

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0323-1472
Watermark/Lot 89 South Creek/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I57507848 thru I57507871

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



March 31, 2023

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 J0323-1472	Truss A1	Truss Type COMMON	Qty 5	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507848
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:28 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-asHPG8R0o6PnvgTR0sWigHOQYbLsVMLai2OPJQzVTnr



5x5 =

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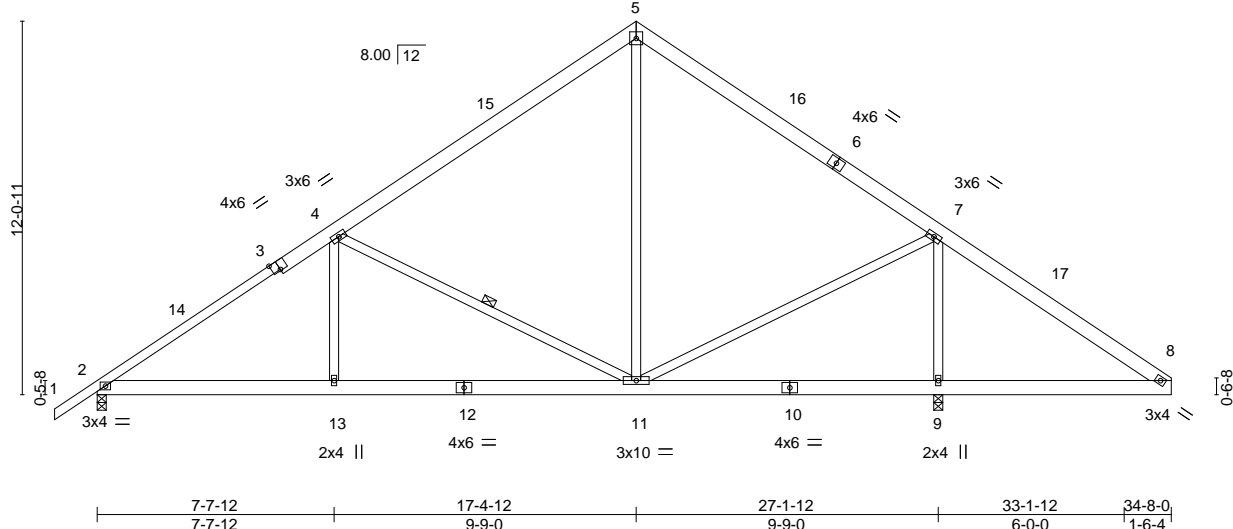


Plate Offsets (X,Y)--	[3:0-3:0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.05 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Vert(CT) -0.11 11-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 13 >999 240		
				Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 1-3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-11

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=291(LC 9)
 Max Uplift 2=91(LC 12), 9=94(LC 13)
 Max Grav 2=1090(LC 1), 9=1763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1470/217, 4-5=-770/192, 5-7=-774/180, 7-8=-365/532
 BOT CHORD 2-13=-150/1254, 11-13=-150/1254, 9-11=-325/372, 8-9=-325/372
 WEBS 4-13=0/373, 4-11=-869/304, 5-11=-4/320, 7-11=-179/901, 7-9=-1555/627

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-4-8 to 3-0-5, Interior(1) 3-0-5 to 17-4-12, Exterior(2) 17-4-12 to 21-9-9, Interior(1) 21-9-9 to 34-8-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 94 lb uplift at joint 9.



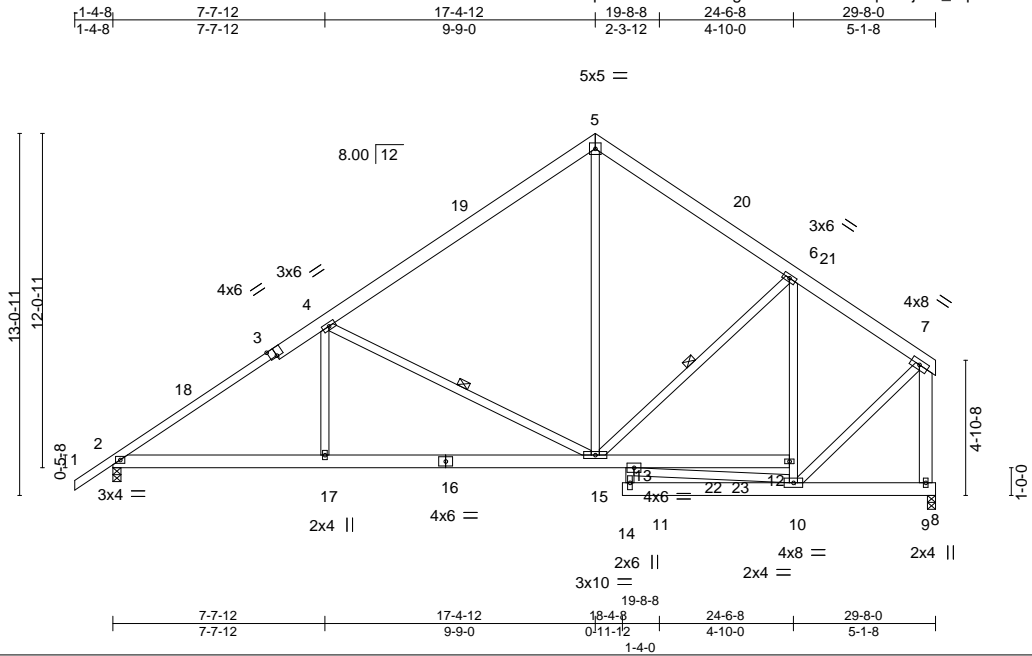
March 31, 2023

Job J0323-1472	Truss A2	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507849
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:30 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-XEO9hqTHKjfU9_dq7HYAiTmVP1MziWAMVoiZVTnp



Scale = 1:83.1

Plate Offsets (X,Y)--	[3:0-3:0,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.06 15-17	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.13 15-17	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.03 9	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 17	>999	240
							PLATES
							MT20
							GRIP
							244/190
							Weight: 256 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 1-3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 11-13: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 7-9: 2x6 SP No.1	WEBS 1 Row at midpt 4-15, 6-15

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=287(LC 9)
 Max Uplift 2=-85(LC 12), 9=-37(LC 13)
 Max Grav 2=1262(LC 1), 9=1202(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1774/326, 4-5=-1068/314, 5-6=-1041/342, 6-7=-846/211, 7-9=-1156/261
 BOT CHORD 2-17=-298/1500, 15-17=-298/1500, 13-15=-105/668
 WEBS 4-17=0/380, 4-15=-869/291, 5-15=-104/635, 10-12=-574/189, 6-12=-573/186,
 7-10=-136/907, 10-13=-91/515

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-4-8 to 3-0-5, Interior(1) 3-0-5 to 17-4-12, Exterior(2) 17-4-12 to 21-9-9, Interior(1) 21-9-9 to 29-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2 and 37 lb uplift at joint 9.



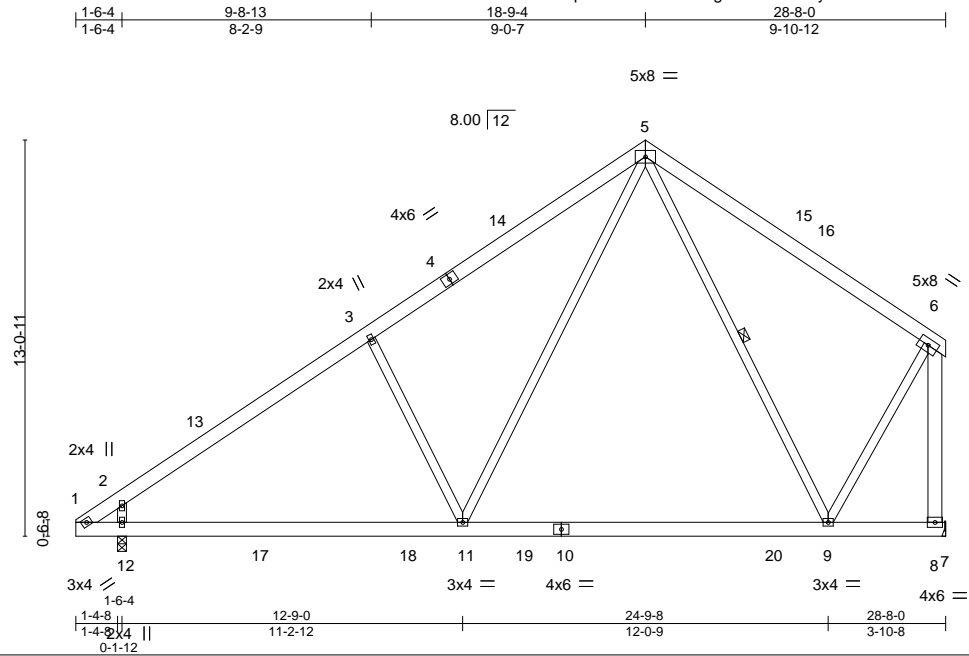
March 31, 2023

Job J0323-1472	Truss A3	Truss Type COMMON	Qty 11	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507850
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:31 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-?RyXuAUv51nLm8C0h_3PHw0wcpJhI800c3wkzVTno



Scale = 1:75.9

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 0.44	Vert(LL)	-0.19 9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.32 9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04 9-11	>999	240		
								Weight: 223 lb	FT = 20%

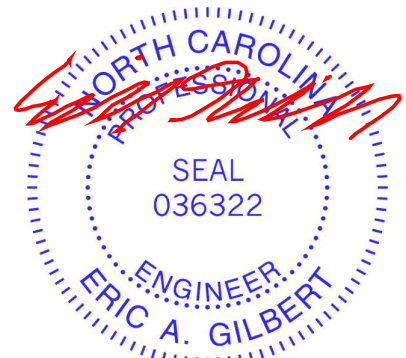
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-8: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-9

REACTIONS. (size) 8=Mechanical, 12=0-3-8
 Max Horz 12=294(LC 9)
 Max Uplift 8=66(LC 12), 12=58(LC 12)
 Max Grav 8=1192(LC 19), 12=1303(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1100/6, 2-3=-1466/262, 3-5=-1304/367, 5-6=-666/216, 6-8=-1288/222
 BOT CHORD 1-12=-55/1074, 11-12=-283/1252, 9-11=-77/652
 WEBS 3-11=-520/322, 5-11=-151/928, 5-9=-415/127, 6-9=0/916, 2-12=-743/394

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 28-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 8 and 58 lb uplift at joint 12.



