

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0323-1467  
Lot 93 South Creek

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: I57502170 thru I57502199

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	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502170
J0323-1467	A1	ROOF SPECIAL	3	1		

Comtech, Inc. Fayetteville, NC - 28314,

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ID:L1J54eQhkyo6whVlnXZxPFzEJO5-xNf\_b2hYN8v86vIS2OF4AR0m324oV2Jlk2LgYkzVgqg

1-3-0	8-1-12	18-11-8	26-8-5	31-6-1	32-3-10	37-9-4	39-2-6	46-11-0	48-2-0
1-3-0	8-1-12	10-9-12	7-8-13	4-9-12	0-9-9	5-5-10	1-5-2	7-8-10	1-3-0

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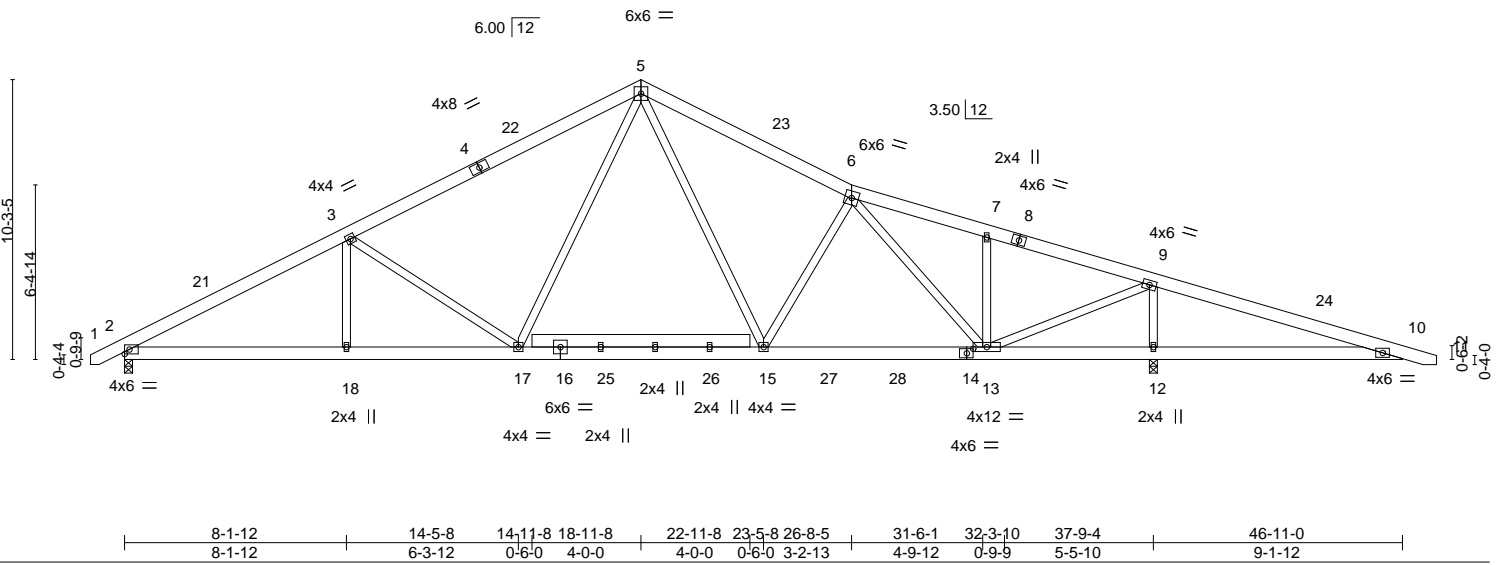


Plate Offsets (X,Y)-- [14:0-2-13,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.14 15-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.23 15-17 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 17 >999 240		
				Weight: 341 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 19-20: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=-132(LC 10)  
 Max Uplift 2=-111(LC 12), 12=-384(LC 9)  
 Max Grav 2=1476(LC 1), 12=2400(LC 1)

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

TOP CHORD 2-3=-2464/421, 3-5=-1946/386, 5-6=-1859/311, 6-7=-1281/115, 7-9=-1340/85,  
 9-10=-1099/1300  
 BOT CHORD 2-18=-244/2170, 17-18=-244/2170, 15-17=0/1384, 13-15=-7/1737, 12-13=-1160/1117,  
 10-12=-1160/1117  
 WEBS 3-18=0/294, 9-13=-746/2349, 9-12=-2159/799, 3-17=-736/300, 5-17=-86/691,  
 5-15=-36/633, 6-13=-832/456

**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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 47-11-1 zone; cantilever right 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 111 lb uplift at joint 2 and 384 lb uplift at joint 12.



