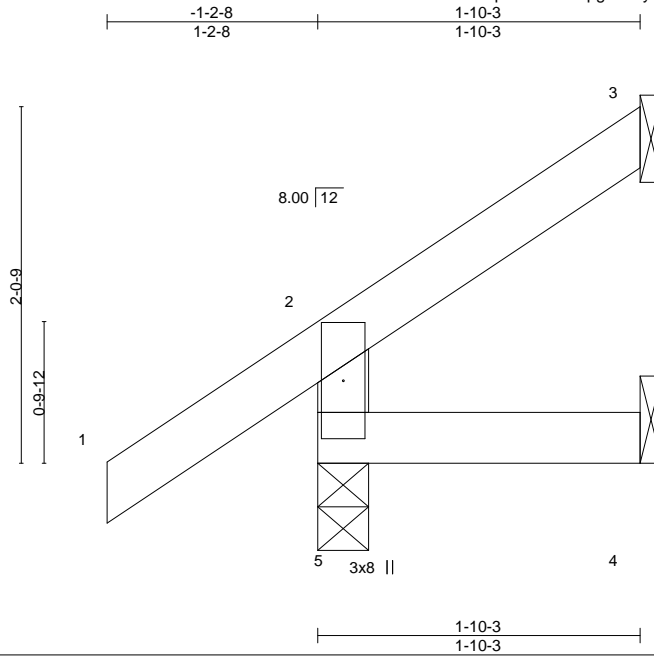
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	J2	Jack-Open	3	1	153381663
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:18 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-jvdVH\_j1iBjw9r9JNhddCQbNGcrHrgnoZT149KytEzt



Scale = 1:13.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.00	5	>999		
	Code IRC2018/TPI2014						Weight: 9 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

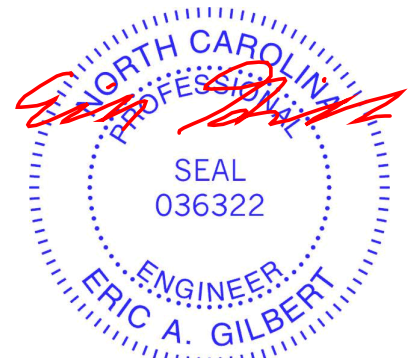
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=90(LC 8)  
 Max Uplift 5=-41(LC 8), 3=-18(LC 8)  
 Max Grav 5=181(LC 1), 3=33(LC 13), 4=29(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 5, 3.
- 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.



August 1, 2022

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**TRENCO**  
 A MiTek Affiliate  
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 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381664
26815	J3	Jack-Open	3	1		

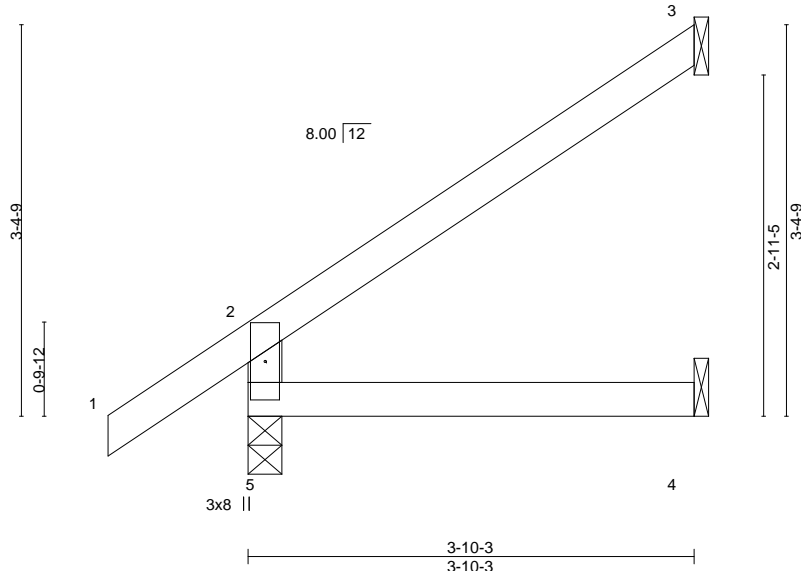
C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:19 2022 Page 1

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Scale = 1:19.9



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 0.18	Vert(LL)	-0.01 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR	Wind(LL)	0.01 4-5	>999	240	Weight: 16 lb	FT = 20%

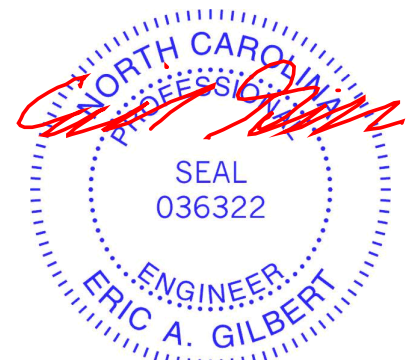
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=129(LC 8)  
 Max Uplift 5=27(LC 8), 3=51(LC 8)  
 Max Grav 5=242(LC 1), 3=100(LC 13), 4=68(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 5, 3.
- 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.



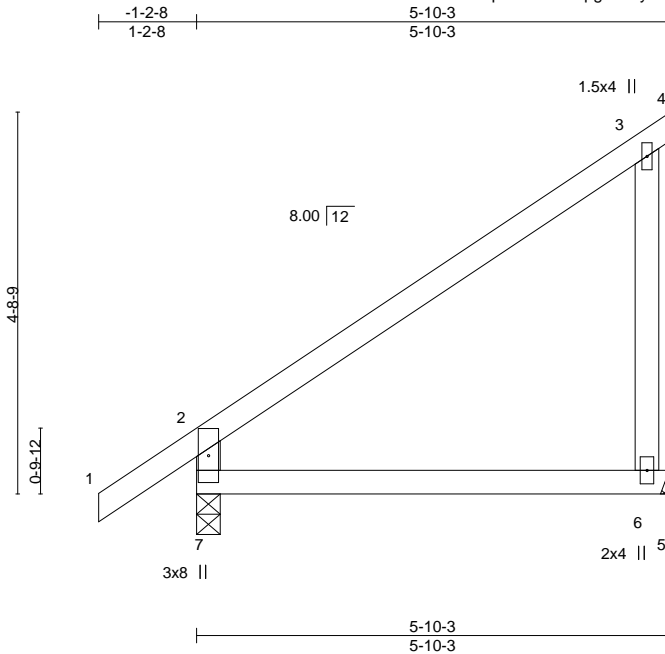
August 1, 2022

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381665
26815	J4	Jack-Open	3	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:20 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-flkGigkHEpaJA9JiV6g5HrheQPRAJaP50nWBDDytEzr



Scale = 1:28.4

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 0.41	Vert(LL)	-0.04 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.09 6-7	>742	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.03 6-7	>999	240	Weight: 28 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

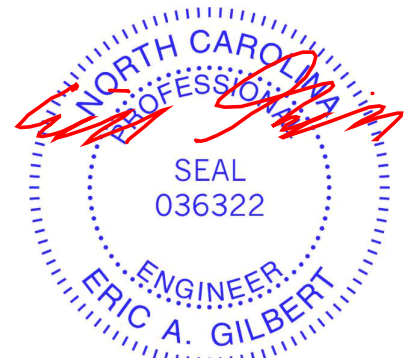
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 7=0-3-8, 6=Mechanical  
 Max Horz 7=170(LC 8)  
 Max Uplift 7=-15(LC 8), 6=-65(LC 8)  
 Max Grav 7=308(LC 1), 6=233(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-259/62

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 7, 6.
- 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.
- 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.



August 1, 2022

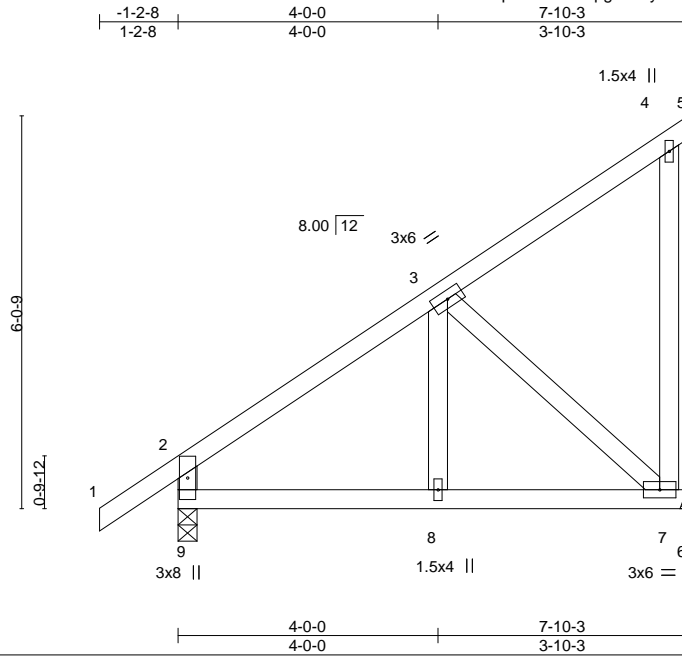
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	J5	Jack-Open	3	1	153381666

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:20 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yziBsfIkGigkHEpaJA9JiV6g5HrhhOPUqJZS50nWBDDytEzr



Scale = 1:35.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	-0.01	7-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	-0.01	7-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.00	8-9	>999		
	Code IRC2018/TPI2014						Weight: 47 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

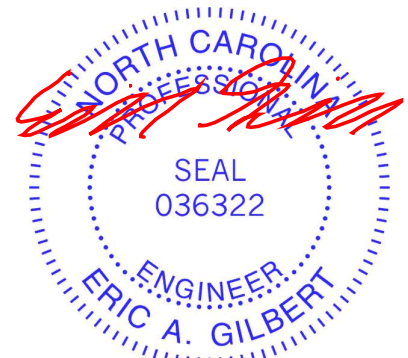
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 9=0-3-8, 7=Mechanical  
 Max Horz 9=210(LC 8)  
 Max Uplift 9=7(LC 8), 7=-85(LC 8)  
 Max Grav 9=385(LC 1), 7=318(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-335/37, 2-3=-299/0  
 WEBS 3-7=-275/91

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 9, 7.
- 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.
- 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.



August 1, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

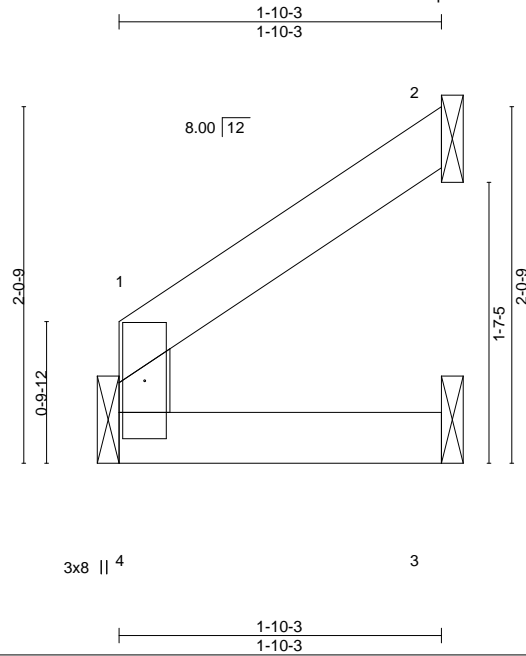


818 Soundside Road  
 Edenton, NC 27932

Job 26815	Truss J6	Truss Type Jack-Open	Qty 1	Ply 1	Whittenton Bldrs/Register 153381667
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:21 2022 Page 1  
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Scale = 1:13.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	-0.00	4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.00	4	>999		
	Code IRC2018/TPI2014						Weight: 7 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

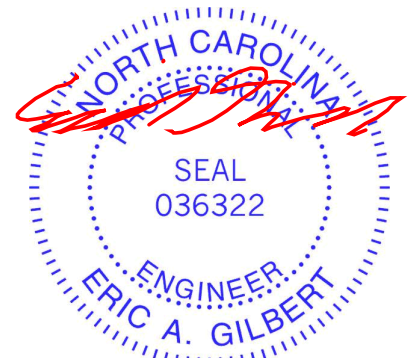
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=Mechanical, 3=Mechanical  
Max Horz 4=49(LC 8)  
Max Uplift 2=30(LC 8), 3=1(LC 8)  
Max Grav 4=68(LC 1), 2=52(LC 13), 3=33(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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, 3.
- 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.