March 31, 2023

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



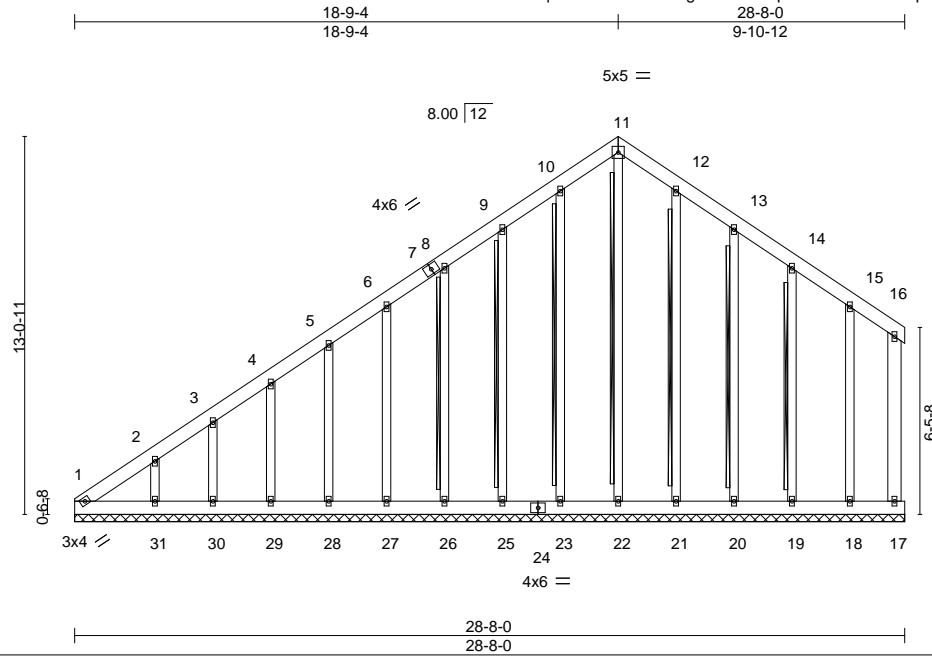
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss A3GE	Truss Type GABLE	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507851
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-xp4lJsV9de130SLPpP6tNL5M7c7PAjWJsK5A_dzVtnm



Scale = 1:79.6

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 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 305 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 11-22, 10-23, 9-25, 8-26, 12-21, 13-20, 14-19
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 28-8-0.
 (lb) - Max Horz 1=419(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except 1=139(LC 10), 31=140(LC 12), 20=105(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 17, 23, 25, 26, 27, 28, 29, 30, 21, 20, 19, 18 except 22=257(LC 13), 31=252(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-473/359, 2-3=-362/307, 3-4=-308/284, 4-5=-265/257, 8-9=-191/256, 9-10=-211/305, 10-11=-244/318, 11-12=-244/303, 12-13=-211/258

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-9-4, Exterior(2) 4-9-4 to 18-9-4, Corner(3) 18-9-4 to 23-2-1, Exterior(2) 23-2-1 to 28-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 30, 21, 19, 18 except (jt=lb) 1=139, 31=140, 20=105.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 31, 2023

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

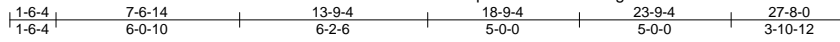
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss A4	Truss Type COMMON	Qty 6	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507852
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Comtech, Inc. Fayetteville, NC - 28314,

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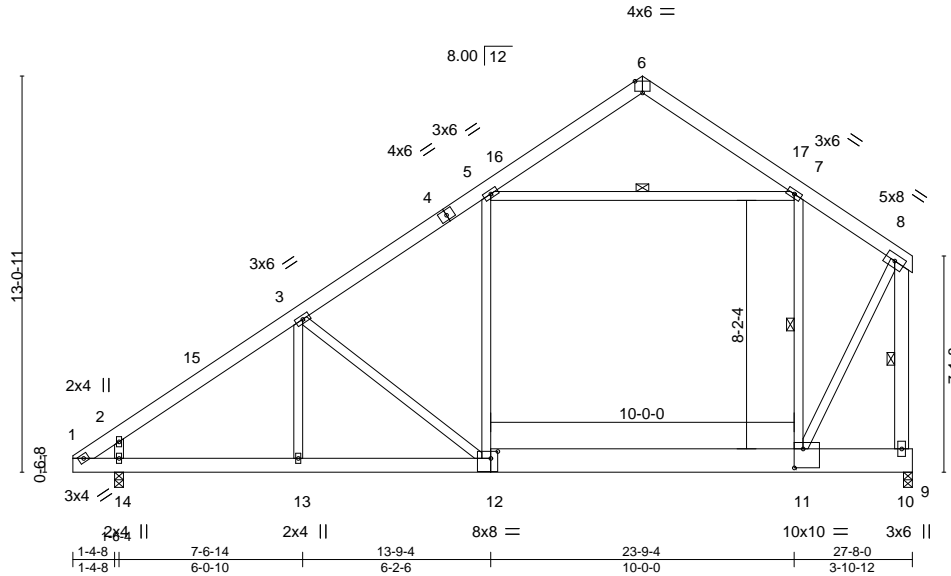


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [11:0-3-8,0-7-8], [12:0-2-12,0-2-12]

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 0.44	Vert(LL)	-0.28 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.54 12-13	>572	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.27 12-13	>999	240	Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 3-7-15 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-10: 2x6 SP No.1	WEBS 1 Row at midpt 8-10, 7-11, 5-7

REACTIONS. (size) 10=0-3-8, 14=0-3-8
 Max Horz 14=293(LC 9)
 Max Uplift 10=-76(LC 12), 14=-52(LC 12)
 Max Grav 10=1275(LC 19), 14=1221(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1060/35, 2-3=-1423/228, 3-5=-1021/217, 5-6=-269/130, 6-7=-364/149,
 7-8=-940/204, 8-10=-2119/396
 BOT CHORD 1-14=-51/1045, 13-14=-304/1223, 12-13=-304/1222, 11-12=-141/851
 WEBS 5-12=0/294, 8-11=-313/1899, 5-7=-651/212, 3-12=-548/210, 3-13=0/258, 2-14=-715/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14.



March 31, 2023

Job J0323-1472	Truss A5	Truss Type COMMON	Qty 2	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507853
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Comtech, Inc. Fayetteville, NC - 28314,

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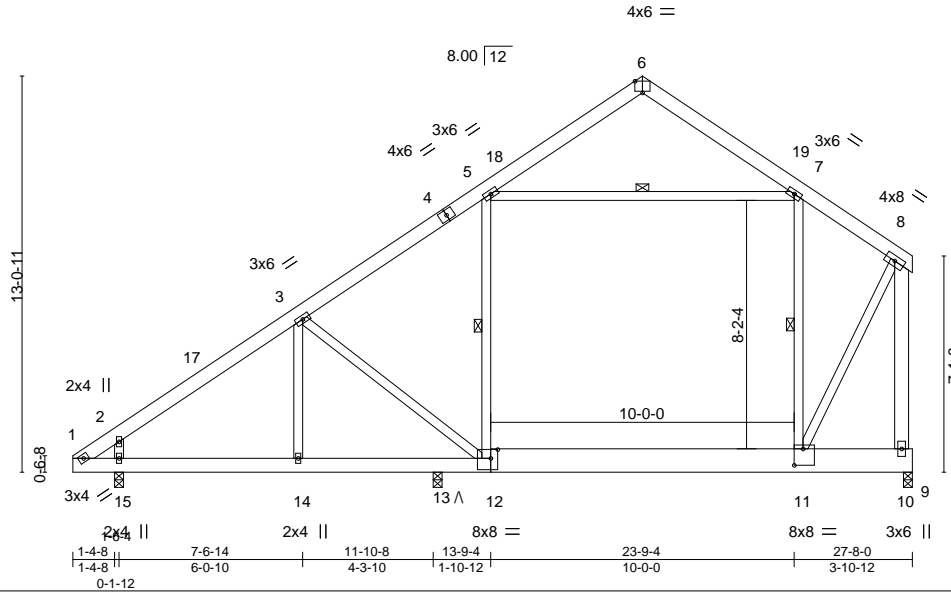


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [11:0-3-8,0-6-8], [12:0-2-12,0-3-8]

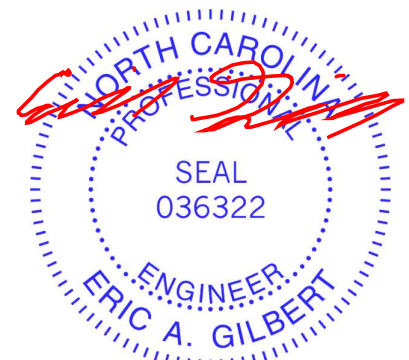
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.07	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.11	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	12-13	>999		
								Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-10: 2x6 SP No.1	WEBS 1 Row at midpt 5-12, 7-11, 5-7

REACTIONS. (size) 10=0-3-8, 15=0-3-8, 13=0-3-8
 Max Horz 15=293(LC 9)
 Max Uplift 10=-76(LC 12), 15=-52(LC 12), 13=REL
 Max Grav 10=974(LC 20), 15=793(LC 20), 13=842(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-598/57, 2-3=-766/239, 3-5=-674/220, 5-6=-345/130, 6-7=-340/149, 7-8=-525/206,
 8-10=-1136/400
 BOT CHORD 1-15=-63/571, 14-15=-316/575, 13-14=-316/575, 12-13=-313/549, 11-12=-143/421
 WEBS 5-12=-322/101, 8-11=-316/915, 5-7=-273/213, 3-12=-315/223, 2-15=-412/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 15.
 - "Λ" indicates Released bearing: allow for upward movement at joint(s) 13.