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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



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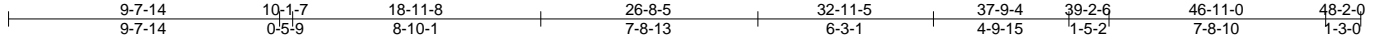


Job J0323-1467	Truss A2	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 93 South Creek Job Reference (optional)	157502172
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Comtech, Inc. Fayetteville, NC - 28314,

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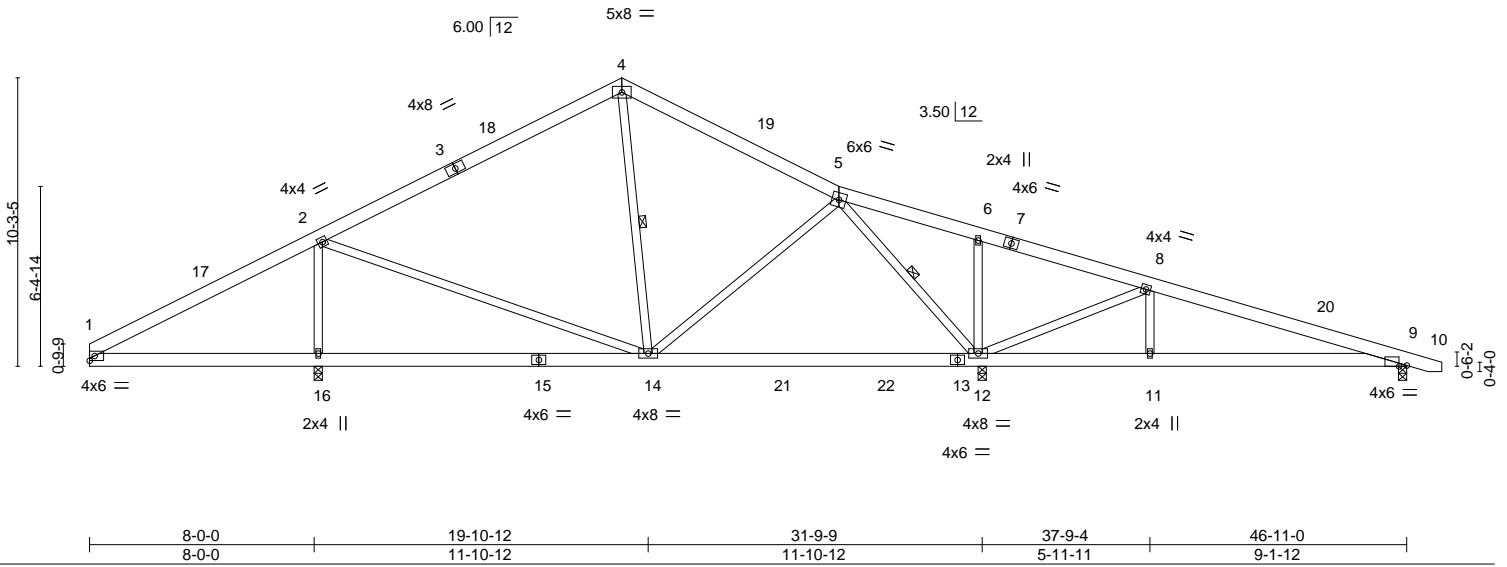


Plate Offsets (X,Y)--	[9:0-3-5,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.17	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.25	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	9-11	>999	240		
							Weight: 313 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 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-12, 4-14

**REACTIONS.** (size) 16=0-3-8, 12=0-3-8, 9=0-3-8  
 Max Horz 16=-133(LC 8)  
 Max Uplift 16=-122(LC 12), 12=-298(LC 9), 9=-225(LC 9)  
 Max Grav 16=1587(LC 1), 12=1730(LC 1), 9=504(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-488/609, 2-4=-558/124, 4-5=-519/115, 5-6=-297/606, 6-8=-352/606, 8-9=-509/373  
 BOT CHORD 1-16=-404/499, 14-16=-404/504, 12-14=0/311, 11-12=-265/420, 9-11=-265/420  
 WEBS 2-16=-1352/636, 2-14=-247/807, 5-14=-4/277, 8-12=-1015/810, 8-11=-289/297,  
 6-12=-297/130, 5-12=-1091/323

- 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 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 47-11-1 zone; cantilever left exposed ; porch right 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 122 lb uplift at joint 16, 298 lb uplift at joint 12 and 225 lb uplift at joint 9.