August 1, 2022

**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 systems, see

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601  
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

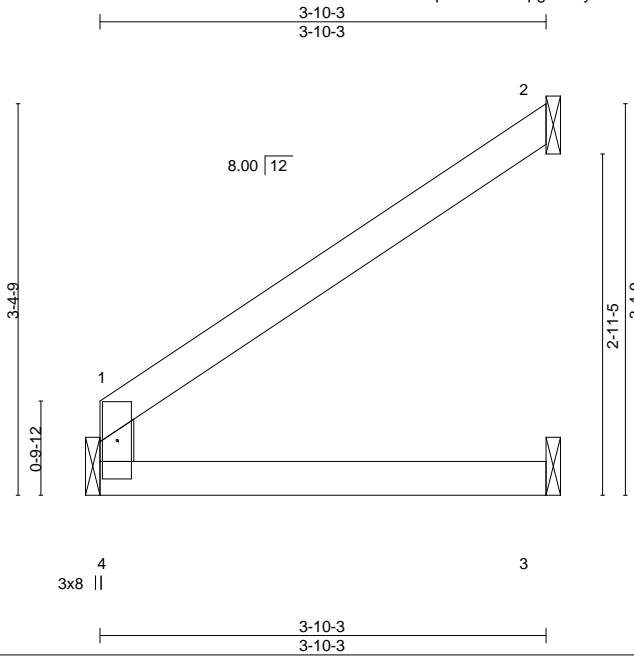
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job 26815	Truss J7	Truss Type Jack-Open	Qty 1	Ply 1	Whittenton Bldrs/Register 153381668
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:22 2022 Page 1  
ID:m3JJ6pNkJbuT4FrgLho0yzifBs-cgs07LmYlQq1PTT4cWiZMGm1xDARnUnNU5?lI5ytEzp



Scale = 1:19.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01	3-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.02	3-4	>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 IRC2018/TPI2014	Matrix-MR	Wind(LL) 0.01	3-4	>999	240	Weight: 13 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

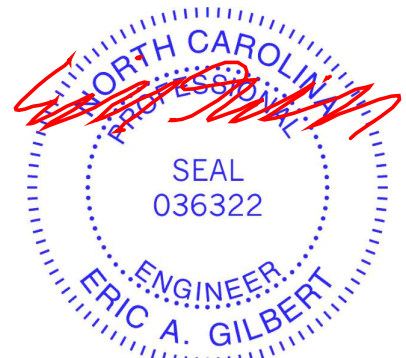
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=Mechanical, 3=Mechanical  
Max Horz 4=88(LC 8)  
Max Uplift 2=55(LC 8)  
Max Grav 4=146(LC 1), 2=107(LC 13), 3=70(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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.
- 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.



August 1, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

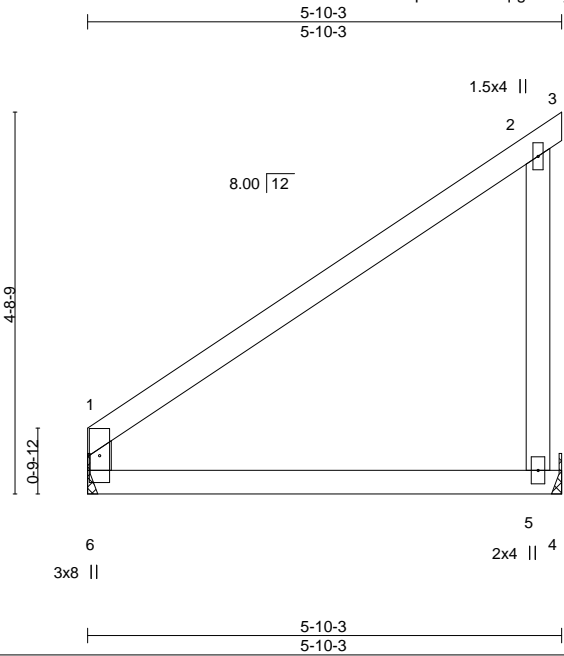


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	J8	Jack-Open	1	1	I53381669
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:22 2022 Page 1  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-cgs07LmYIQq1PTT4cWIZMGmzED7RnUsNU5?II5ytEzp



Scale = 1:28.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.04 5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.09 5-6	>705	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.04 5-6	>999	240	Weight: 26 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

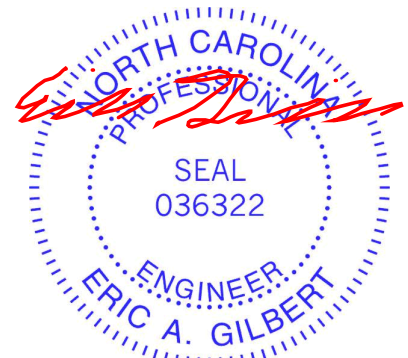
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 6=Mechanical, 5=Mechanical  
 Max Horz 6=128(LC 8)  
 Max Uplift 5=70(LC 8)  
 Max Grav 6=216(LC 1), 5=242(LC 13)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 5.
- 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.
- 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.



August 1, 2022

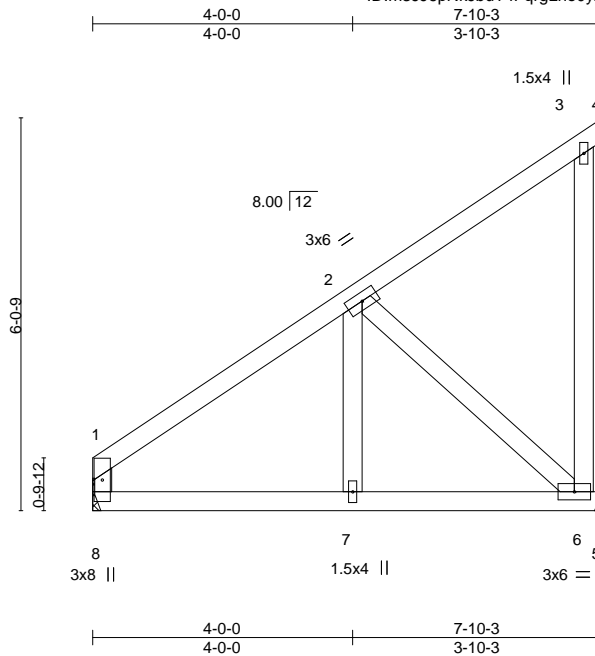
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 26815	Truss J9	Truss Type Jack-Open	Qty 1	Ply 1	Whittenton Bldrs/Register 153381670
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:23 2022 Page 1  
ID:m3JJ6pNkJbuT4FrgLho0yzifBs-4tQOKhnAWkyu1c2HAEDovUJBydWgWw5XilkrqYytEzo



Scale = 1:35.5

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 0.26	Vert(LL)	-0.01 6-7	>999	360	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00 7-8	>999	240		
								Weight: 45 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

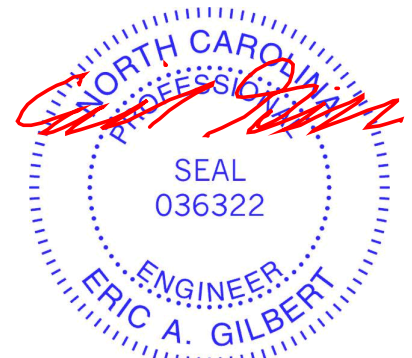
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 8=Mechanical, 6=Mechanical  
 Max Horz 8=168(LC 8)  
 Max Uplift 6=89(LC 8)  
 Max Grav 8=296(LC 1), 6=325(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-306/0  
 WEBS 2-6=-290/99

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 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) 6.
- 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.
- 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.



August 1, 2022

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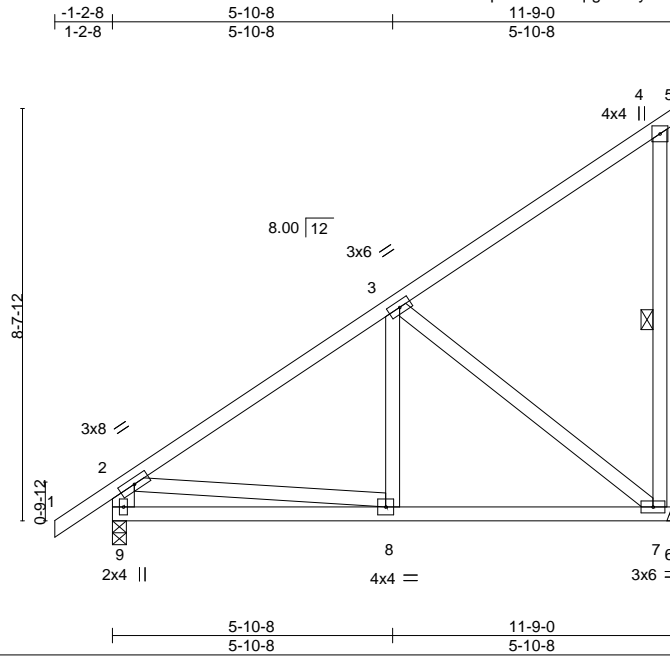
818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	J10	Jack-Closed	1	1	153381671

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:18 2022 Page 1  
 ID:m3JJ6pNkJbuT4FrgLho0yzifBs-jvdVH\_j1iBjwr9JNhdCQbHncn4raEoZT149KytEzt



Scale: 1/4"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.06	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 78 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-9: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 4-7

**REACTIONS.** (size) 9=0-3-8, 7=Mechanical  
 Max Horz 9=326(LC 5)  
 Max Uplift 9=67(LC 8), 7=101(LC 5)  
 Max Grav 9=542(LC 1), 7=495(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-489/104, 2-3=-518/40  
 BOT CHORD 8-9=-289/303, 7-8=-118/380  
 WEBS 3-7=-439/112

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 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) 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) 9 except (jt=lb) 7=101.
  - 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.
  - 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.



August 1, 2022

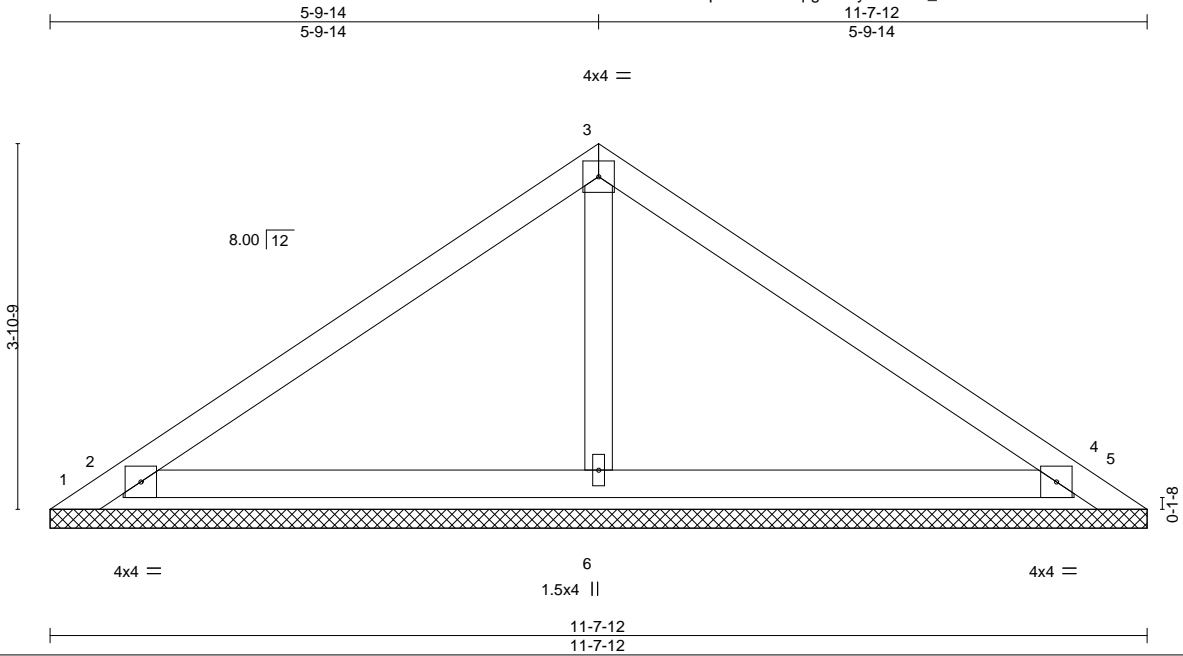
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	PB1	GABLE	10	1	I53381672
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:24 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-Y3\_mY1ooH14IemdTKxk1RhrO60rIFNKgxPUPM\_ytEzn



Scale = 1:24.5

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 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCLL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 11-7-12.  
 (lb) - Max Horz 1=83(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=340(LC 13), 5=307(LC 14), 2=169(LC 8), 4=169(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=600(LC 13), 4=582(LC 14), 6=332(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 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 4-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 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.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 1, 307 lb uplift at joint 5, 169 lb uplift at joint 2 and 169 lb uplift at joint 4.
  - 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.
  - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