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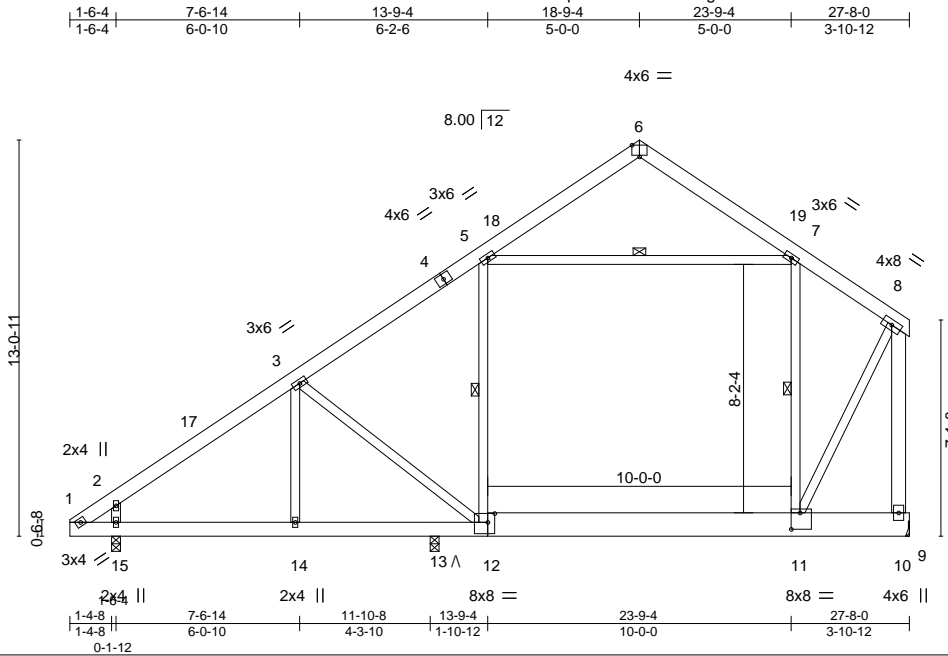
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 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</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss A5A	Truss Type COMMON	Qty 4	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507854
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-IntBMZZIRAFM6DEMbyh24Oo9wdjOrf2?cpwgqzVTnh



Scale = 1:75.9

Plate Offsets (X,Y)-- [6:0-3-0,Edge], [11:0-3-8,0-6-8], [12:0-2-12,0-3-8]

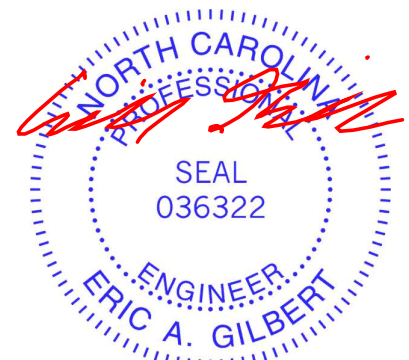
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.07 11-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.11 11-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 12-13 >999 240		
				Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-10: 2x6 SP No.1	WEBS 1 Row at midpt 5-12, 7-11, 5-7

REACTIONS. (size) 10=Mechanical, 15=0-3-8, 13=0-3-8
 Max Horz 15=293(LC 9)
 Max Uplift 10=-76(LC 12), 15=-52(LC 12), 13=REL
 Max Grav 10=974(LC 20), 15=793(LC 20), 13=842(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-598/57, 2-3=-766/239, 3-5=-674/220, 5-6=-345/130, 6-7=-340/149, 7-8=-525/206, 8-10=-1136/400
 BOT CHORD 1-15=-63/571, 14-15=-316/575, 13-14=-316/575, 12-13=-313/549, 11-12=-143/421
 WEBS 5-12=-322/101, 8-11=-316/915, 5-7=-273/213, 3-12=-315/223, 2-15=-412/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-9-4, Exterior(2) 18-9-4 to 23-2-1, Interior(1) 23-2-1 to 27-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 10, 15.
 - "A" indicates Released bearing: allow for upward movement at joint(s) 13.



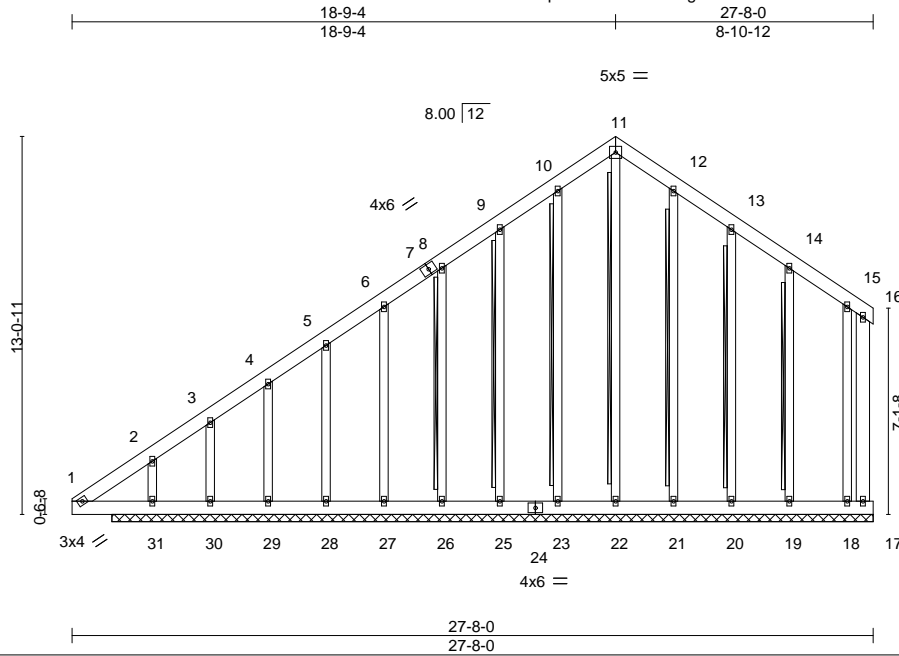
March 31, 2023

Job	Truss	Truss Type	Qty	Ply	Watermark/Lot 89 South Creek/Harnett
J0323-1472	A5GE	GABLE	1	1	157507855

Comtech, Inc. Fayetteville, NC - 28314,

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ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-E9?xnFbYzov4LW0jNkW9ptX2RSdJveLTwl1kzVTnf



Scale = 1:79.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	-0.00	17	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 302 lb	FT = 20%
	Code IRC2015/TPI2014							

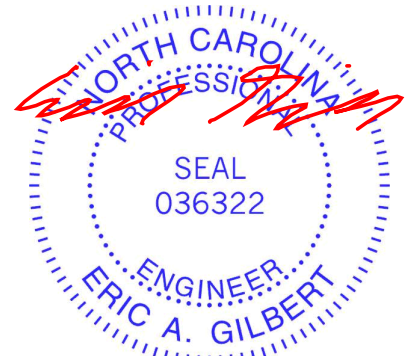
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2

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.
 WEBS T-Brace: 2x4 SPF No.2 - 11-22, 10-23, 9-25, 8-26, 12-21, 13-20, 14-19
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. All bearings 26-3-8.
 (lb) - Max Horz 31=436(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 22, 23, 25, 26, 27, 29, 21, 19, 18 except 17=-158(LC 12), 28=-110(LC 12), 30=-572(LC 12), 31=-170(LC 8), 20=-104(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 17, 22, 23, 25, 26, 27, 28, 29, 21, 20, 19, 18 except 30=354(LC 10), 31=669(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-412/306, 2-3=-460/335, 3-4=-281/259, 9-10=-186/270, 10-11=-221/286, 11-12=-221/271
 BOT CHORD 1-31=-278/423
 WEBS 3-30=-184/299, 2-31=-312/59

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-4-13, Exterior(2) 4-4-13 to 18-9-4, Corner(3) 18-9-4 to 23-2-1, Exterior(2) 23-2-1 to 27-3-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; 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 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) 22, 23, 25, 26, 27, 29, 21, 19, 18 except (jt=lb) 17=158, 28=110, 30=572, 31=170, 20=104.
 - Non Standard bearing condition. Review required.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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



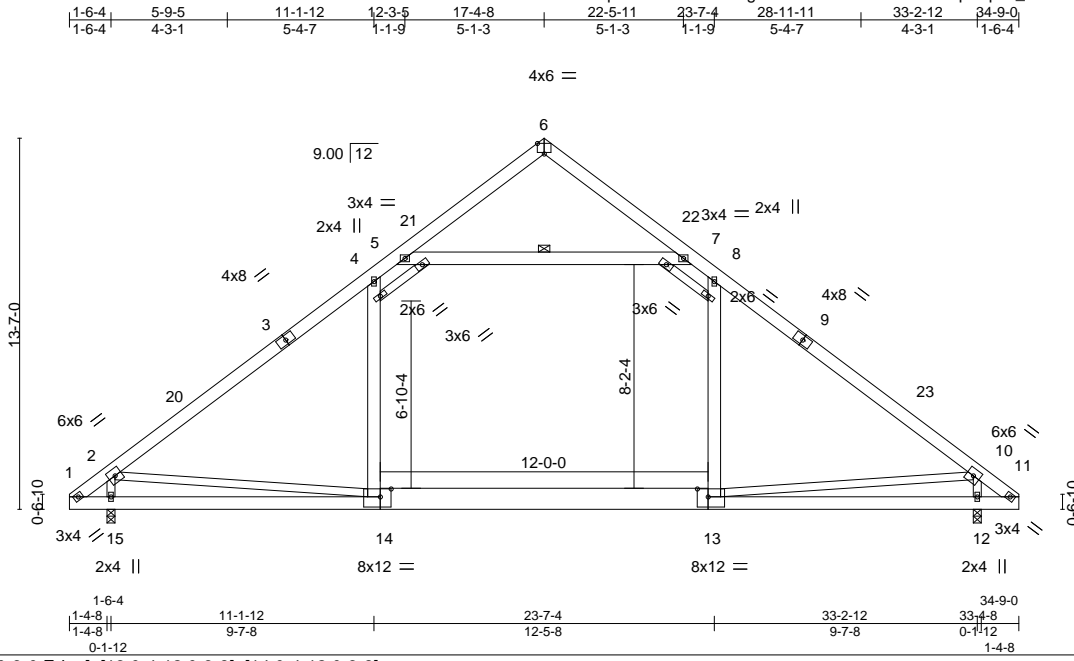
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss B1	Truss Type ATTIC	Qty 10	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507856
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-AY7iCxcoVP9nbqX8qom_EEzoEEzgncmewDn8pczVTnd



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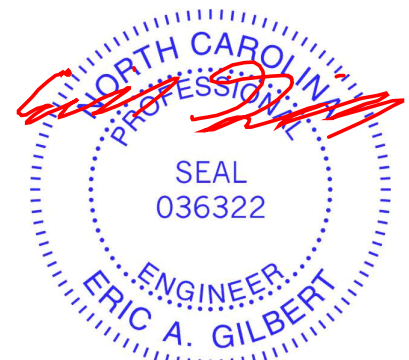
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.33 14-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.38 14-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.35 14-15 >999 240	Weight: 301 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 13-14: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-7,4-14,8-13: 2x6 SP No.1	WEBS 1 Row at midpt 5-7

REACTIONS. (size) 15=0-3-8, 12=0-3-8
 Max Horz 15=-313(LC 8)
 Max Grav 15=1975(LC 20), 12=1975(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-677/182, 2-4=-2465/0, 4-5=-1732/140, 5-6=-259/119, 6-7=-259/119,
 7-8=-1736/140, 8-10=-2471/0, 10-11=-677/199
 BOT CHORD 1-15=-197/729, 14-15=-505/965, 13-14=0/1895, 12-13=-208/742, 11-12=-208/741
 WEBS 5-7=-1780/126, 4-14=0/820, 8-13=0/820, 2-15=-1911/226, 2-14=-26/1563,
 10-13=-48/1580, 10-12=-1921/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 34-9-0 zone;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14
 - Attic room checked for L/360 deflection.