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Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502173
J0323-1467	A3	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

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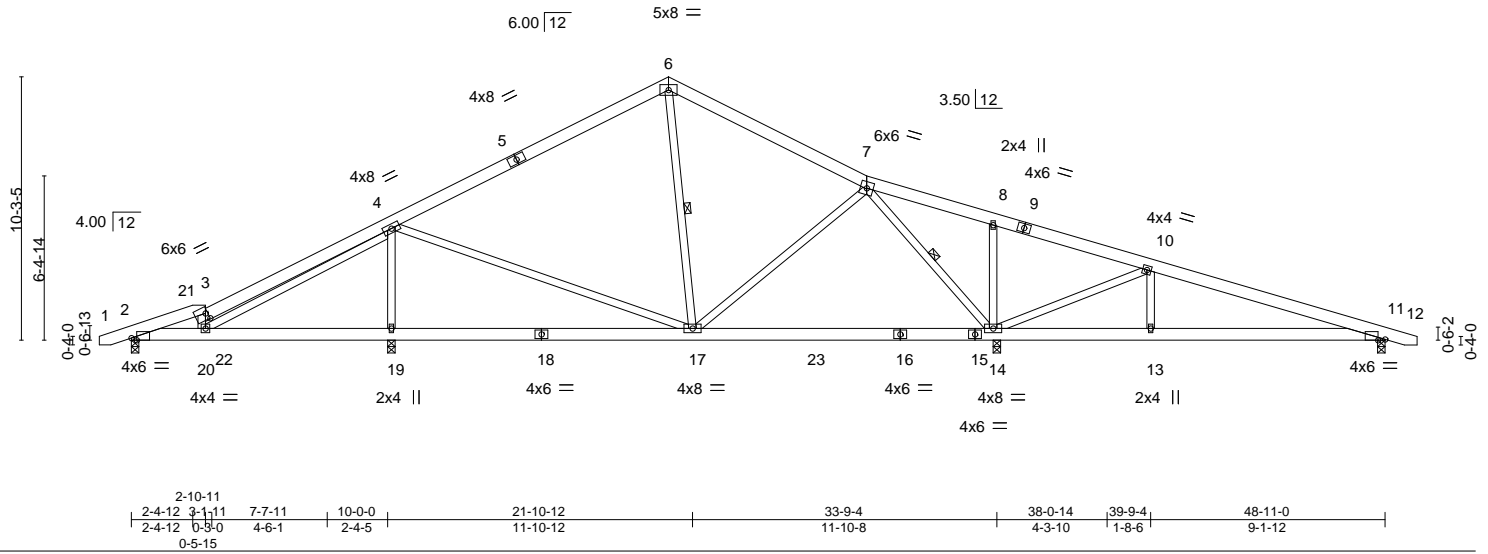


Plate Offsets (X,Y)-- [2:0-2.8,Edge], [3:0-1-0,0-3-0], [11:0-3-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.16	14-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.24	14-17	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	11-13	>999	240		
							Weight: 339 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 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-14, 6-17

**REACTIONS.**

All bearings 0-3-8.  
 (lb) - Max Horz 2=-120(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-125(LC 4), 14=-280(LC 24), 19=-163(LC 8), 11=-222(LC 24)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=349(LC 1), 14=1777(LC 1), 19=1403(LC 1), 11=508(LC 20)

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

TOP CHORD 2-3=-402/131, 3-4=-477/188, 4-6=-647/134, 6-7=-583/111, 7-8=-101/577, 8-10=-157/578, 10-11=-522/239  
 BOT CHORD 2-20=-54/353, 14-17=0/383, 13-14=-161/433, 11-13=-161/433  
 WEBS 4-17=0/554, 7-17=0/293, 7-14=-1148/111, 10-14=-1018/473, 10-13=-118/299, 3-20=-276/103, 4-19=-1167/281, 8-14=-299/126, 4-20=-279/570

**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); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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 125 lb uplift at joint 2, 280 lb uplift at joint 14, 163 lb uplift at joint 19 and 222 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 35 lb down and 27 lb up at 2-4-12 on top chord, and 13 lb down and 34 lb up at 2-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-6=-60, 6-7=-60, 7-12=-60, 2-11=-20  
 Concentrated Loads (lb)  
 Vert: 22=-2(F)