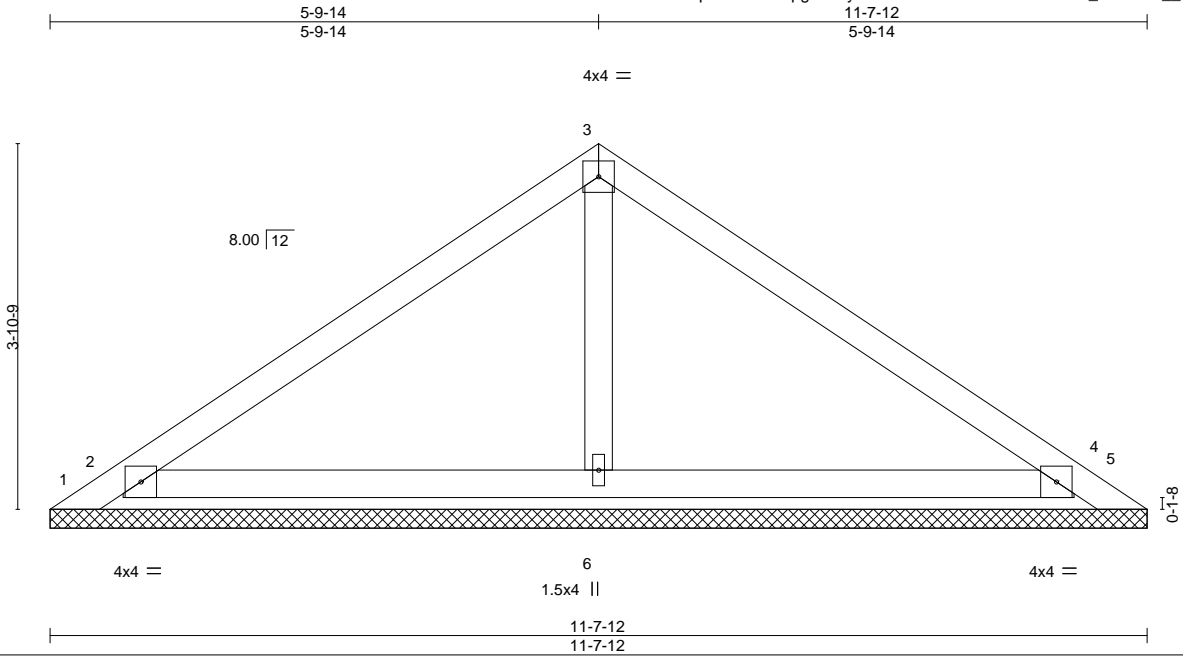


August 1, 2022

Job 26815	Truss PB2	Truss Type GABLE	Qty 2	Ply 1	Whittenton Bldrs/Register 153381673
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:25 2022 Page 1  
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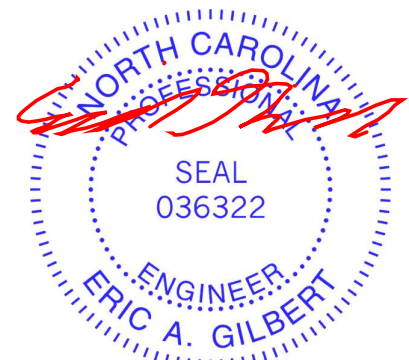
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 40 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 11-7-12.  
 (lb) - Max Horz 1=83(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=340(LC 13), 5=307(LC 14), 2=169(LC 8), 4=169(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=600(LC 13), 4=582(LC 14), 6=332(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 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BC DL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 4-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 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.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 1, 307 lb uplift at joint 5, 169 lb uplift at joint 2 and 169 lb uplift at joint 4.
  - 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.
  - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



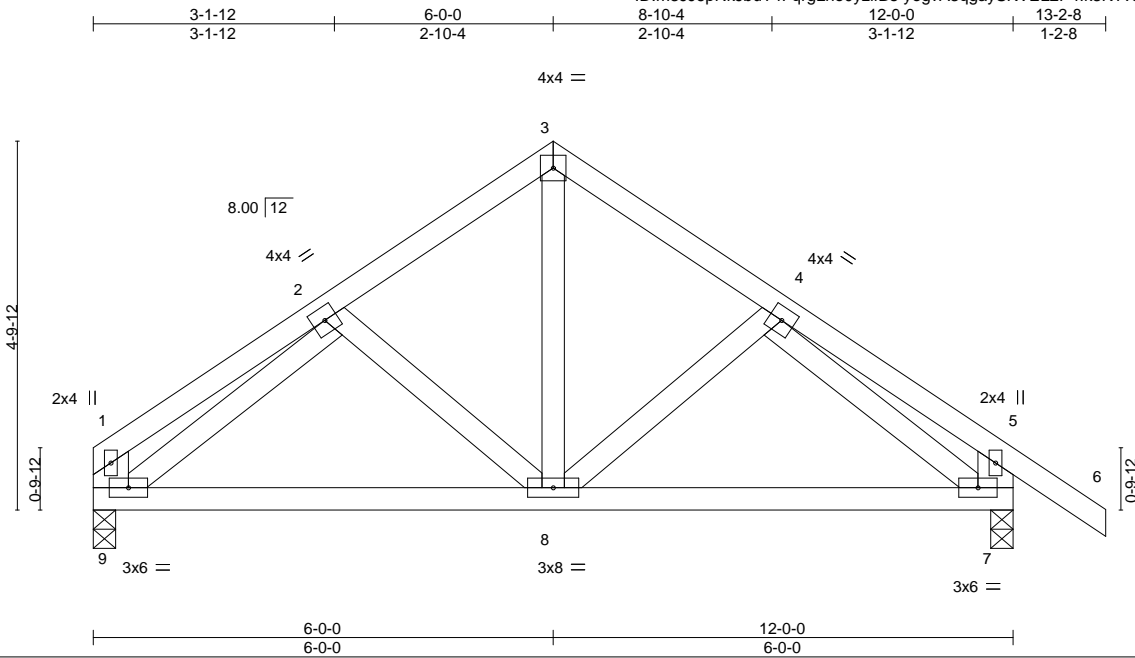
August 1, 2022



Job 26815	Truss T1	Truss Type COMMON	Qty 1	Ply 1	Whittenton Bldrs/Register 153381675
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:27 2022 Page 1  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-yegvA3qgaySKVEL2P4Ik3KTvoEtrSj56dNi3zJytEzk



Scale = 1:30.1

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 0.14	Vert(LL)	-0.01 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.03 8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00 8	>999	240		
								Weight: 71 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP 2400F 2.0E  
 WEBS 2x4 SP No.3 \*Except\*  
 1-9,5-7: 2x6 SP No.1

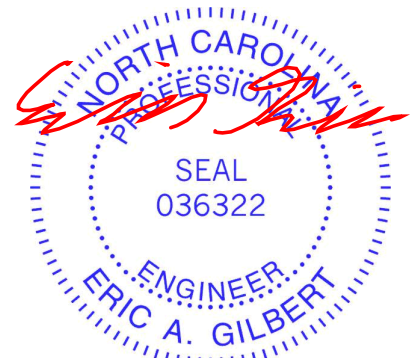
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 9=0-3-8, 7=0-3-8  
 Max Horz 9=-124(LC 6)  
 Max Uplift 9=-33(LC 8), 7=-87(LC 8)  
 Max Grav 9=456(LC 1), 7=553(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-422/74, 3-4=-421/74  
 BOT CHORD 8-9=0/416, 7-8=0/371  
 WEBS 3-8=-19/271, 2-9=-344/40, 4-7=-397/64

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 9 and 87 lb uplift at joint 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.
- 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.



August 1, 2022

**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 systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

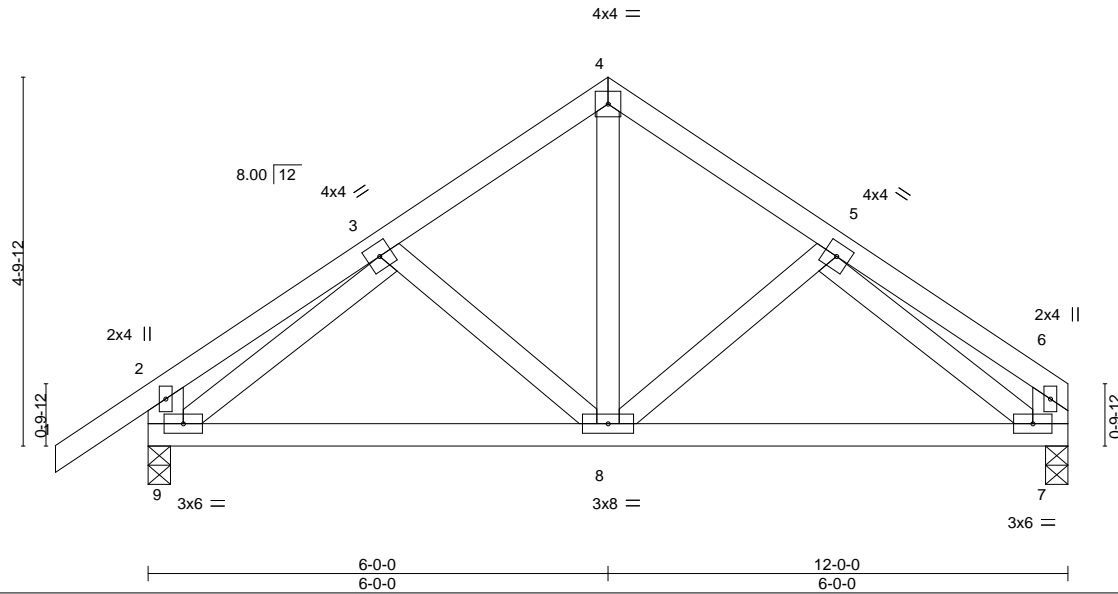
Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	T2	Common	3	1	153381676

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:39 2022 Page 1  
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Scale = 1:30.1



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 0.14	Vert(LL)	-0.01 8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.03 7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00 8	>999	240		
								Weight: 71 lb	FT = 20%

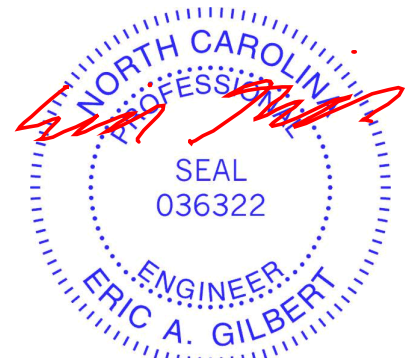
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP 2400F 2.0E  
 WEBS 2x4 SP No.3 \*Except\*  
 2-9,6-7: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 9=0-3-8, 7=0-3-8  
 Max Horz 9=124(LC 7)  
 Max Uplift 9=-87(LC 8), 7=-33(LC 8)  
 Max Grav 9=553(LC 1), 7=456(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-421/74, 4-5=-422/74  
 BOT CHORD 8-9=-13/389, 7-8=-10/385  
 WEBS 4-8=-19/271, 3-9=-397/64, 5-7=-344/40

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 9 and 33 lb uplift at joint 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.
  - 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.



August 1, 2022

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381677
26815	T3	Common	6	1		

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:41 2022 Page 1

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4x6 ||

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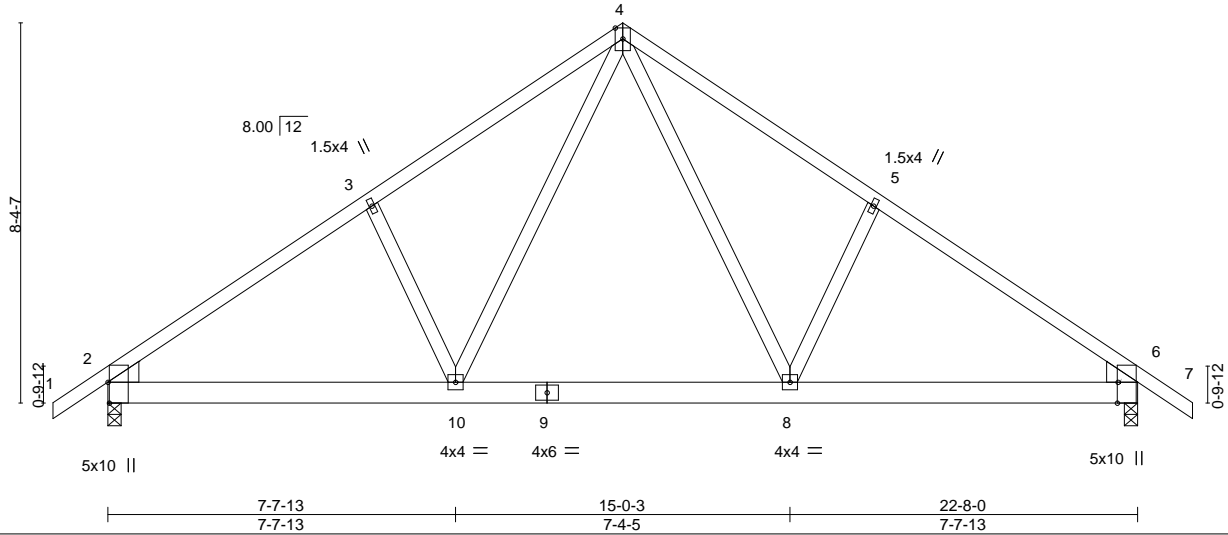


Plate Offsets (X, Y)--	[2:0-5-8,Edge], [6:0-5-8,Edge]
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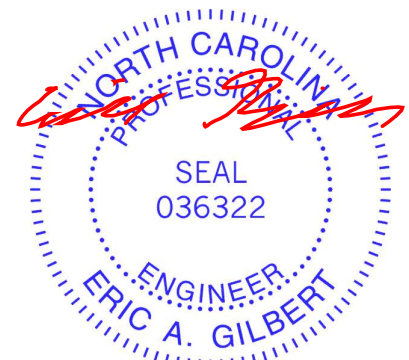
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.07 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.11 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.02 8-10 >999 240	Weight: 139 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x6 SP No.1 , Right: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=-187(LC 6)  
 Max Uplift 2=-111(LC 8), 6=-111(LC 8)  
 Max Grav 2=1000(LC 13), 6=1000(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1273/132, 3-4=-1173/194, 4-5=-1173/194, 5-6=-1273/132  
 BOT CHORD 2-10=0/1112, 8-10=0/756, 6-8=0/997  
 WEBS 4-8=-54/571, 5-8=-288/151, 4-10=-54/571, 3-10=-288/151

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCCL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 111 lb uplift at joint 6.
  - 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.
  - 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.