March 31, 2023

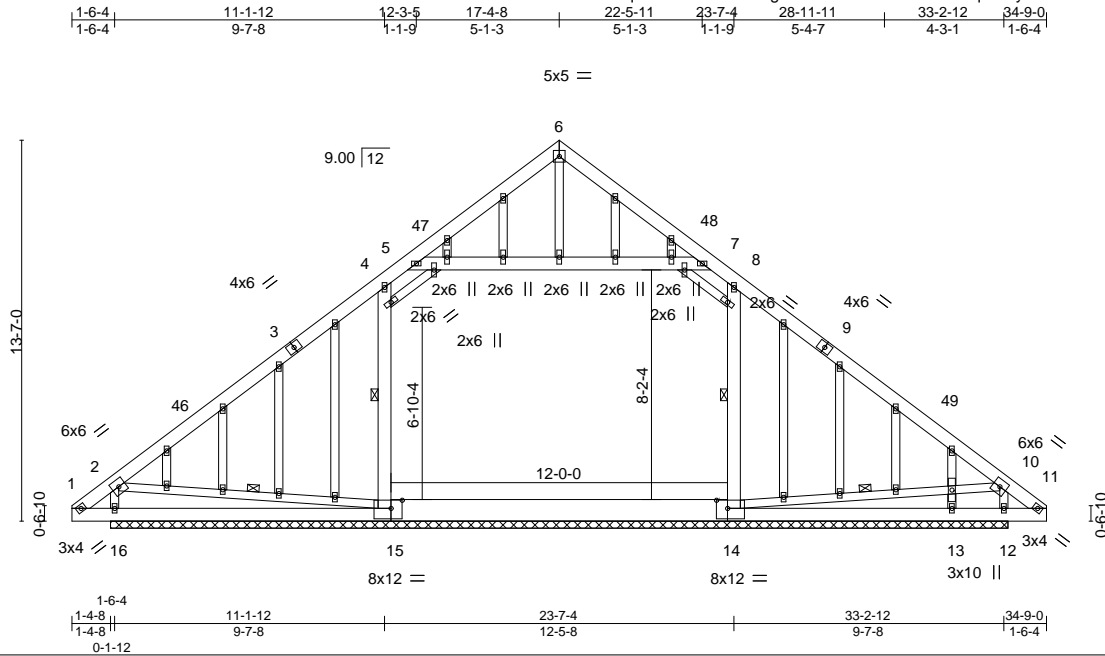
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss B1GE	Truss Type GABLE	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507857
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-6xEsdce310QVq8hWyDoSJf2BL2pdFijwOXGFUzVTnb



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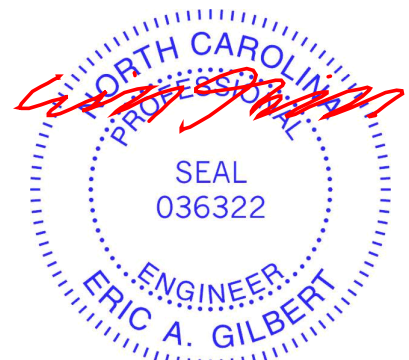
Plate Offsets (X,Y)--	[14:0-4-12,0-3-8], [15:0-4-12,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 362 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 14-15: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-7,4-15,8-14: 2x6 SP No.1	WEBS 1 Row at midpt 4-15, 8-14, 10-14, 2-15
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 32-0-0.
 (lb) - Max Horz 16=392(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 12, 13 except 15=382(LC 12),
 14=360(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 15=1164(LC 20),
 14=1107(LC 21), 16=533(LC 1), 12=417(LC 20), 13=264(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-298/65, 2-4=-361/177, 4-5=-319/194, 5-6=-348/124, 6-7=-348/124, 7-8=-318/193,
 8-10=-341/151
 BOT CHORD 1-16=-173/394, 15-16=-439/633, 14-15=-175/348
 WEBS 4-15=-676/446, 8-14=-661/433, 2-16=-414/284, 10-14=-396/512, 10-12=-546/274,
 2-15=-555/526

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 34-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; 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 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 12, 13 except (jt=lb) 15=382, 14=360.
 - N/A
 - Attic room checked for L/360 deflection.



March 31, 2023

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

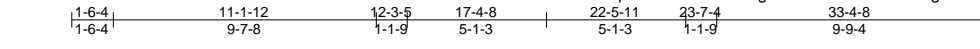
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss B2	Truss Type ATTIC	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507858
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:46 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-3JMC2lfJZegD4Rrv3erwO47TqsLcJrsDrrlMyNzVTnZ



4x6 =

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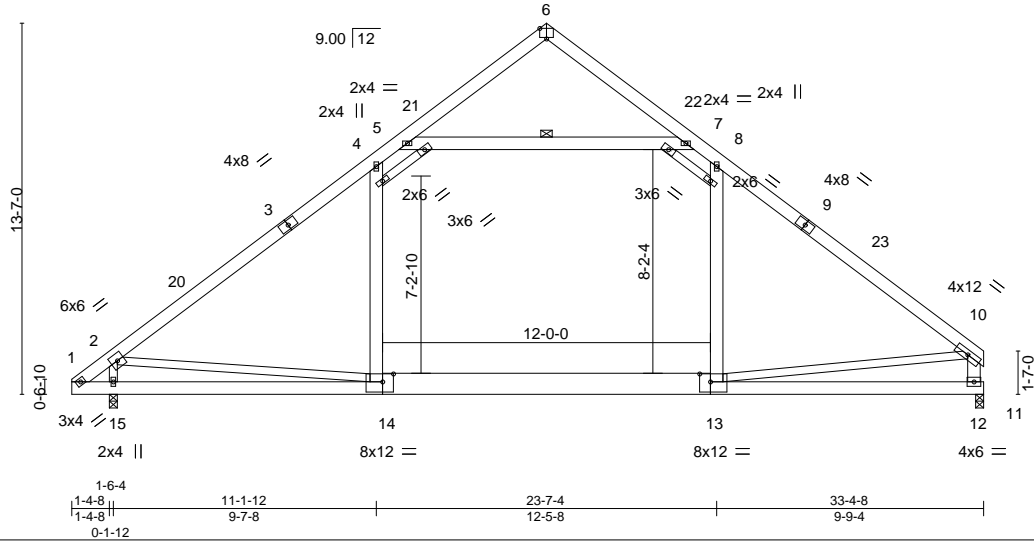


Plate Offsets (X,Y)--	[6:0-3-0,Edge], [13:0-4-12,0-3-8], [14:0-4-12,0-3-8]
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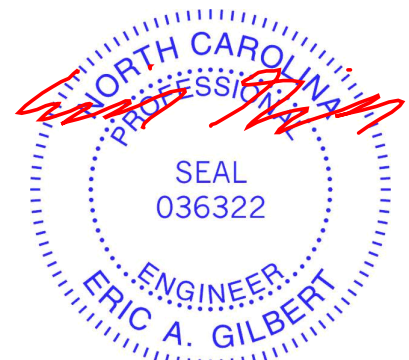
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.33	14-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.39	14-15	>964		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.35	14-15	>999		
								Weight: 296 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-5 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 13-14: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-7-7 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-7,4-14,8-13,10-12: 2x6 SP No.1	WEBS 1 Row at midpt 5-7

REACTIONS. (size) 12=0-3-8, 15=0-3-8
 Max Horz 15=312(LC 9)
 Max Grav 12=1851(LC 21), 15=1939(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-684/179, 2-4=-2448/0, 4-5=-1715/137, 5-6=-250/115, 6-7=-257/114,
 7-8=-1728/143, 8-10=-2434/0, 10-12=-1795/68
 BOT CHORD 1-15=-194/752, 14-15=-500/979, 13-14=0/1871, 12-13=-166/523
 WEBS 5-7=-1772/136, 4-14=0/816, 8-13=0/788, 10-13=0/1709, 2-14=-51/1539, 2-15=-1894/263

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 17-4-8, Exterior(2) 17-4-8 to 21-9-5, Interior(1) 21-9-5 to 33-0-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-13
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14
 - 7) Attic room checked for L/360 deflection.



March 31, 2023

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

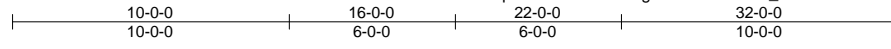
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss B3	Truss Type ROOF TRUSS	Qty 1	Ply 2	Watermark/Lot 89 South Creek/Harnett 157507859
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:48 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-?iUzS_hZ4FwxJl?HB2tOUVDpqqf3YBPawJ9ES0FzVTnX



4x6 =

Scale = 1:83.2

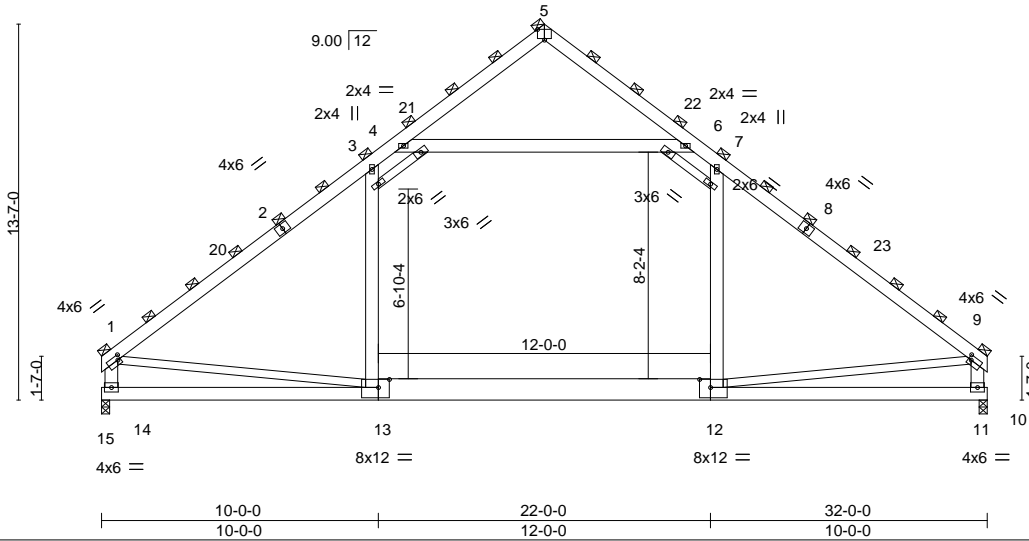


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [5:0-3-0,Edge], [9:0-1-4,0-2-0], [12:0-4-12,0-3-8], [13:0-4-12,0-3-8]