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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502174
J0323-1467	A4	ROOF SPECIAL	1	1		

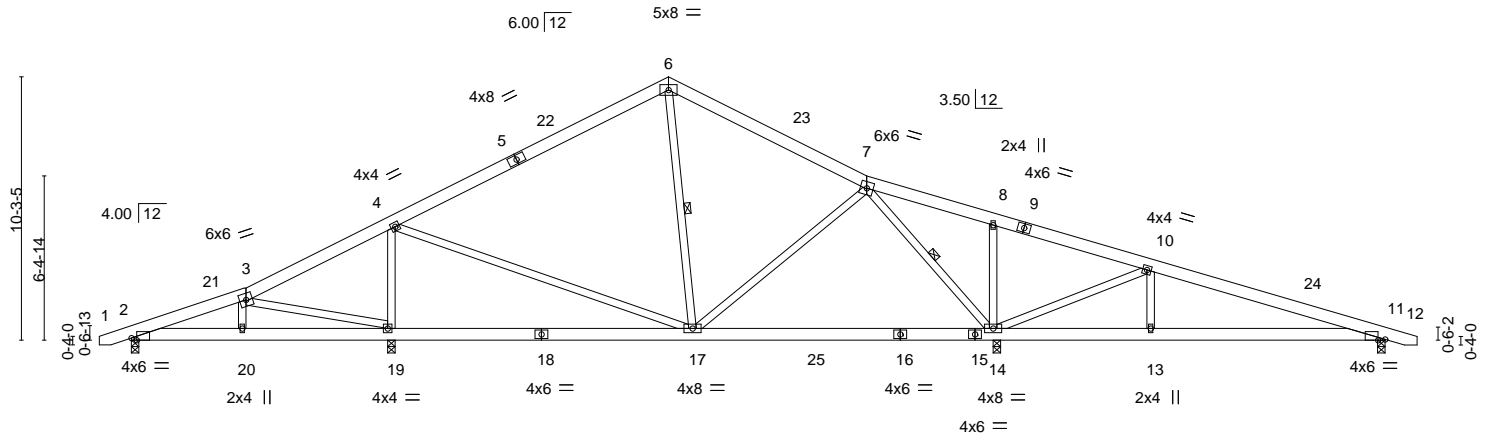
Comtech, Inc. Fayetteville, NC - 28314,

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-1-3-0	4-4-12	4-5-11	12-1-12	12-8-9	20-11-8	28-8-5	34-11-5	39-9-4	41-2-6	48-11-0	50-2-0
1-3-0	4-4-12	0-0-15	7-8-1	0-6-13	8-2-15	7-8-13	6-3-1	4-9-15	1-5-2	7-8-10	1-3-0

Scale = 1:89.9



4-4-12	4-5-11	10-0-0	21-10-12	33-9-4	39-9-4	48-11-0
4-4-12	0-0-15	5-6-5	11-10-12	11-10-8	6-0-0	9-1-12

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [11:0-3-5,Edge]

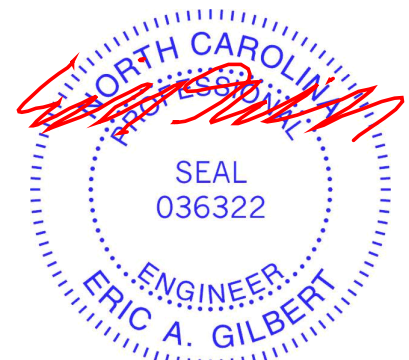
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.16 14-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.23 14-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 11-13 >999 240		
				Weight: 336 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, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 17-19.
	WEBS 1 Row at midpt 7-14, 6-17

**REACTIONS.** All bearings 0-3-8.  
 (lb) - Max Horz 2=-120(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-157(LC 8), 19=-136(LC 12), 14=-284(LC 9), 11=-223(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=396(LC 1), 19=1335(LC 1), 14=1792(LC 1), 11=511(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-459/314, 4-6=-664/154, 6-7=-600/143, 7-8=-270/566, 8-10=-326/567, 10-11=-530/394  
 BOT CHORD 2-20=-221/386, 19-20=-203/380, 14-17=0/393, 13-14=-285/441, 11-13=-285/441  
 WEBS 3-19=-396/447, 4-17=-36/485, 7-17=-24/300, 10-14=-1018/813, 10-13=-290/299, 4-19=-1020/389, 8-14=-299/132, 7-14=-1169/375

- 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) and C-C Exterior(2) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch left and right 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 157 lb uplift at joint 2, 136 lb uplift at joint 19, 284 lb uplift at joint 14 and 223 lb uplift at joint 11.