August 1, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

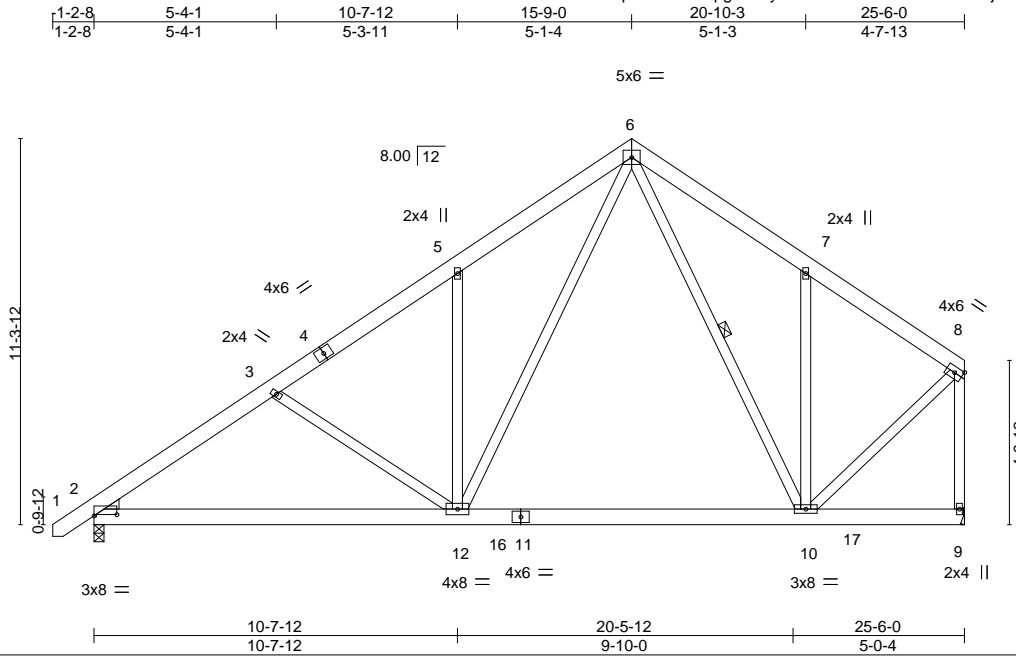


Job 26815	Truss T4	Truss Type Common	Qty 5	Ply 1	Whittenton Bldrs/Register 153381678
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:42 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-0X4aKB052ZLBoX?wnj3FAUbrRHyiTRFK4CrM?xytEzV



Scale = 1:67.5

Plate Offsets (X,Y)--	[2:0-8-0,0-0-7]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.14	10-12	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.20	10-12	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02	9	n/a
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS	Wind(LL)	0.02	12	>999
							240
							Weight: 215 lb
							FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-10
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 9=Mechanical  
 Max Horz 2=320(LC 7)  
 Max Uplift 2=-113(LC 8), 9=-80(LC 8)  
 Max Grav 2=1101(LC 13), 9=1086(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1474/163, 3-5=-1235/149, 5-6=-1270/278, 6-7=-860/250, 7-8=-810/129, 8-9=-1117/96  
 BOT CHORD 2-12=-117/1317, 10-12=-30/684  
 WEBS 3-12=-282/136, 5-12=-339/173, 6-12=-127/949, 7-10=-318/155, 8-10=0/892

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2 and 80 lb uplift at joint 9.
  - 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.
  - 8) 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.

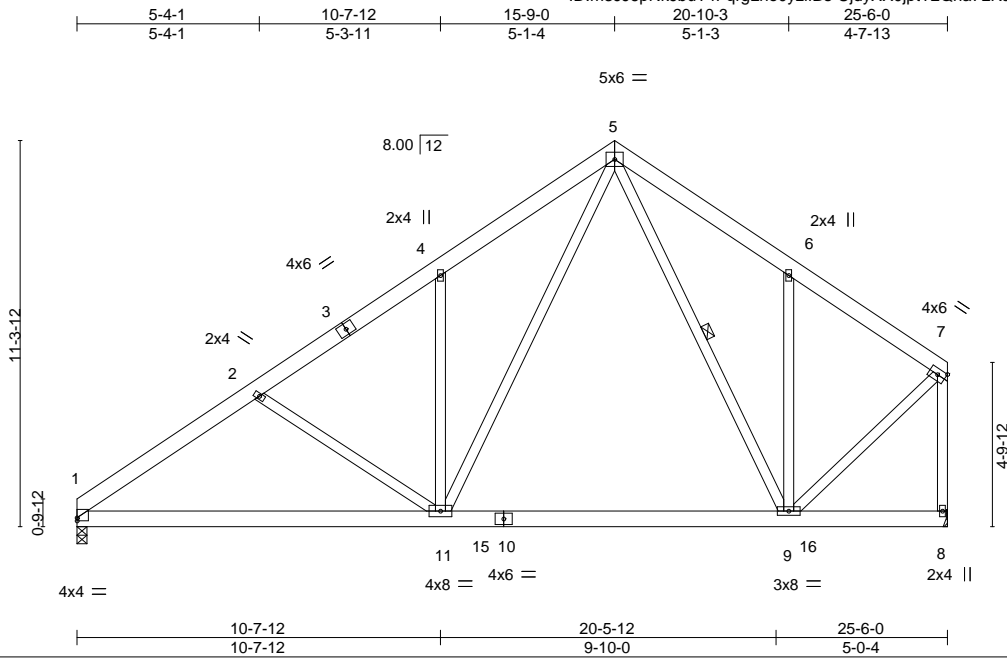


August 1, 2022

Job 26815	Truss T5	Truss Type COMMON	Qty 1	Ply 1	Whittenton Bldrs/Register 153381679
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:43 2022 Page 1  
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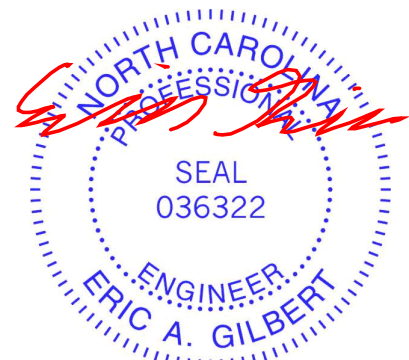
Plate Offsets (X,Y)--	[1:0-0,0,0-1-1]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.14 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.20 9-11 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.02 11 >999 240	Weight: 211 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-9

**REACTIONS.** (size) 1=0-3-8, 8=Mechanical  
 Max Horz 1=309(LC 7)  
 Max Uplift 1=-76(LC 8), 8=-80(LC 8)  
 Max Grav 1=1042(LC 13), 8=1087(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1480/167, 2-4=-1239/151, 4-5=-1273/280, 5-6=-861/250, 6-7=-810/130, 7-8=-1118/97  
 BOT CHORD 1-11=-118/1325, 9-11=-30/686  
 WEBS 2-11=-288/140, 4-11=-337/172, 5-11=-129/952, 6-9=-318/155, 7-9=0/892

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 1 and 80 lb uplift at joint 8.
  - 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.
  - 8) 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.



August 1, 2022

Job 26815	Truss T6	Truss Type Piggyback Base	Qty 1	Ply 1	Whittenton Bldrs/Register 153381680
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C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:44 2022 Page 1

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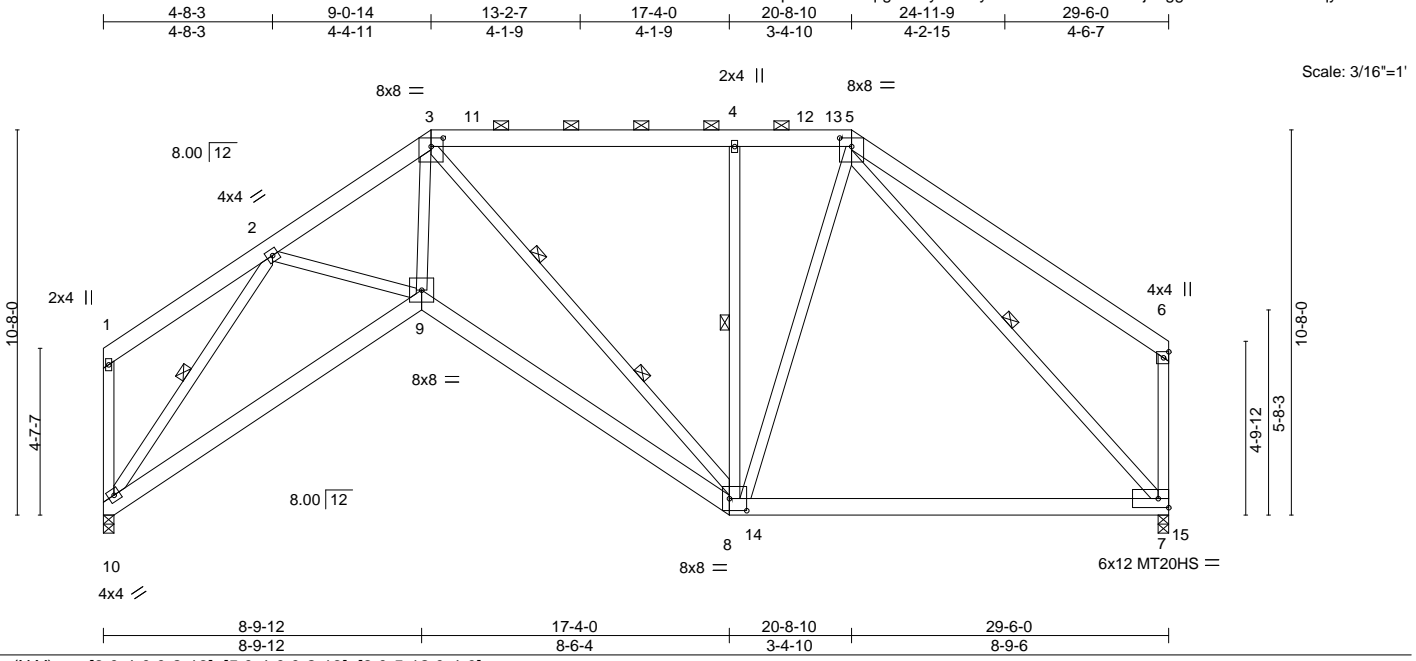


Plate Offsets (X,Y)-- [3:0-4-0,0-2-13], [5:0-4-0,0-2-13], [8:0-5-12,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.36	7-8	>980	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.54	7-8	>655	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.22	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.08	9	>999		
								Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 1-10,6-7: 2x4 SP No.2	WEBS 1 Row at midpt 2-10, 4-8, 5-7 2 Rows at 1/3 pts 3-8

**REACTIONS.** (size) 10=0-3-8, 7=0-3-8  
 Max Horz 10=293(LC 7)  
 Max Uplift 10=90(LC 8), 7=90(LC 8)  
 Max Grav 10=1168(LC 1), 7=1317(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2208/246, 3-4=-909/207, 4-5=-913/208, 5-6=-326/197, 6-7=-368/166  
 BOT CHORD 9-10=-324/1492, 8-9=-297/2157, 7-8=-65/767  
 WEBS 2-10=-1898/136, 2-9=0/730, 3-9=-216/1878, 3-8=-1309/235, 4-8=-441/128,  
 5-7=-1030/66, 5-8=-30/626

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates 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) Bearing at joint(s) 10 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 capable of withstanding 90 lb uplift at joint 10 and 90 lb uplift at joint 7.
  - 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.
  - 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.



August 1, 2022

Job 26815	Truss T7	Truss Type Piggyback Base	Qty 9	Ply 1	Whittenton Bldrs/Register 153381681
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C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:45 2022 Page 1

ID:m3JJ6pNkJbuT4FrgLho0yzifBs-R6ljyD2zLUjmg?jVTscoy7DrWUuXggtmmA40cGytEzS

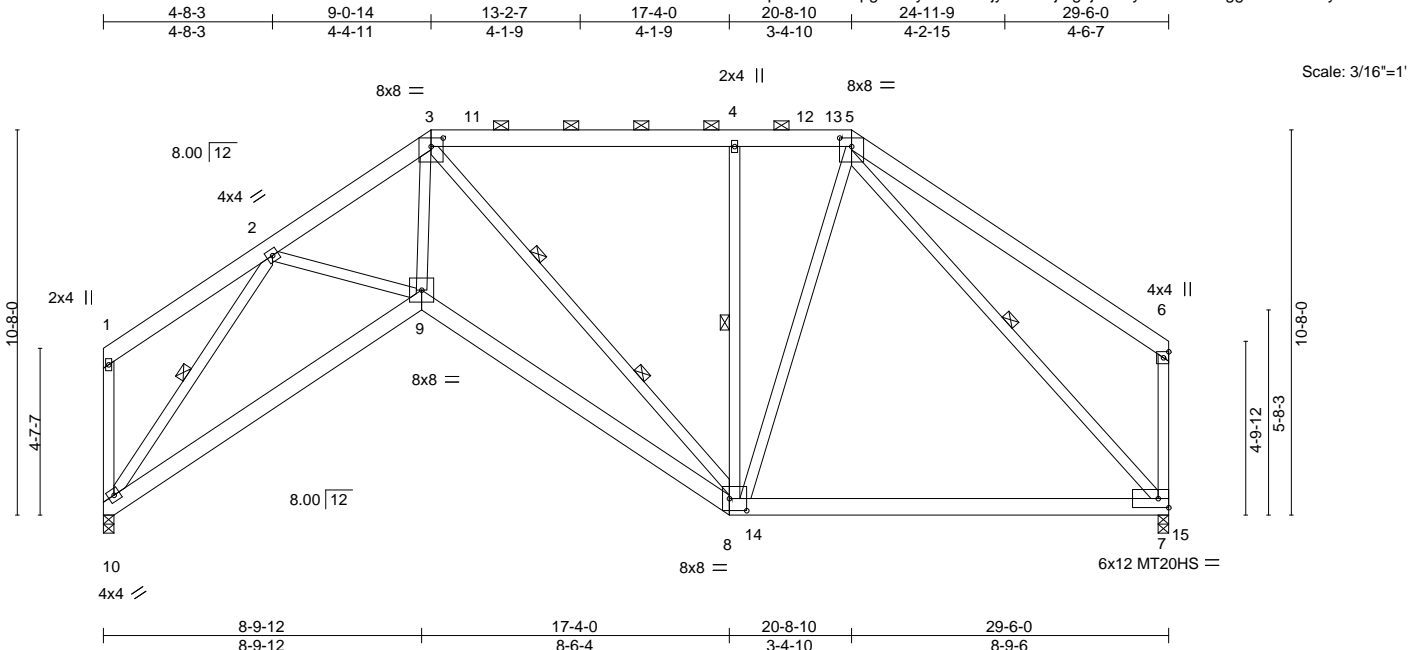


Plate Offsets (X, Y)--	[3:0-4-0,0-2-13], [5:0-4-0,0-2-13], [8:0-5-12,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.36	7-8	>980	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.54	7-8	>655	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.22	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.08	9	>999		
								Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 1-10,6-7: 2x4 SP No.2	WEBS 1 Row at midpt 2-10, 4-8, 5-7 2 Rows at 1/3 pts 3-8