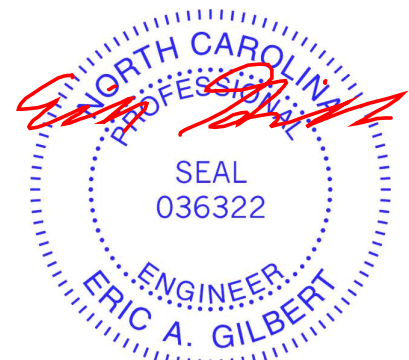
LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.25 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.28 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.25 13-14	>999	240	Weight: 580 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD 2x6 SP No.1 *Except* 12-13: 2x10 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x6 SP No.1 *Except* 1-13,9-12,16-17,18-19: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 11=0-3-8
 Max Horz 14=-422(LC 10)
 Max Grav 14=2763(LC 20), 11=2763(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-3615/0, 3-4=-2560/217, 4-5=-373/165, 5-6=-373/165, 6-7=-2565/217, 7-9=-3622/0,
 1-14=-2665/106, 9-11=-2671/106
 BOT CHORD 13-14=-651/1087, 12-13=0/2782, 11-12=-244/792
 WEBS 7-12=0/1176, 3-13=0/1176, 1-13=0/2509, 9-12=0/2526, 4-6=-2645/215

- 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 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 31-7-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-12, 3-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



March 31, 2023

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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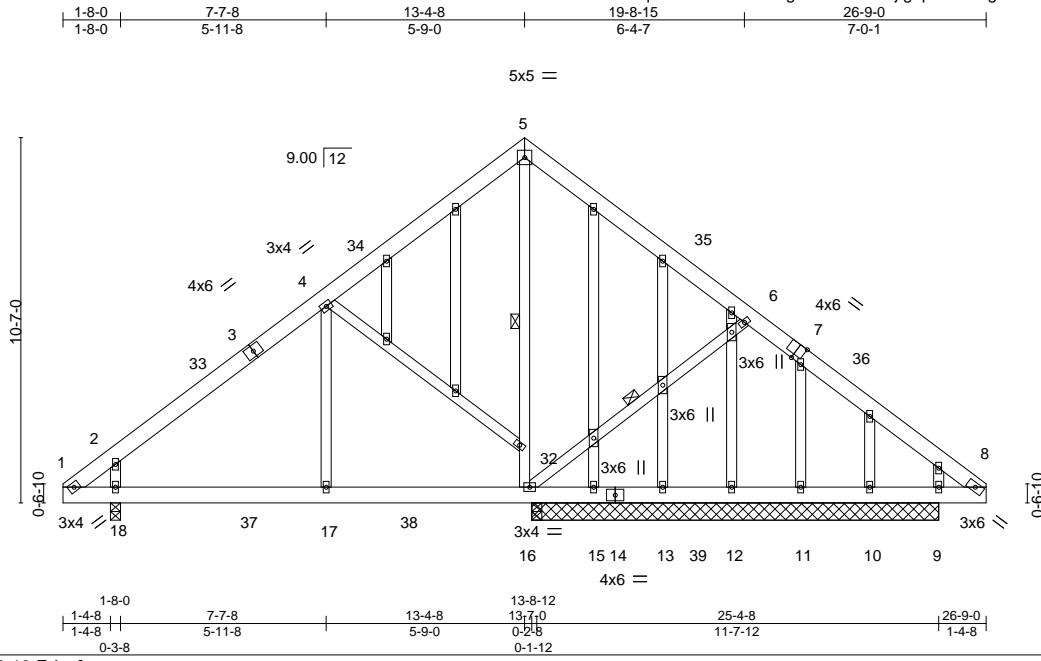
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss C1GE	Truss Type GABLE	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507860
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:50 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-x5cjtgiqcsAfY39glTvsZwlEvTrJfHxpmTjZ58zVTnV



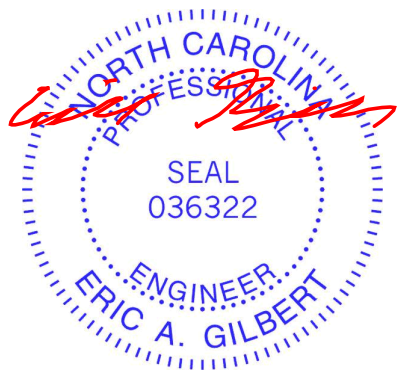
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.07 17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.13 17-18 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 17-18 >999 240	Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.2	WEBS 1 Row at midpt 6-16, 5-16
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 11-9-8 except (jt=length) 18=0-3-8.
 (lb) - Max Horz 18=302(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 12, 11 except 18=234(LC 12), 16=220(LC 13), 15=296(LC 19), 10=316(LC 19), 9=365(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 15, 13, 12, 11, 10 except 18=693(LC 19), 16=1059(LC 20), 16=1041(LC 1), 9=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-294/0, 2-4=-480/203, 4-5=-287/288, 5-6=-351/359, 6-8=-568/353
 BOT CHORD 1-18=0/284, 17-18=-248/477, 16-17=-246/478, 15-16=-193/393, 13-15=-193/393, 12-13=-193/393, 11-12=-193/393, 10-11=-193/393, 9-10=-193/393, 8-9=-193/393
 WEBS 2-18=-450/309, 6-16=-447/379, 16-32=-470/0, 5-32=-347/54, 4-32=-318/170

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-4-8, Exterior(2) 13-4-8 to 17-9-5, Interior(1) 17-9-5 to 26-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; 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 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 12, 11 except (jt=lb) 18=234, 16=220, 15=296, 10=316, 9=365.

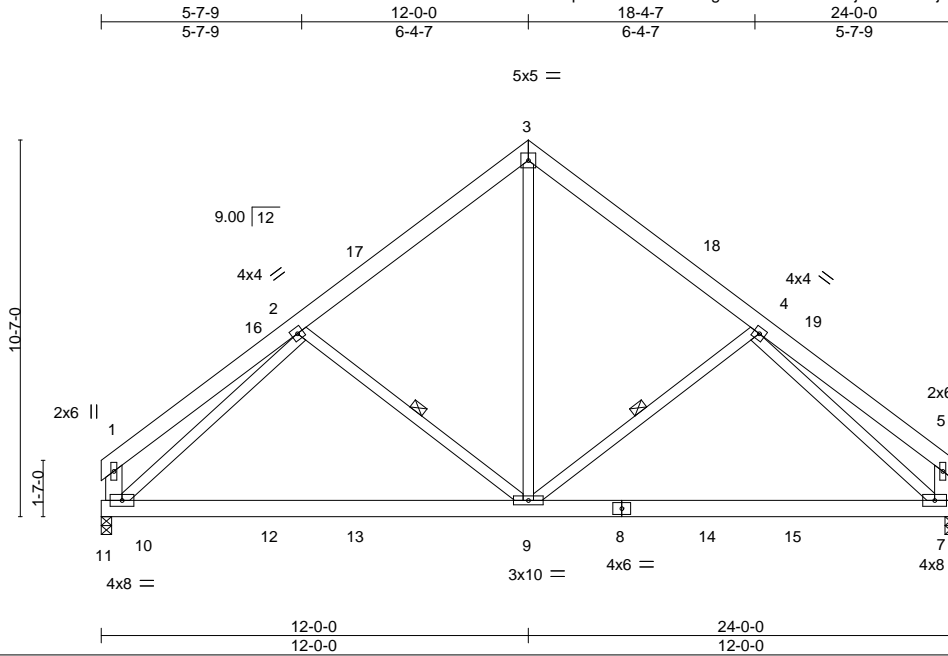


Job J0323-1472	Truss C2	Truss Type QUEENPOST	Qty 3	Ply 1	Watermark/Lot 89 South Creek/Harnett Job Reference (optional)	157507861
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:51 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-PH9550jSNAIWADjssBQ558rOetB5Om5y?7S7dazVTnU



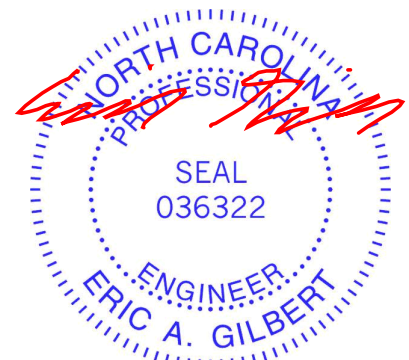
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.07 9-10	>999	360	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.13 9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01 9	>999	240		
								Weight: 190 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 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.2 *Except* 1-10,5-7: 2x6 SP No.1	WEBS 1 Row at midpt 2-9, 4-9

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=-209(LC 10)
 Max Uplift 10=-35(LC 12), 7=-35(LC 13)
 Max Grav 10=939(LC 1), 7=939(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-439/72, 2-3=-855/285, 3-4=-855/285, 4-5=-439/72, 1-10=-356/100, 5-7=-355/100
 BOT CHORD 9-10=-129/852, 7-9=-129/732
 WEBS 2-9=-314/229, 3-9=-131/623, 4-9=-314/229, 2-10=-717/245, 4-7=-717/245

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 23-7-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.