REACTIONS.	(size)
Max Horz	10=0-3-8, 7=0-3-8
Max Uplift	10=90(LC 8), 7=90(LC 8)
Max Grav	10=1168(LC 1), 7=1315(LC 14)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2203/232, 3-4=-907/207, 4-5=-911/208, 5-6=-325/197, 6-7=-366/166
BOT CHORD	9-10=-316/1487, 8-9=-282/2152, 7-8=-62/766
WEBS	2-10=-1893/126, 2-9=0/730, 3-9=-206/1872, 3-8=-1304/225, 4-8=-441/119, 5-7=-1029/61, 5-8=-21/626

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates 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) Bearing at joint(s) 10 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 capable of withstanding 90 lb uplift at joint 10 and 90 lb uplift at joint 7.
  - 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.
  - 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.

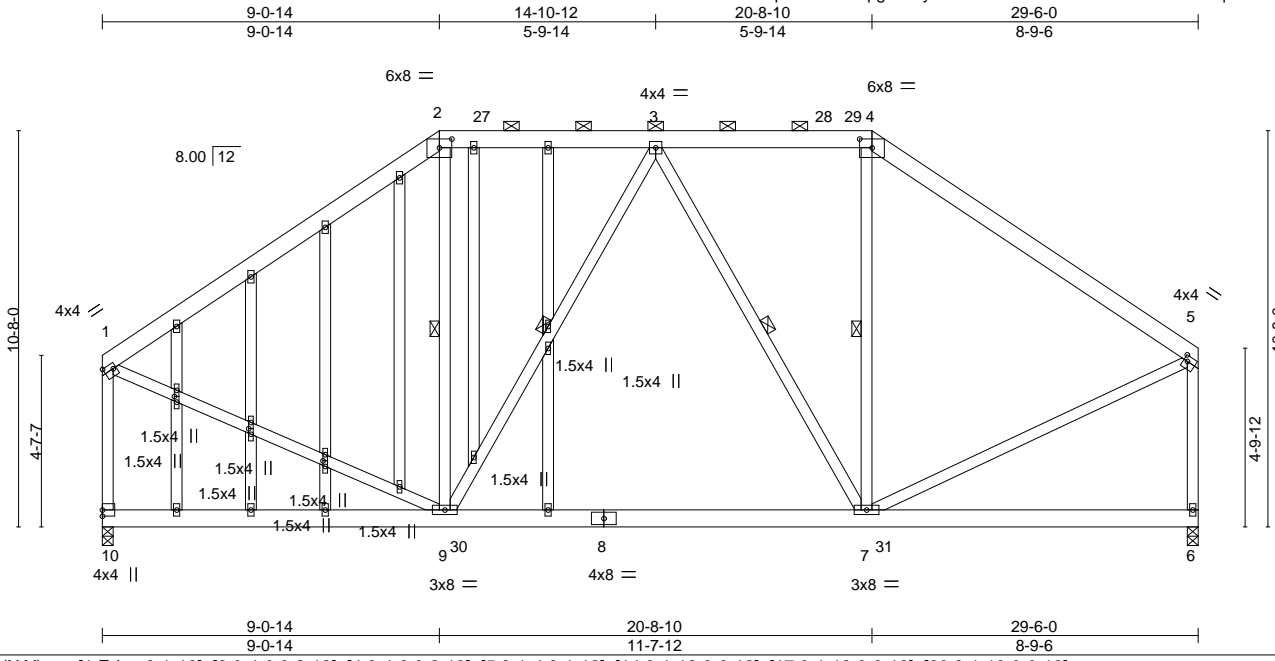


August 1, 2022

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381682
26815	T8	GABLE II	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:46 2022 Page 1  
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Scale = 1:62.0

Plate Offsets (X, Y)--	[1:Edge,0-1-12], [2:0-4-0,0-2-13], [4:0-4-0,0-2-13], [5:0-1-4,0-1-12], [14:0-1-13,0-0-12], [17:0-1-13,0-0-12], [20:0-1-13,0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.22 7-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.36	Vert(CT) -0.30 7-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.02 7-9 >999 240	Weight: 317 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-9, 3-9, 3-7, 4-7
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=289(LC 7)  
 Max Uplift 10=90(LC 8), 6=90(LC 8)  
 Max Grav 10=1212(LC 13), 6=1213(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1141/166, 2-3=-882/205, 3-4=-867/204, 4-5=-1121/167, 1-10=-1164/133, 5-6=-1170/132  
 BOT CHORD 9-10=-260/259, 7-9=-90/976  
 WEBS 3-7=-272/99, 1-9=-5/927, 5-7=-11/930

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 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 90 lb uplift at joint 10 and 90 lb uplift at joint 6.
  - 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.
  - 11) 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.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



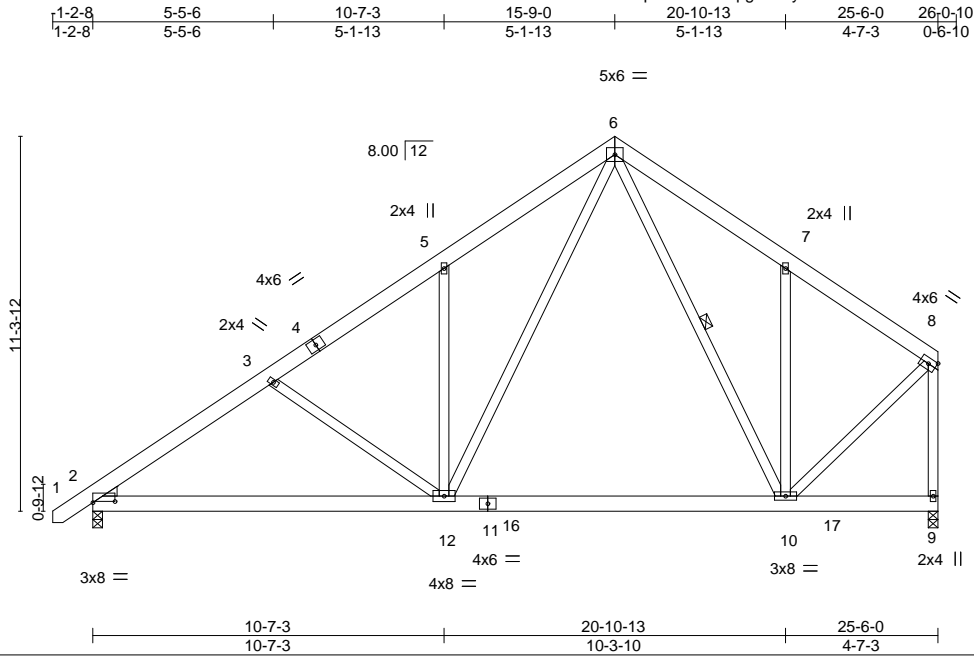
August 1, 2022



Job 26815	Truss T9	Truss Type FAN	Qty 2	Ply 1	Whittenton Bldrs/Register 153381683
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:48 2022 Page 1  
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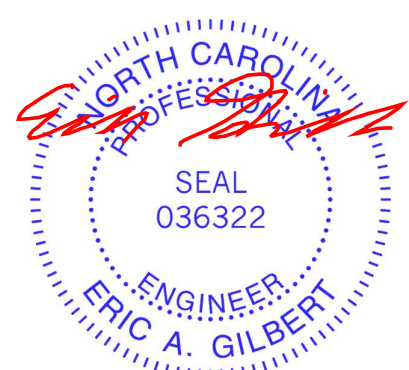
Plate Offsets (X,Y)--	[2:0-8-0,0-0-7]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.15 10-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.21 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.02 12 >999 240	Weight: 215 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-10
WEDGE	
Left: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8  
 Max Horz 2=320(LC 7)  
 Max Uplift 2=-113(LC 8), 9=-80(LC 8)  
 Max Grav 2=1102(LC 13), 9=1088(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1473/162, 3-5=-1239/149, 5-6=-1275/278, 6-7=-861/249, 7-8=-809/129, 8-9=-1122/95  
 BOT CHORD 2-12=-115/1315, 10-12=-31/685  
 WEBS 5-12=-333/170, 7-10=-318/155, 3-12=-277/135, 6-12=-126/950, 8-10=0/896

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2 and 80 lb uplift at joint 9.
  - 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.
  - 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.

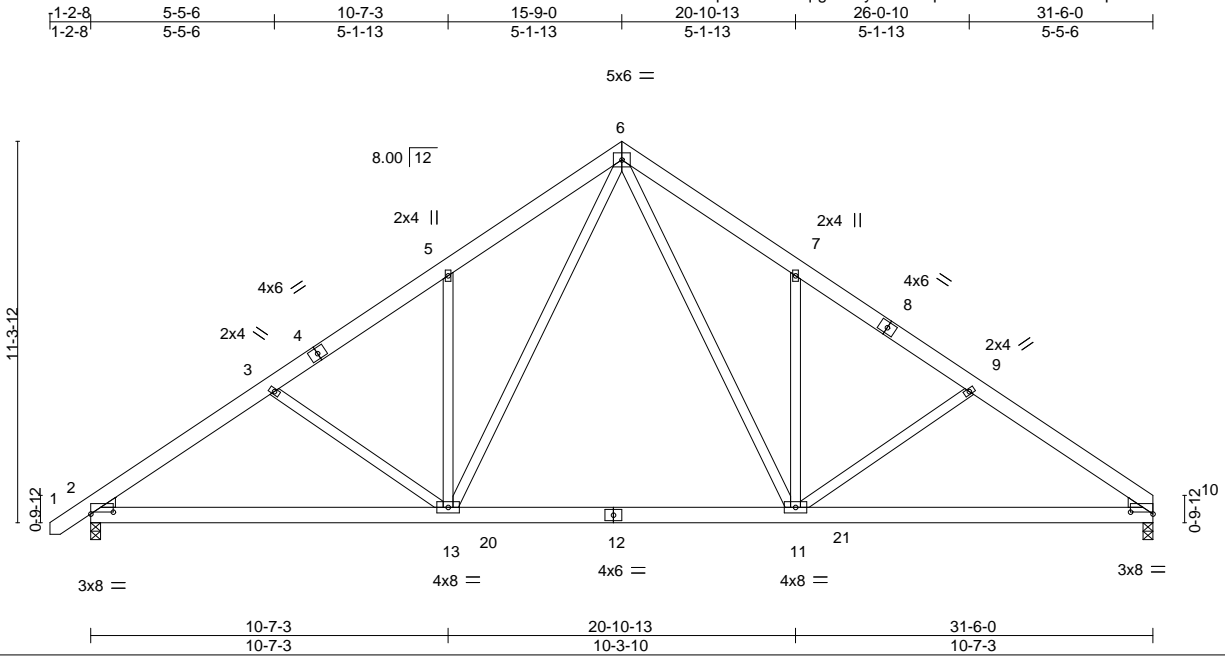


August 1, 2022

Job 26815	Truss T10	Truss Type FAN	Qty 1	Ply 1	Whittenton Bldrs/Register 153381684
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:28 2022 Page 1  
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Scale = 1:68.3

Plate Offsets (X, Y)--	[2:0-8-0,0-0-11], [10:0-8-0,0-0-11]
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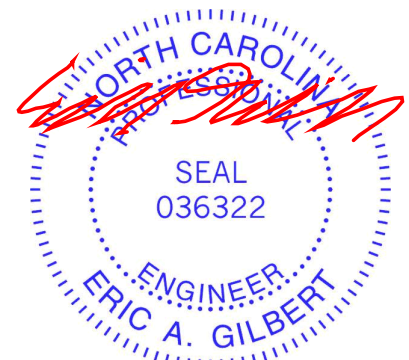
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.18 11-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT)	-0.26 11-13	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.36	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.05 11-13	>999	240		
	Code IRC2018/TPI2014						Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=255(LC 7)  
 Max Uplift 2=-134(LC 8), 10=-97(LC 8)  
 Max Grav 2=1356(LC 13), 10=1296(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1898/198, 3-5=-1671/187, 5-6=-1710/316, 6-7=-1712/317, 7-9=-1674/188,  
 9-10=-1904/201  
 BOT CHORD 2-13=-90/1669, 11-13=0/1058, 10-11=-94/1494  
 WEBS 5-13=-339/170, 7-11=-336/169, 3-13=-264/132, 6-13=-132/944, 6-11=-134/947,  
 9-11=-270/135

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 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 134 lb uplift at joint 2 and 97 lb uplift at joint 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.
  - 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.



August 1, 2022



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381685
26815	T11	Roof Special	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:30 2022 Page 1  
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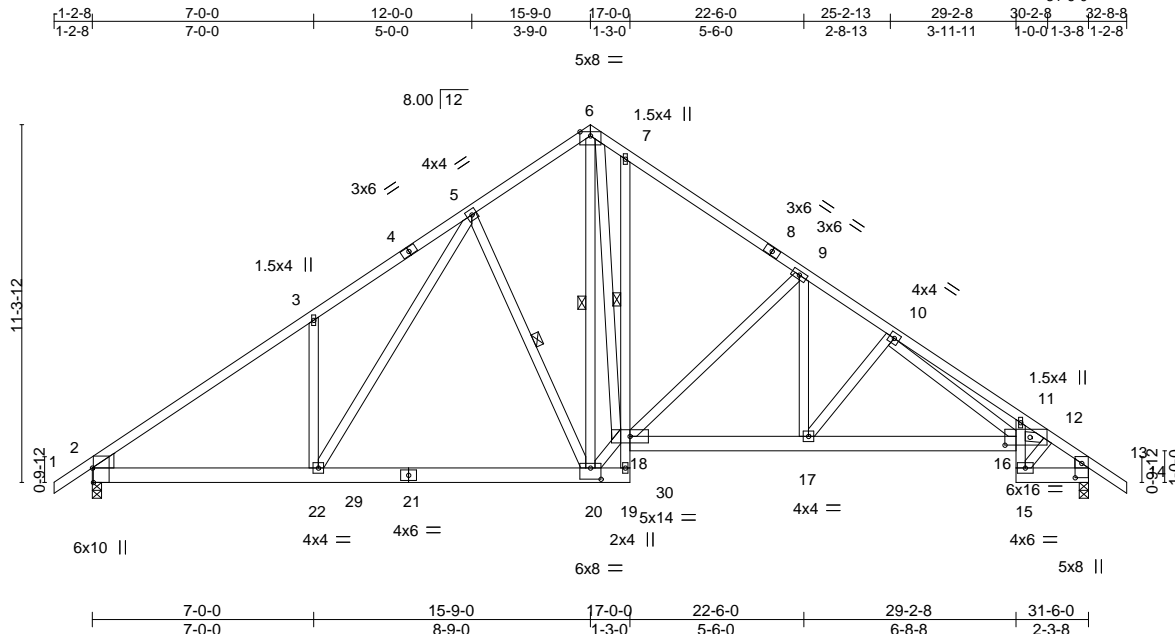


Plate Offsets (X,Y)--	[2:0-5-8,Edge], [13:0-5-7,0-2-8], [16:0-9-8,0-3-0], [20:0-4-0,0-4-4]
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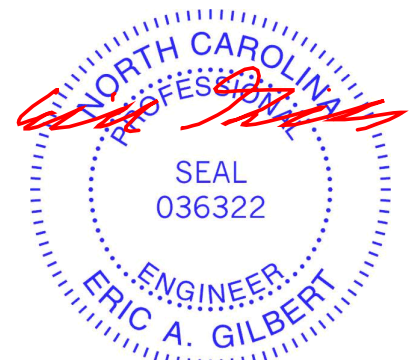
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.11 20-22 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.20 20-22 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 13 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.07 16-17 >999 240	Weight: 255 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1 *Except* 7-19: 2x4 SP No.3, 11-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 7-18
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 5-20
WEDGE Left: 2x6 SP No.1 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 13=0-3-8  
 Max Horz 2=262(LC 7)  
 Max Uplift 2=-139(LC 8), 13=-139(LC 8)  
 Max Grav 2=1373(LC 13), 13=1333(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1861/163, 3-5=-1875/304, 5-6=-1241/243, 6-7=-1319/290, 7-9=-1417/215,  
 9-10=-1895/193, 10-11=-3086/238, 11-12=-2998/171, 12-13=-1584/120  
 BOT CHORD 2-22=-6/1630, 20-22=0/1287, 18-19=-385/0, 17-18=0/1551, 16-17=-25/1759,  
 15-16=0/945, 13-15=-25/1080  
 WEBS 3-22=-354/194, 6-20=-142/352, 18-20=0/1266, 6-18=-119/1124, 9-18=-662/111,  
 9-17=0/508, 10-17=-353/87, 10-16=-56/1050, 12-16=-64/2201, 12-15=-1145/0,  
 5-22=-126/671, 5-20=-526/167

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2 and 139 lb uplift at joint 13.
  - 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.
  - 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.



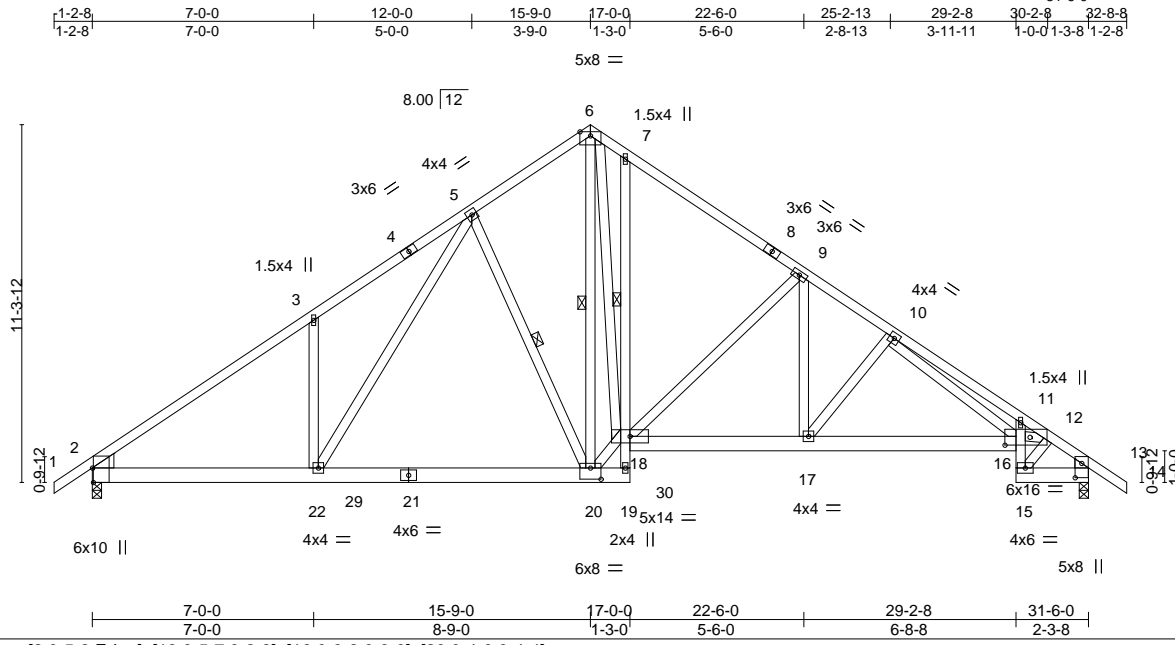
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 systems, 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

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381686
26815	T12	Roof Special	1	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:31 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-rPvQ0QtBeByL\_rfpevMgEAeaNr4NOKmiY?gG64ytEzg



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.11 20-22 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.20 20-22 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 13 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.07 16-17 >999 240	Weight: 255 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied. Except:
7-19: 2x4 SP No.3, 11-15: 2x4 SP No.2	1 Row at midpt 7-18
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 5-20
WEDGE	
Left: 2x6 SP No.1 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 13=0-3-8  
 Max Horz 2=262(LC 7)  
 Max Uplift 2=-139(LC 8), 13=-139(LC 8)  
 Max Grav 2=1373(LC 13), 13=1333(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1861/163, 3-5=-1875/304, 5-6=-1241/243, 6-7=-1319/290, 7-9=-1417/215,  
 9-10=-1895/193, 10-11=-3086/238, 11-12=-2998/171, 12-13=-1584/120  
 BOT CHORD 2-22=-6/1630, 20-22=0/1287, 18-19=-385/0, 17-18=0/1551, 16-17=-25/1759,  
 15-16=0/945, 13-15=-25/1080  
 WEBS 3-22=-354/194, 6-20=-142/352, 18-20=0/1266, 6-18=-119/1124, 9-18=-662/111,  
 9-17=0/508, 10-17=-353/87, 10-16=-56/1050, 12-16=-64/2201, 12-15=-1145/0,  
 5-22=-126/671, 5-20=-526/167

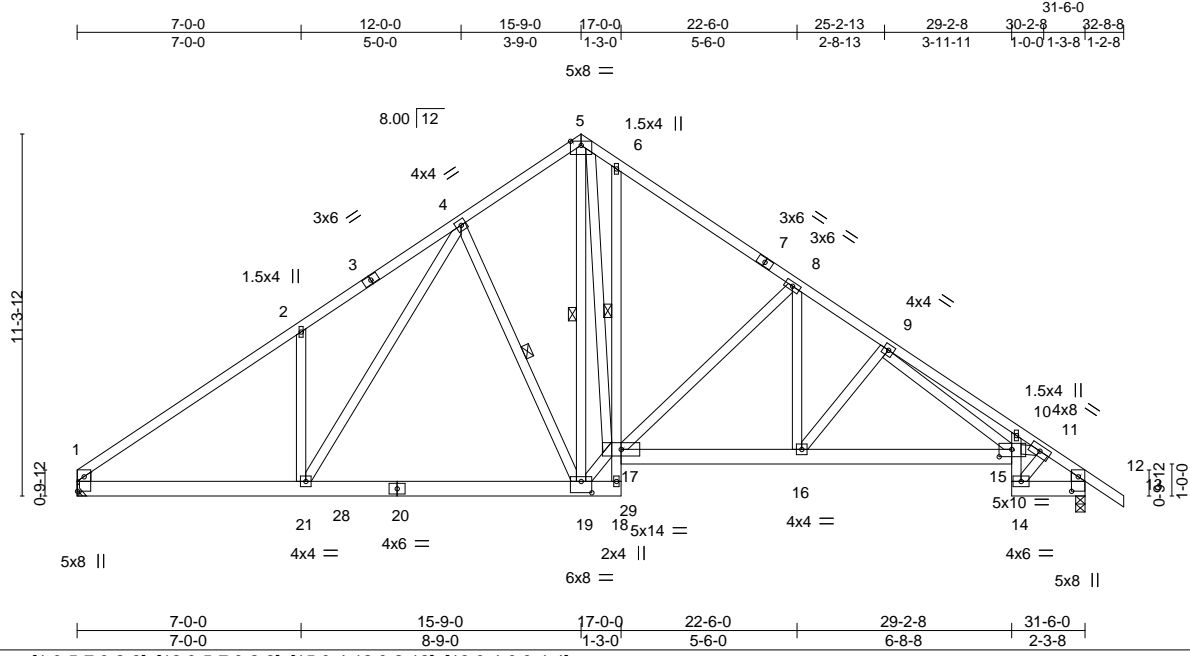
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2 and 139 lb uplift at joint 13.
  - 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.
  - 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.



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381687
26815	T13	ROOF SPECIAL	3	1		

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:33 2022 Page 1  
 ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-no1AR6vRAoCTD9pCmKP8Jbjw?fmqsEF?0J9NBytEze



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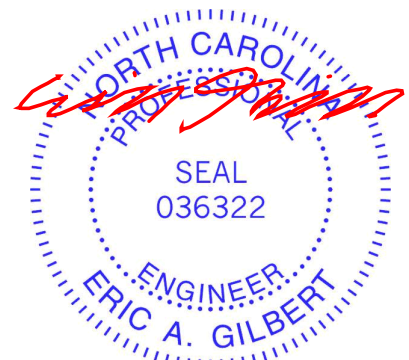
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.11 19-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.20 19-21 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.10 12 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.07 15-16 >999 240	Weight: 252 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1 *Except* 6-18: 2x4 SP No.3, 10-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 6-17
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-19, 4-19
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

**REACTIONS.** (size) 1=Mechanical, 12=0-3-8  
 Max Horz 1=-256(LC 6)  
 Max Uplift 1=-97(LC 8), 12=-139(LC 8)  
 Max Grav 1=1305(LC 13), 12=1334(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1870/169, 2-4=-1885/310, 4-5=-1242/244, 5-6=-1320/291, 6-8=-1420/217,  
 8-9=-1898/195, 9-10=-3090/240, 10-11=-3001/173, 11-12=-1585/122  
 BOT CHORD 1-21=-11/1639, 19-21=0/1290, 17-18=-384/0, 16-17=0/1554, 15-16=-26/1761,  
 14-15=0/946, 12-14=-26/1081  
 WEBS 2-21=-356/195, 5-19=-141/352, 17-19=0/1267, 5-17=-120/1127, 8-17=-662/111,  
 8-16=0/508, 9-16=-353/87, 9-15=-56/1051, 11-15=-65/2203, 11-14=-1147/0,  
 4-21=-132/681, 4-19=-530/169

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 1 and 139 lb uplift at joint 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.
  - 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.