March 31, 2023

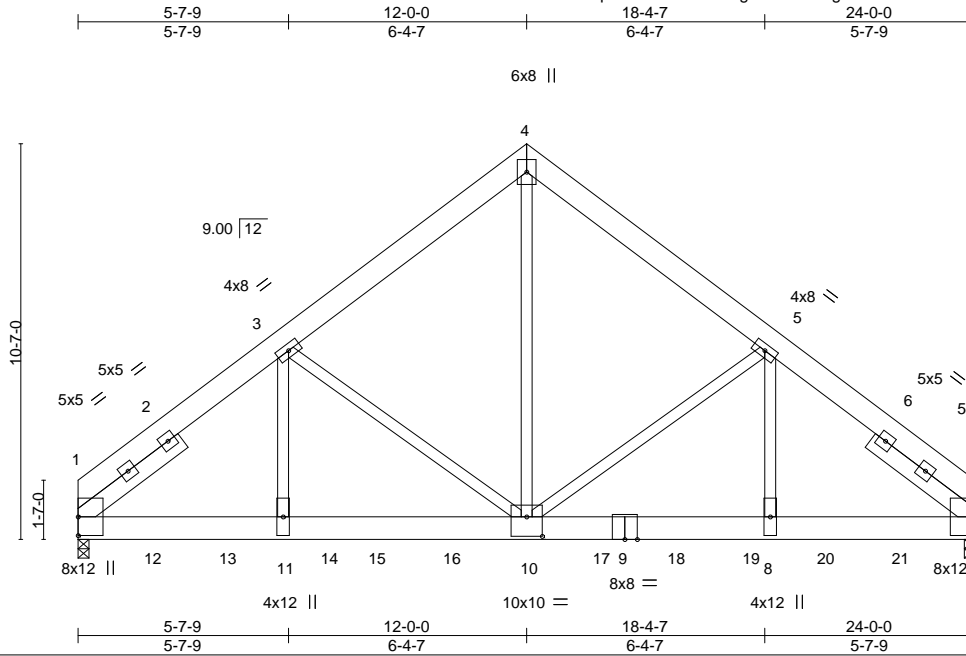
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 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</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss C3GDR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Watermark/Lot 89 South Creek/Harnett Job Reference (optional)	157507862
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:53 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-LgHsWhiivnYEPWtF_cTZBZwdGgrgsdeFSRxDiTzVTnS



Scale = 1:61.6

Plate Offsets (X,Y)--	[10:0-5-0,0-6-4]				
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 0.68	Vert(LL) -0.09 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.17 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.04 7 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.06 8-10 >999 240	Weight: 470 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 3-5-10, Right 2x6 SP No.1 3-5-10	

REACTIONS. (size) 1=0-3-8, 7=0-3-8
 Max Horz 1=237(LC 26)
 Max Uplift 1=-489(LC 8), 7=-485(LC 9)
 Max Grav 1=7306(LC 2), 7=7245(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-9025/627, 3-4=-6259/531, 4-5=-6259/531, 5-7=-9028/628
 BOT CHORD 1-11=-488/6624, 10-11=-489/6649, 8-10=-396/6648, 7-8=-395/6624
 WEBS 4-10=-485/6751, 5-10=-2040/289, 5-8=-165/3439, 3-10=-2041/288, 3-11=-163/3434

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) except (jt=lb) 1=489, 7=485.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1170 lb down and 89 lb up at 1-11-4, 1170 lb down and 89 lb up at 3-11-4, 1170 lb down and 89 lb up at 5-11-4, 1170 lb down and 89 lb up at 7-11-4, 1170 lb down and 89 lb up at 9-11-4, 1170 lb down and 89 lb up at 11-11-4, 1170 lb down and 89 lb up at 13-11-4, 1170 lb down and 89 lb up at 15-11-4, 1170 lb down and 89 lb up at 17-11-4, and 1170 lb down and 89 lb up at 19-11-4, and 1170 lb down and 89 lb up at 21-11-4 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



March 31, 2023

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 J0323-1472	Truss C3GDR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Watermark/Lot 89 South Creek/Harnett I57507862 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:53 2023 Page 2
ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-LgHsWhiivnYEPWtF_cTZBZwdGgrgsdeFSRxDiTzVTnS

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1105(B) 12=-1105(B) 13=-1105(B) 14=-1105(B) 15=-1105(B) 16=-1105(B) 17=-1105(B) 18=-1105(B) 19=-1105(B) 20=-1105(B) 21=-1105(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



818 Soundside Road
Edenton, NC 27932

Job J0323-1472	Truss D1	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507863
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Comtech, Inc. Fayetteville, NC - 28314,

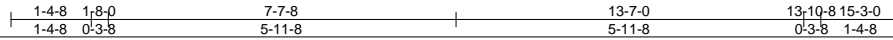
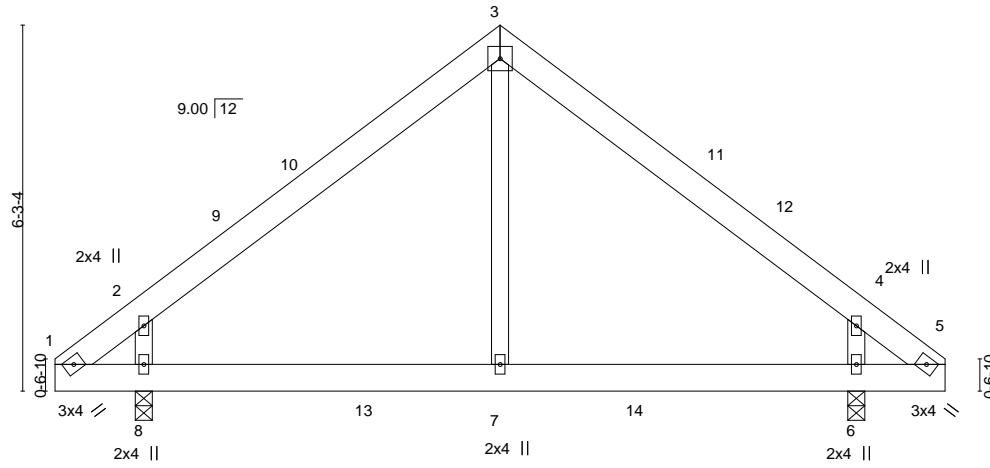
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:55 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-I2PcwNmyRPoxfq1e51V1G_?5IUbGKjCYwIQKmLzVTnQ



5x5 =

Scale = 1:39.5



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)	-0.01	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01	7-8	>999		
								Weight: 91 lb	FT = 20%

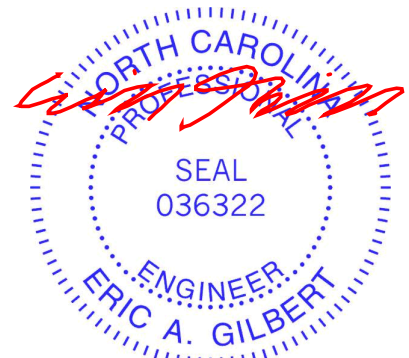
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

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) 6=0-3-8, 8=0-3-8
 Max Horz 8=138(LC 9)
 Max Uplift 6=-32(LC 13), 8=-32(LC 12)
 Max Grav 6=610(LC 1), 8=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-350/9, 2-3=-504/138, 3-4=-504/138, 4-5=-350/9
 BOT CHORD 1-8=0/341, 7-8=0/341, 6-7=0/341, 5-6=0/341
 WEBS 4-6=-481/316, 2-8=-481/316

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 15-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.



March 31, 2023

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 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



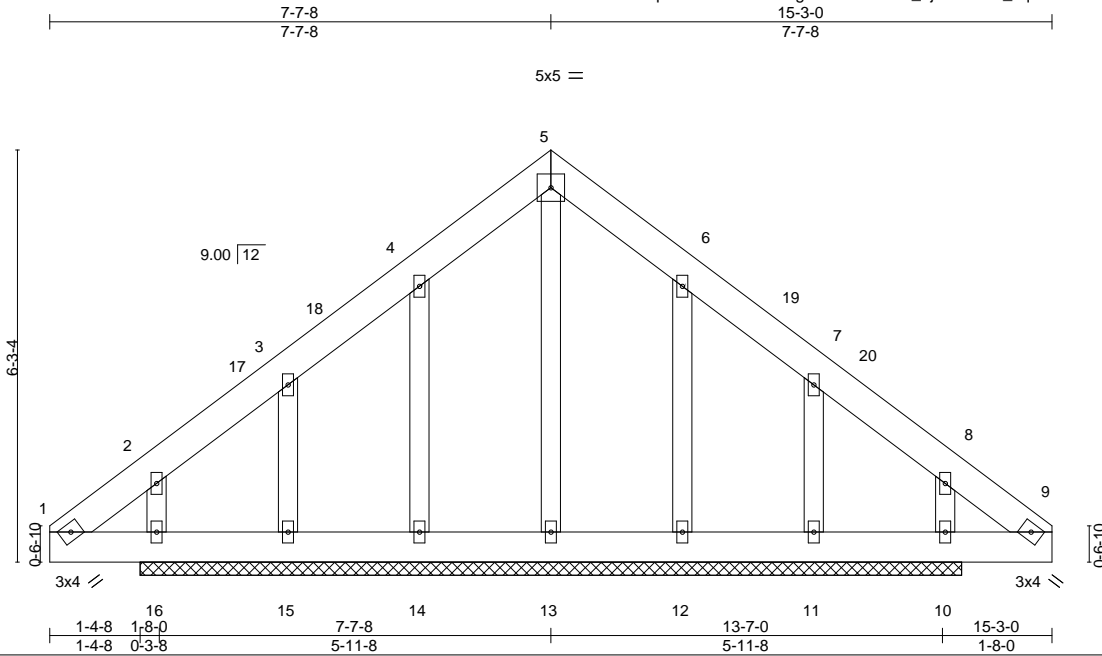
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss D1GE	Truss Type GABLE	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507864
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:56 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-mEz_8jnaCiwoG_cqfk0GoBYIcuzL39ui8PATlozVTnP



Scale = 1:35.1

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 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 109 lb	FT = 20%

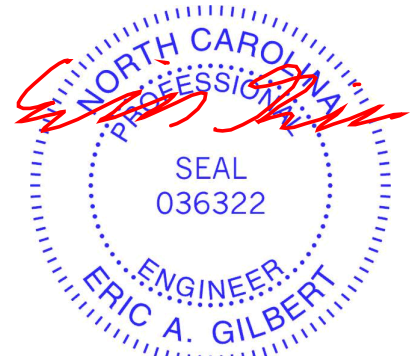
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 12-6-0.
 (lb) - Max Horz 16=172(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 16, 12, 10 except 15=177(LC 12), 11=170(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 15-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 16, 12, 10 except (jt=lb) 15=177, 11=170.
 - 9) N/A



March 31, 2023

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 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