August 1, 2022

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
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Job 26815	Truss T14	Truss Type FAN	Qty 1	Ply 1	Whittenton Bldrs/Register 153381688
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:34 2022 Page 1



5x6 =

Scale = 1:68.3

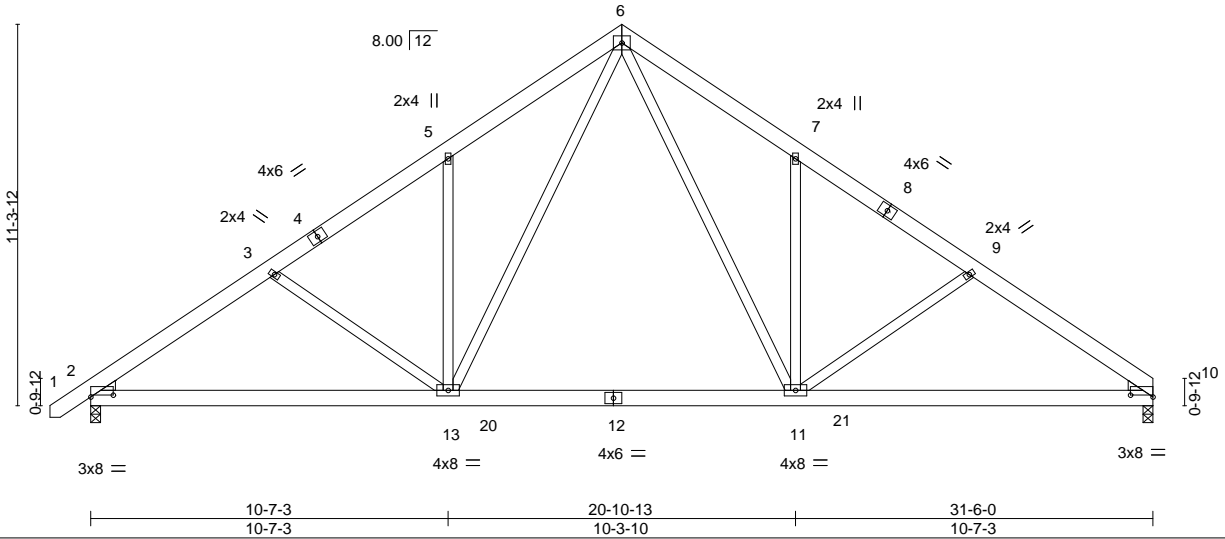


Plate Offsets (X, Y)--	[2:0-8-0,0-0-11], [10:0-8-0,0-0-11]
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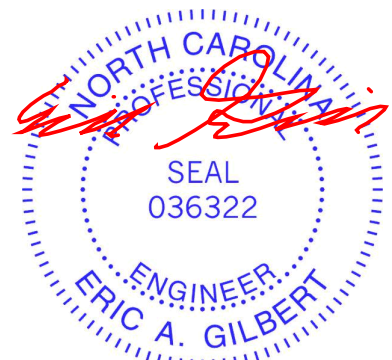
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.18	11-13	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT)	-0.26	11-13	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.36	Horz(CT)	0.04	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.05	11-13	>999		
	Code IRC2018/TPI2014						Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=255(LC 7)  
 Max Uplift 2=-134(LC 8), 10=-97(LC 8)  
 Max Grav 2=1356(LC 13), 10=1296(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1898/198, 3-5=-1671/187, 5-6=-1710/316, 6-7=-1712/317, 7-9=-1674/188, 9-10=-1904/201  
 BOT CHORD 2-13=-90/1669, 11-13=0/1058, 10-11=-94/1494  
 WEBS 5-13=-339/170, 7-11=-336/169, 3-13=-264/132, 6-13=-132/944, 6-11=-134/947, 9-11=-270/135

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 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 134 lb uplift at joint 2 and 97 lb uplift at joint 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.
  - 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.



August 1, 2022

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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381689
26815	T15	Common	3	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:35 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLhoOyzifBs-jB8xsowihQSBTSyatRcO0oGPSZzKGNITcfUFrytEzc



4x4 =

Scale = 1:50.2

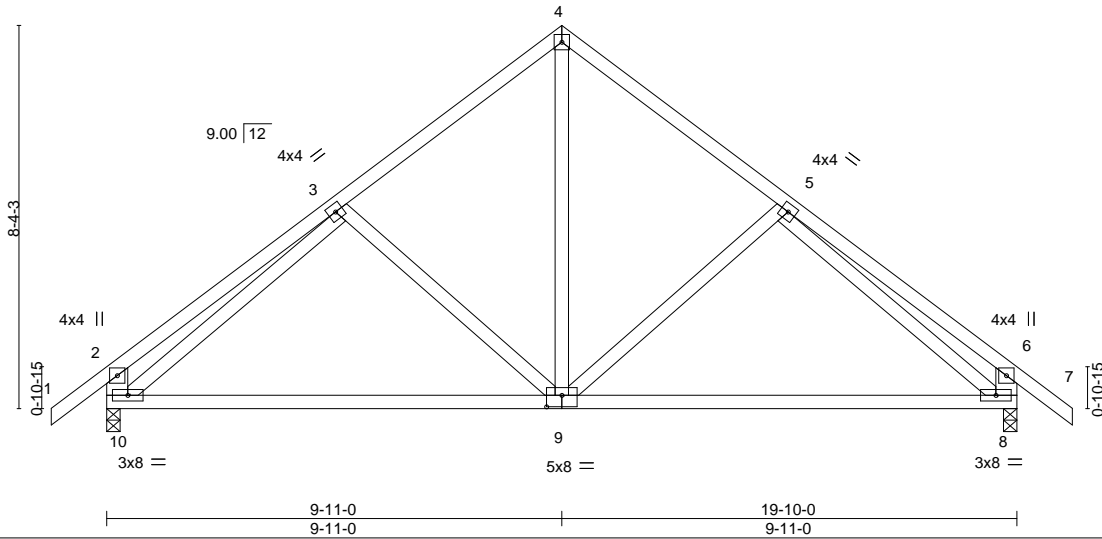


Plate Offsets (X,Y)--	[9:0-4-0,0-3-0]
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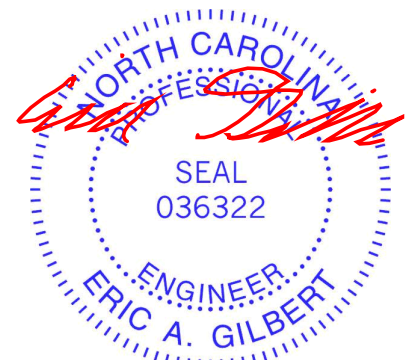
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.11 9-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.21 9-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.01 9 >999 240	Weight: 122 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 2-10,6-8: 2x6 SP No.1	

**REACTIONS.** (size) 10=0-3-8, 8=0-3-8  
 Max Horz 10=-220(LC 6)  
 Max Uplift 10=-109(LC 8), 8=-109(LC 8)  
 Max Grav 10=861(LC 1), 8=861(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-396/55, 3-4=-708/134, 4-5=-708/134, 5-6=-396/55, 2-10=-412/114, 6-8=-412/114  
 BOT CHORD 9-10=0/689, 8-9=0/634  
 WEBS 4-9=-54/499, 3-10=-537/72, 5-8=-537/72

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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 109 lb uplift at joint 10 and 109 lb uplift at joint 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.
  - 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.



August 1, 2022

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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381690
26815	T16	Common	2	1	Job Reference (optional)	

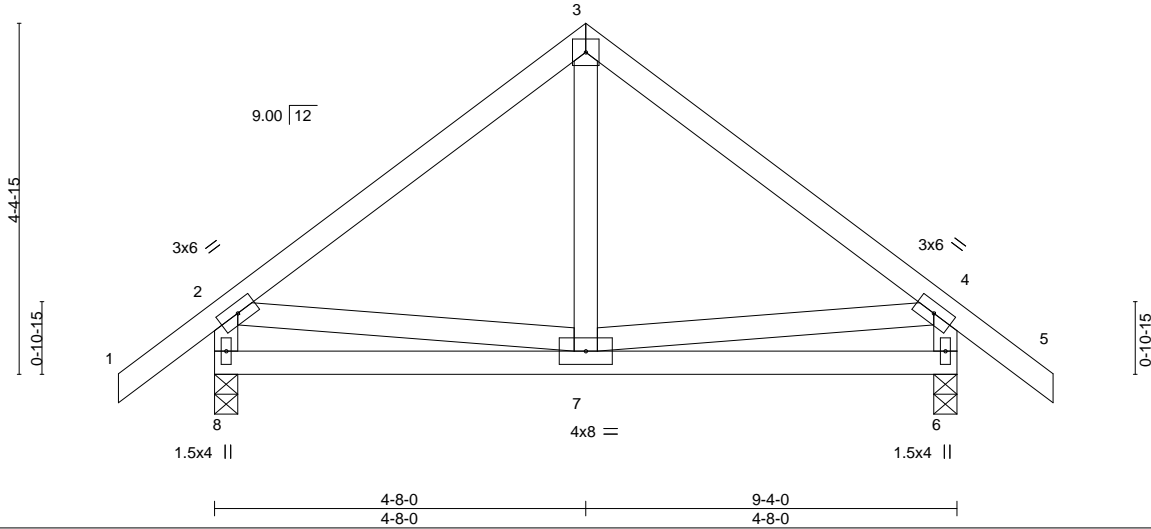
C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:35 2022 Page 1  
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Scale = 1:29.0



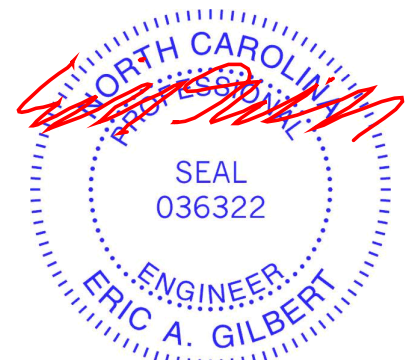
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.01 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00 6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.00 7	>999	240	Weight: 56 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 8=0-3-8, 6=0-3-8  
 Max Horz 8=126(LC 7)  
 Max Uplift 8=74(LC 8), 6=74(LC 8)  
 Max Grav 8=443(LC 1), 6=443(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-351/50, 3-4=-351/50, 2-8=-399/99, 4-6=-399/99

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 8 and 74 lb uplift at joint 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.
  - 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.

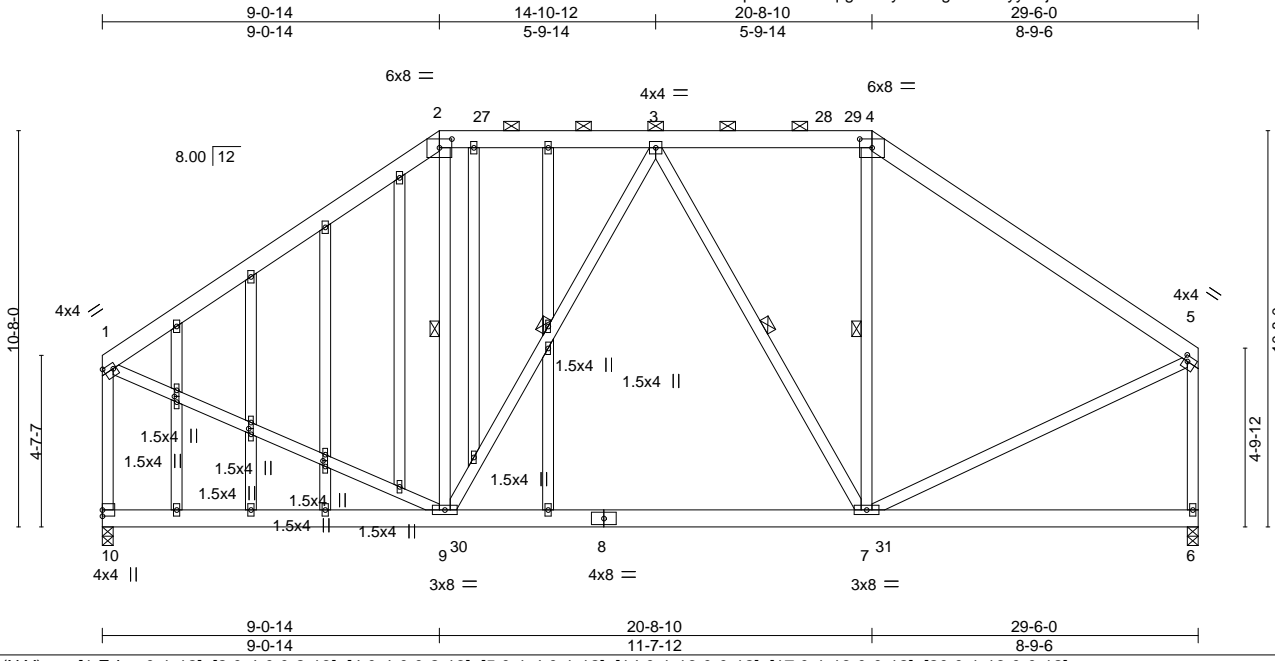


August 1, 2022

Job 26815	Truss T17	Truss Type GABLE II	Qty 1	Ply 1	Whittenton Bldrs/Register 153381691
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:37 2022 Page 1  
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Scale = 1:62.0