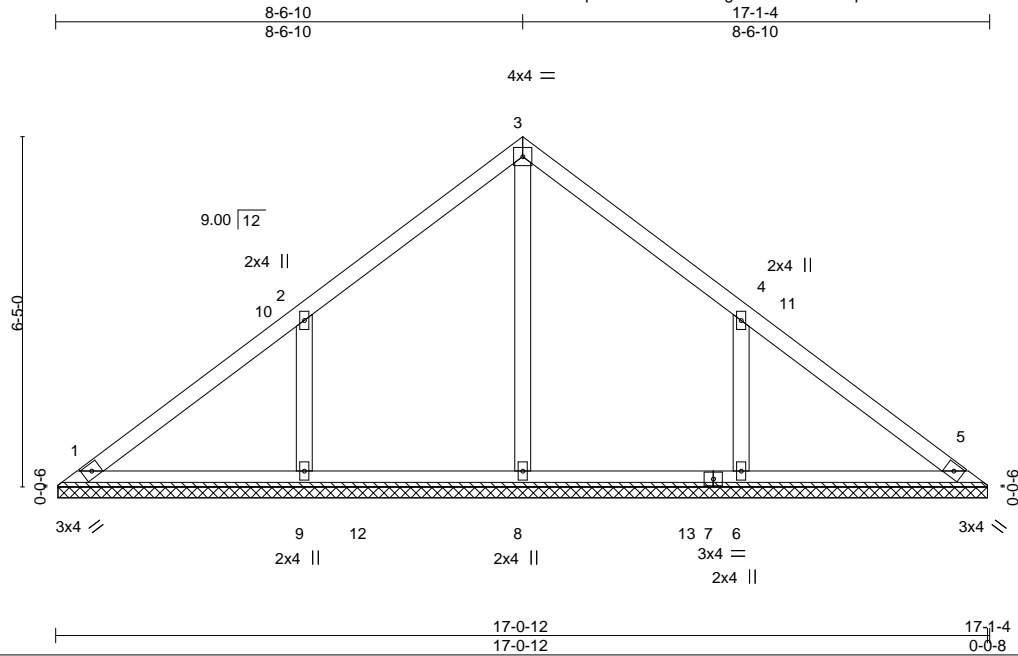
818 Soundside Road
 Edenton, NC 27932

Job J0323-1472	Truss VB1	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507865
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:58 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-id5IZPprkJAWWHmCm92ktcdcrheZX3H_cjf_NgzVTnN



Scale = 1:42.2

Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]								
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 0.18	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.12	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.10	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 73 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.1		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2			

REACTIONS. All bearings 17-0-4.
 (lb) - Max Horz 1=146(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=135(LC 12), 6=134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=347(LC 19), 9=450(LC 19), 6=450(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-364/244, 4-6=-364/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-6-10, Interior(1) 4-6-10 to 8-6-10, Exterior(2) 8-6-10 to 12-11-7, Interior(1) 12-11-7 to 16-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=135, 6=134.



March 31, 2023

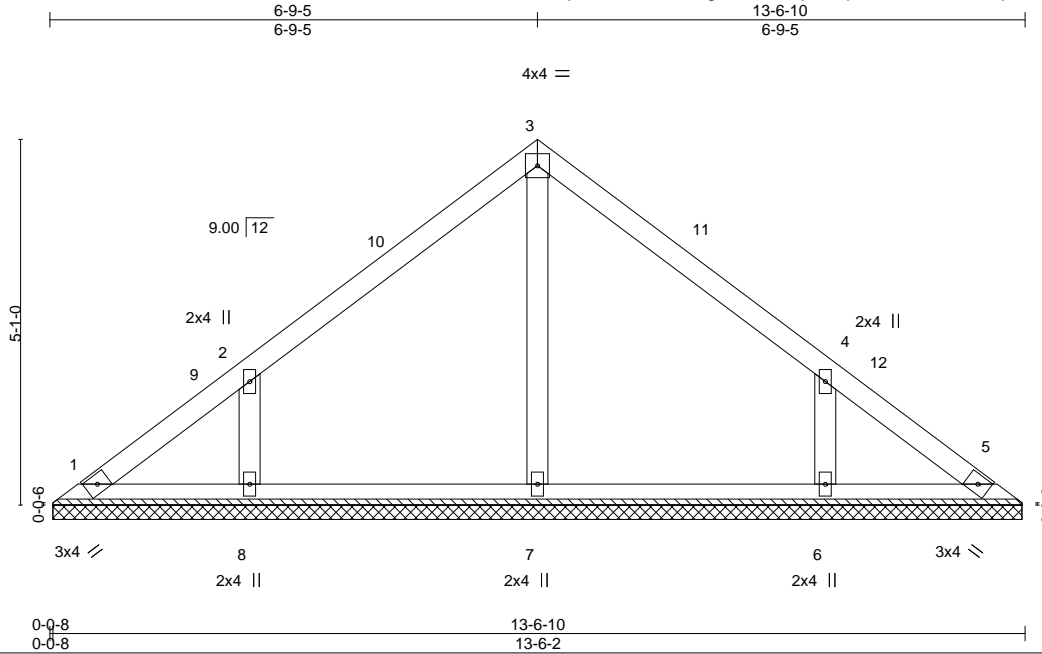
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss VB2	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett Job Reference (optional)	I57507866
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:09:59 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-Ape7mlpTVdIN7RLPKsazQqAnO5zMGW28rNOYv7zVTnM



Scale: 3/8"=1'

Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]								
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 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 55 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 13-5-10.
 (lb) - Max Horz 1=114(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-110(LC 12), 6=-110(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=332(LC 19), 6=332(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-300/217, 4-6=-300/217

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-9-5, Exterior(2) 6-9-5 to 11-2-2, Interior(1) 11-2-2 to 13-1-5 zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=110, 6=110.
 - 6) N/A



March 31, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</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 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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss VB3	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507867
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:10:00 2023 Page 1

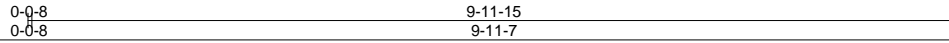
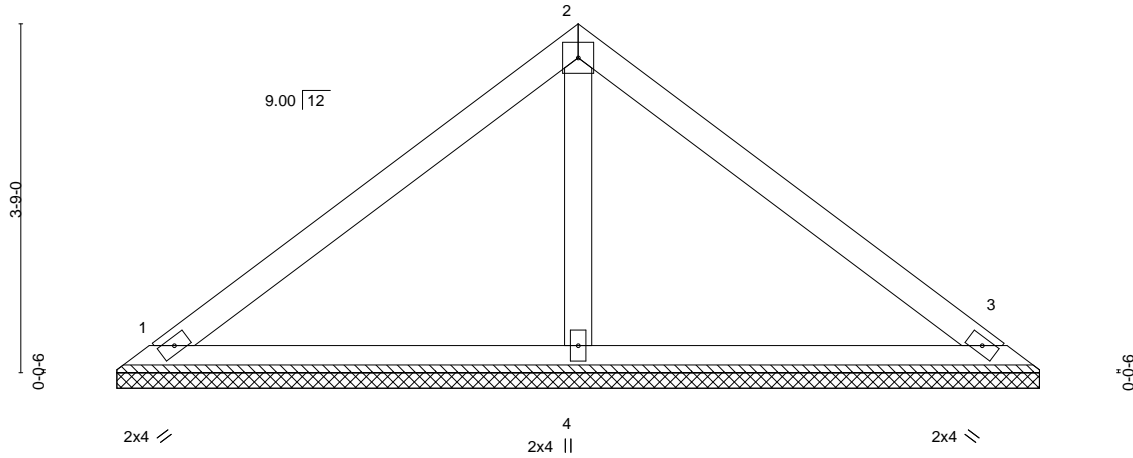
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Job Reference (optional)



4x4 =

Scale = 1:24.8



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 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 36 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

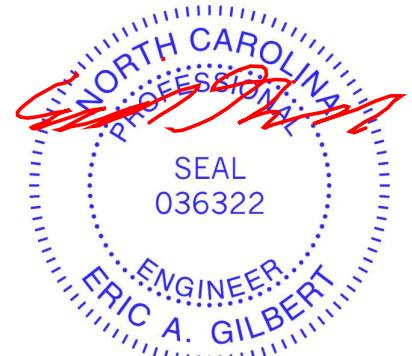
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-10-15, 3=9-10-15, 4=9-10-15
 Max Horz 1=-82(LC 8)
 Max Uplift 1=-22(LC 12), 3=-30(LC 13)
 Max Grav 1=188(LC 1), 3=188(LC 1), 4=353(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 31, 2023

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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 J0323-1472	Truss VB4	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507868
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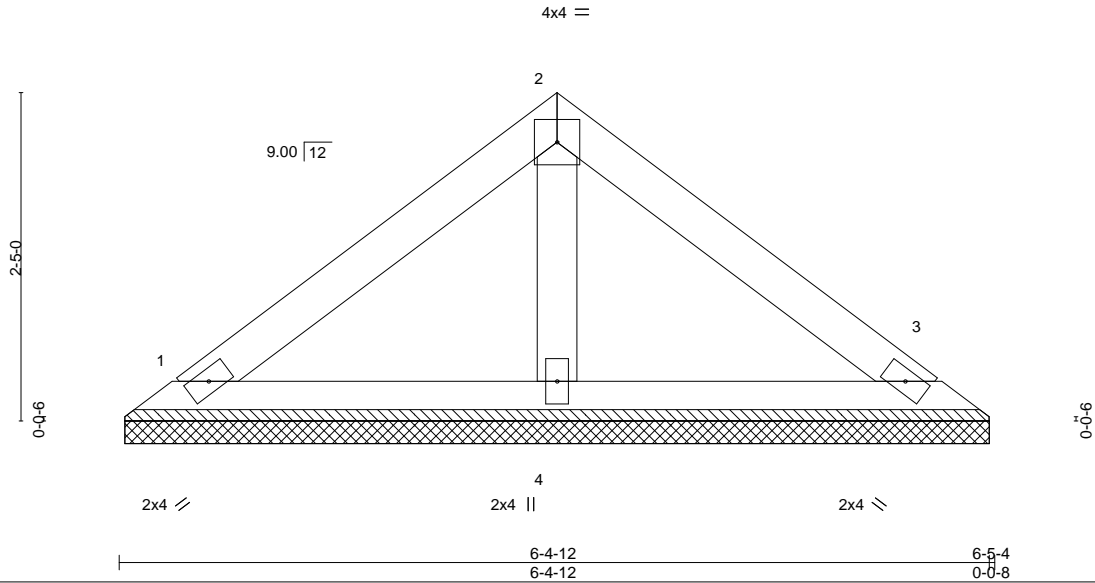
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:10:01 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-6CmtBRj1EZ5NIUnSHcRVFF8GvgJKRIRIhte_?zVTnK



Scale = 1:16.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 22 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 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=6-4-4, 3=6-4-4, 4=6-4-4
 Max Horz 1=50(LC 9)
 Max Uplift 1=-19(LC 12), 3=-24(LC 13)
 Max Grav 1=125(LC 1), 3=125(LC 1), 4=195(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 31, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</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 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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0323-1472	Truss VB5	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507869
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:10:03 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-3buec6szYsppc3eAZievagKUAiM9CL2j?MI2uzVTnl



Scale = 1:8.2

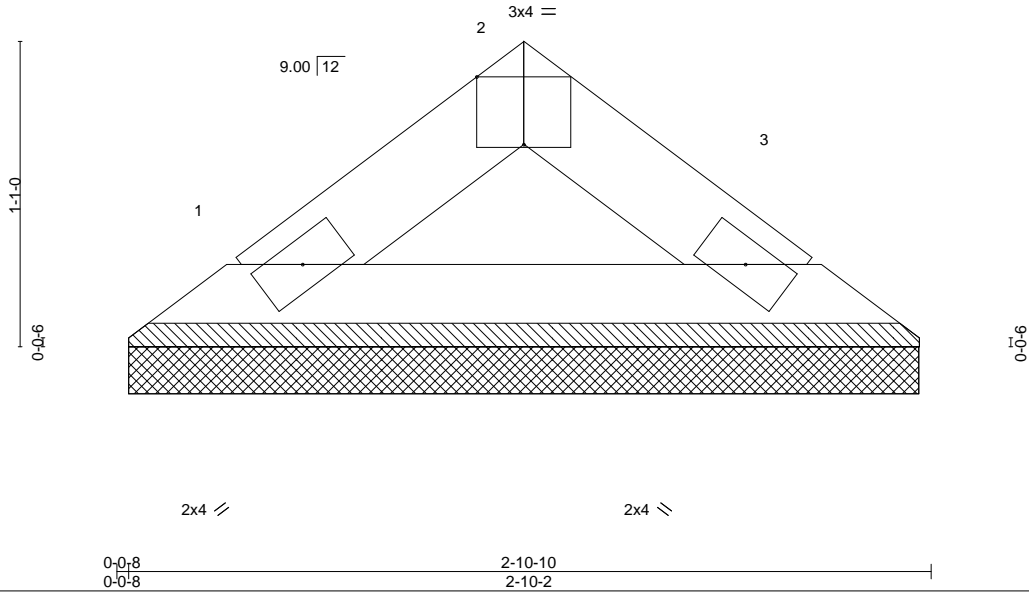


Plate Offsets (X,Y)--	[2:0-2-0,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.01	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P				
							PLATES MT20
							GRIP 244/190
							Weight: 8 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1

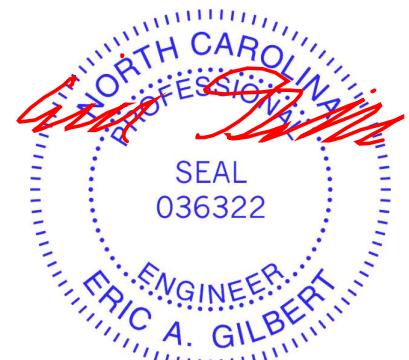
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-10-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-9-10, 3=2-9-10
 Max Horz 1=-18(LC 8)
 Max Uplift 1=-4(LC 12), 3=-4(LC 13)
 Max Grav 1=80(LC 1), 3=80(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) N/A



March 31, 2023

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 J0323-1472	Truss VC1	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507870
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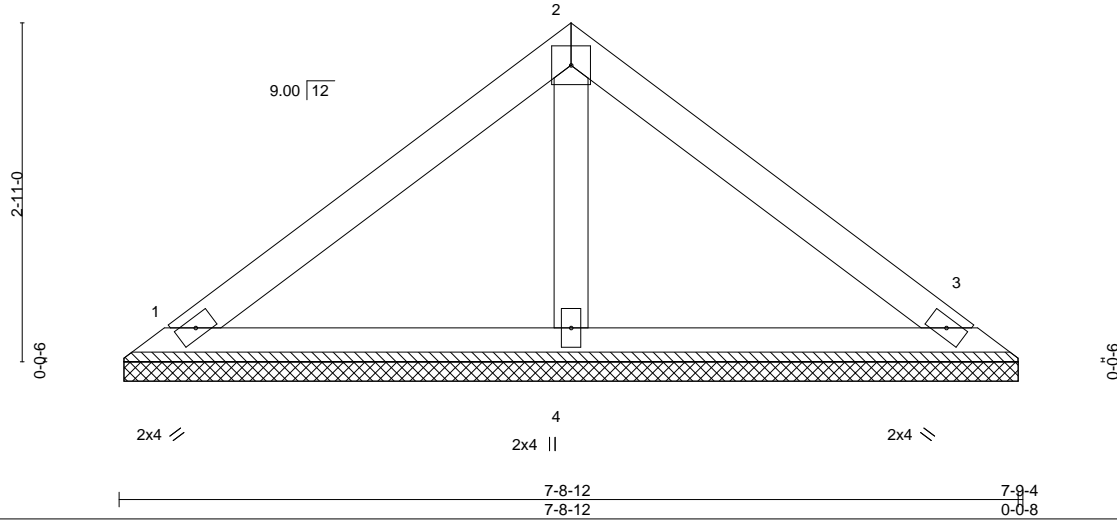
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:10:04 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-XnS0pStcJ9xgECDM7Q987tdY6hXxoxT_f6JaKzVTnH



4x4 =

Scale = 1:19.8



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 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 28 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

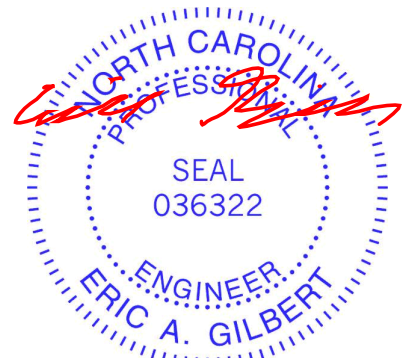
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-8-4, 3=7-8-4, 4=7-8-4
 Max Horz 1=62(LC 8)
 Max Uplift 1=24(LC 12), 3=30(LC 13)
 Max Grav 1=155(LC 1), 3=155(LC 1), 4=242(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 31, 2023

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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

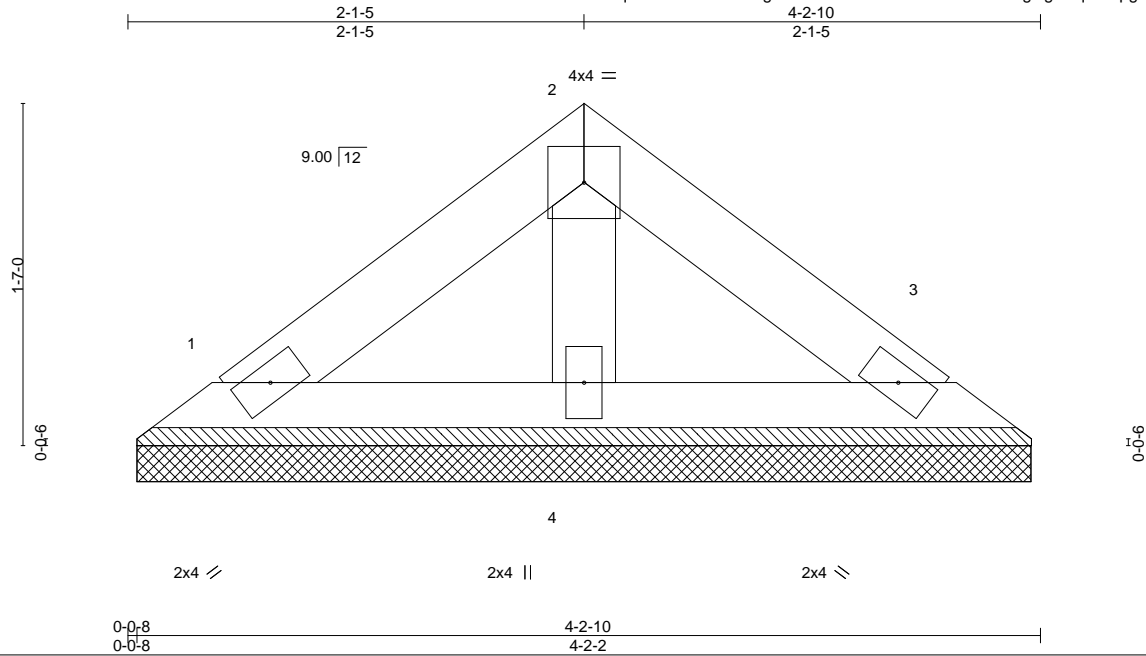
Job J0323-1472	Truss VC2	Truss Type VALLEY	Qty 1	Ply 1	Watermark/Lot 89 South Creek/Harnett 157507871
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Mar 31 08:10:05 2023 Page 1

ID:72Rk7VqdTmkJWHwdWE6g2Zz706C-?z0O1ouE4T3XrMoZh7gNg5QqLW2pgFQ0Drs7mzVTnG

Job Reference (optional)



Scale = 1:10.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

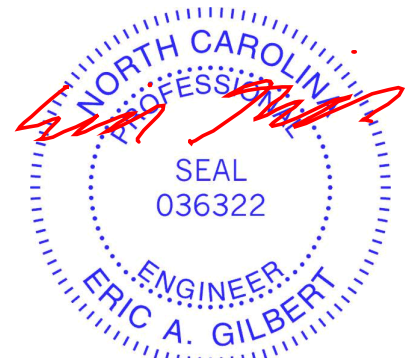
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-1-10, 3=4-1-10, 4=4-1-10
 Max Horz 1=30(LC 9)
 Max Uplift 1=12(LC 12), 3=14(LC 13)
 Max Grav 1=75(LC 1), 3=75(LC 1), 4=117(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) N/A



March 31, 2023

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



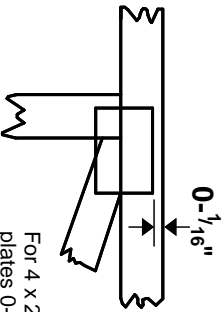
818 Soundside Road
 Edenton, NC 27932

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/TFP 1: 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/TFP 1 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.