Plate Offsets (X, Y)--	[1:Edge,0-1-12], [2:0-4-0,0-2-13], [4:0-4-0,0-2-13], [5:0-1-4,0-1-12], [14:0-1-13,0-0-12], [17:0-1-13,0-0-12], [20:0-1-13,0-0-12]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.22	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.30	7-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS	Wind(LL)	0.02	7-9	>999		
								Weight: 317 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-9, 3-9, 3-7, 4-7
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=289(LC 7)  
 Max Uplift 10=90(LC 8), 6=90(LC 8)  
 Max Grav 10=1212(LC 13), 6=1213(LC 14)

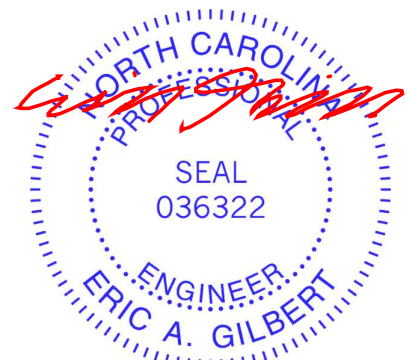
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1141/166, 2-3=-882/205, 3-4=-867/204, 4-5=-1121/167, 1-10=-1164/133, 5-6=-1170/132

BOT CHORD 9-10=-260/259, 7-9=-90/976

WEBS 3-7=-272/99, 1-9=-5/927, 5-7=-11/930

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCCL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 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 90 lb uplift at joint 10 and 90 lb uplift at joint 6.
  - 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.
  - 11) 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.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 1, 2022

**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 systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register	153381692
26815	T18	Common	3	1	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:38 2022 Page 1

ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-8lq3Upya\_LrmKwh9Yu\_J0eQjBgbgXgYk9at8sAytEzZ



4x6 ||

Scale = 1:53.1

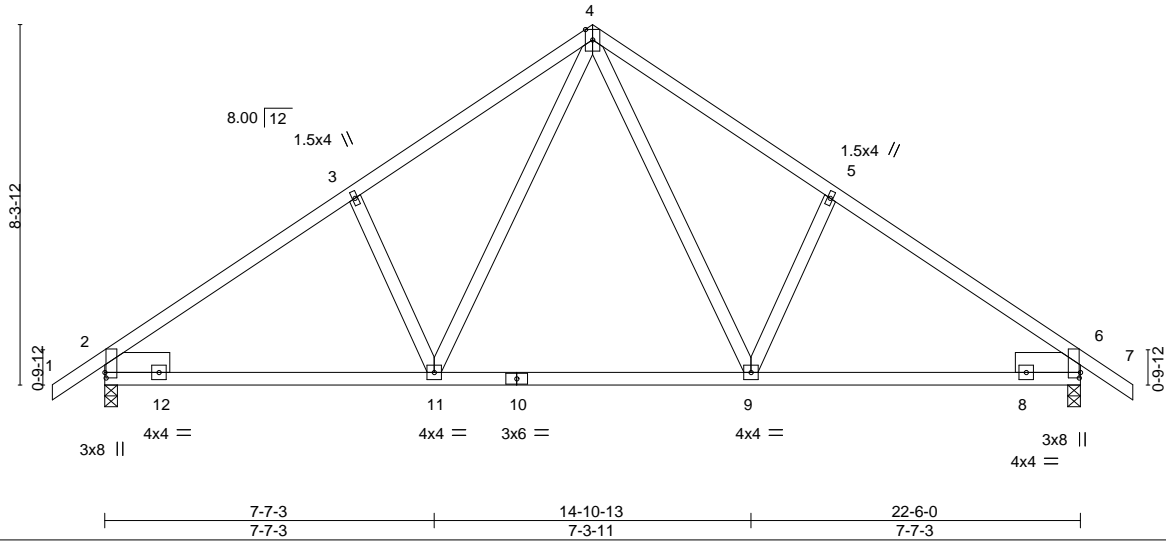


Plate Offsets (X,Y)--	[2:0-1-8,0-0-5], [6:0-1-8,0-0-5]
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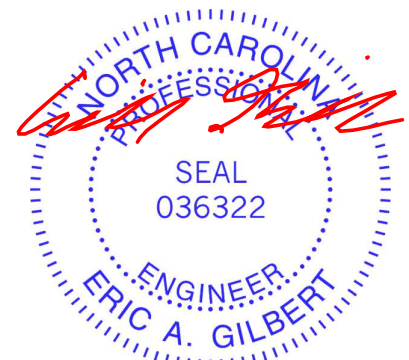
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.16 9-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.20	Vert(CT) -0.23 9-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.03 9-11 >999 240	Weight: 124 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.1 1-6-0, Right 2x6 SP No.1 1-6-0	

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=186(LC 7)  
 Max Uplift 2=-111(LC 8), 6=-111(LC 8)  
 Max Grav 2=993(LC 13), 6=993(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1245/131, 3-4=-1146/193, 4-5=-1146/193, 5-6=-1245/131  
 BOT CHORD 2-11=-134/1084, 9-11=0/744, 6-9=-103/969  
 WEBS 4-9=-54/553, 5-9=-282/149, 4-11=-54/553, 3-11=-282/149

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 111 lb uplift at joint 6.
  - 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.
  - 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.



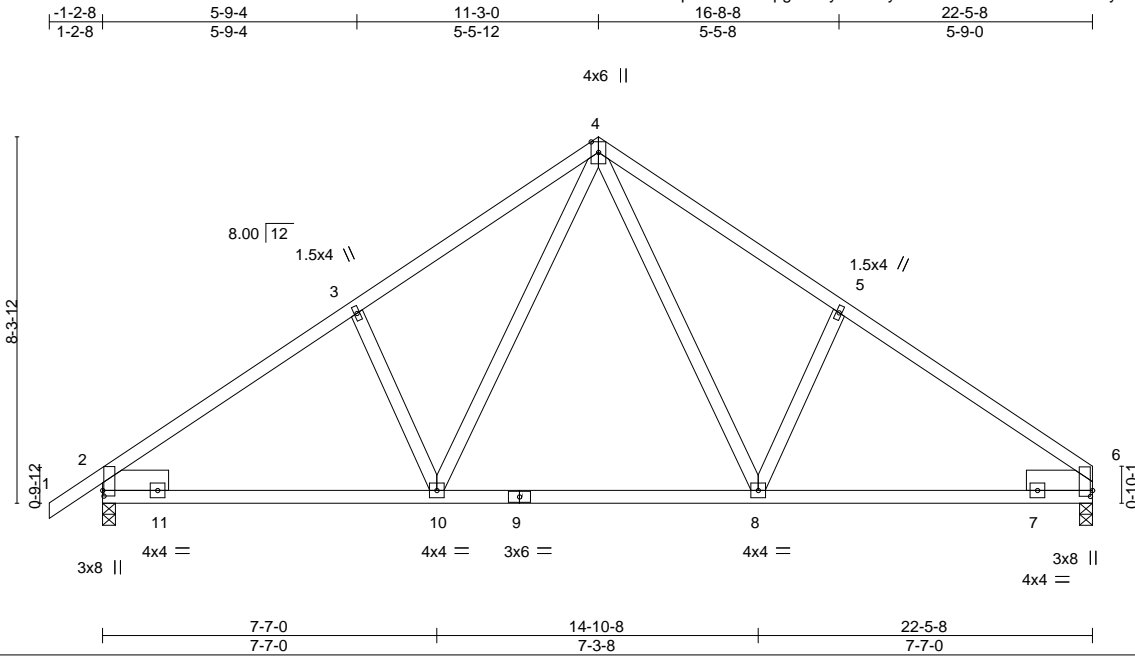
August 1, 2022

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 26815	Truss T19	Truss Type Common	Qty 2	Ply 1	Whittenton Bldrs/Register 153381693
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C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:39 2022 Page 1  
ID:m3JJ6pNkJbuT4FqrgLho0yzifBs-cyORh9zClezd4GL6bVYYszuy3xwG7ouOEdiOcytEzY



Scale = 1:52.3

Plate Offsets (X,Y)--	[2:0-1-8,0-0-5], [6:0-1-10,0-0-9]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.16 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.23 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.03 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.03 8-10 >999 240	Weight: 122 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.1 1-6-0, Right 2x6 SP No.1 1-6-0	

**REACTIONS.** (size) 6=0-3-8, 2=0-3-8  
 Max Horz 2=181(LC 7)  
 Max Uplift 6=-68(LC 8), 2=-112(LC 8)  
 Max Grav 6=923(LC 14), 2=992(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1244/132, 3-4=-1146/195, 4-5=-1144/197, 5-6=-1243/134  
 BOT CHORD 2-10=-154/1074, 8-10=0/733, 6-8=-161/957  
 WEBS 3-10=-282/149, 4-10=-54/553, 4-8=-58/553, 5-8=-284/151

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 6 and 112 lb uplift at joint 2.
  - 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.
  - 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.



August 1, 2022

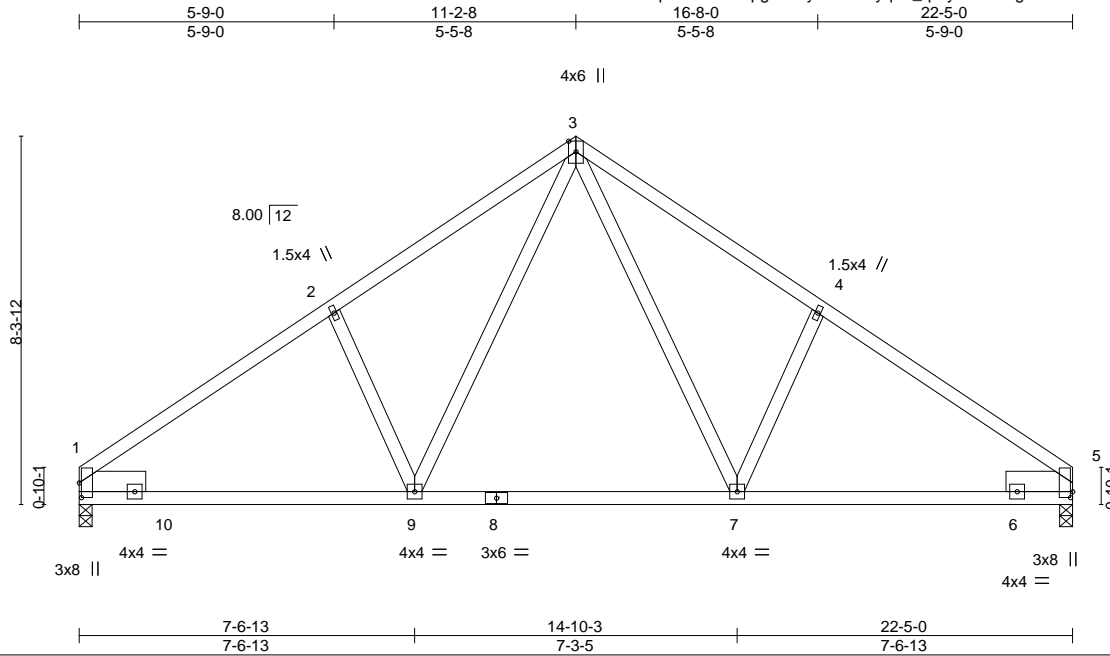
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Whittenton Bldrs/Register
26815	T20	Common	3	1	153381694
					Job Reference (optional)

C&R Truss, Autryville, NC - 28318,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 29 09:43:40 2022 Page 1

ID:m3JJ6pNkJbuT4FrgLho0yzifBs-48yqvV\_qWy5UZERyG1n53W4kTHA?a11duMFw3ytEzX



Scale = 1:52.0

Plate Offsets (X,Y)--	[1:0-4-0,0-0-9], [5:0-1-10,0-0-9]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.16 7-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.23 7-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.03 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.03 7-9 >999 240	Weight: 119 lb	FT = 20%

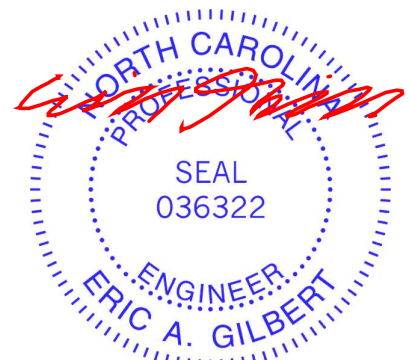
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.1 1-6-0, Right 2x6 SP No.1 1-6-0	

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
 Max Horz 1=-167(LC 6)  
 Max Uplift 1=-69(LC 8), 5=-69(LC 8)  
 Max Grav 1=922(LC 13), 5=922(LC 14)

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

TOP CHORD	1-2=-1243/135, 2-3=-1144/199, 3-4=-1144/199, 4-5=-1243/135
BOT CHORD	1-9=-161/1072, 7-9=0/733, 5-7=-161/957
WEBS	3-7=-58/554, 4-7=-284/151, 3-9=-58/554, 2-9=-284/151

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 1 and 69 lb uplift at joint 5.
  - 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.
  - 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.

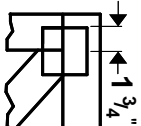


August 1, 2022

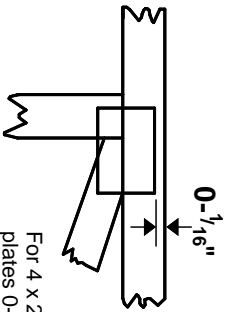
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in **MITek 20/20 software** or upon request.

## PLATE SIZE

**4 X 4**

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.