March 31, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502175
J0323-1467	A5	ROOF SPECIAL	4	1		

Comtech, Inc., Fayetteville, NC - 28314,

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1-3-0	4-7-8	12-1-12	12-9-8	20-11-8	28-8-5	33-7-8	41-2-6	44-3-4	48-11-0	50-2-0
1-3-0	4-7-8	7-6-4	0-7-12	8-2-0	7-8-13	4-11-3	7-6-14	3-0-14	4-7-12	1-3-0

Scale = 1:89.9

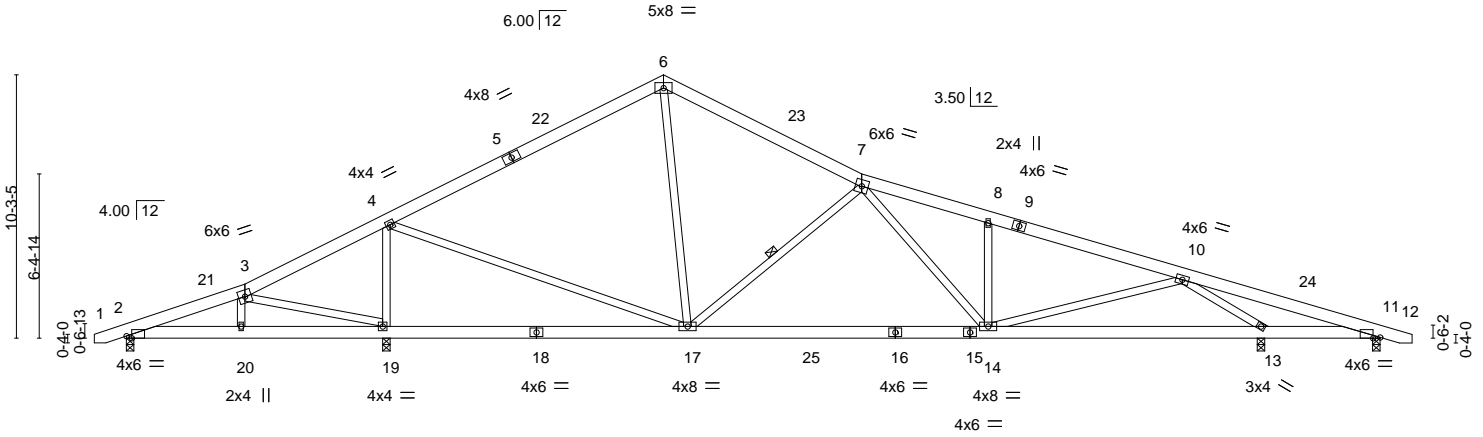


Plate Offsets (X,Y)--	[2:0-2-8,Edge], [11:0-3-5,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.21 14-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.34 14-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 14-17 >999 240	Weight: 340 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-0-15 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 7-17

**REACTIONS.** All bearings 0-3-8.  
 (lb) - Max Horz 2=-120(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-168(LC 8), 19=-127(LC 12), 11=-129(LC 9), 13=-126(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 11 except 2=328(LC 23), 19=1998(LC 1), 13=1716(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-254/268, 3-4=-171/414, 4-6=-1235/320, 6-7=-1219/327, 7-8=-2208/471, 8-10=-2236/409, 10-11=-159/715  
 BOT CHORD 17-19=-263/256, 14-17=-194/1748, 13-14=-305/1517, 11-13=-617/198  
 WEBS 3-19=-349/432, 4-17=-225/1309, 7-17=-992/320, 4-19=-1692/543, 8-14=-356/165, 7-14=-96/566, 10-14=0/662, 10-13=-2584/605, 6-17=-10/560

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch left and right 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 168 lb uplift at joint 2, 127 lb uplift at joint 19, 129 lb uplift at joint 11 and 126 lb uplift at joint 13.



March 31, 2023

Job J0323-1467	Truss A5A	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 93 South Creek Job Reference (optional)	157502176
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:11 2023 Page 1

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-1-3-0	4-7-8	12-1-12	12-9-8	20-11-8	28-8-5	33-7-8	39-9-4	44-3-4	48-11-0	50-2-0
1-3-0	4-7-8	7-6-4	0-7-12	8-2-0	7-8-13	4-11-3	6-1-12	4-6-0	4-7-12	1-3-0

Scale = 1:89.9

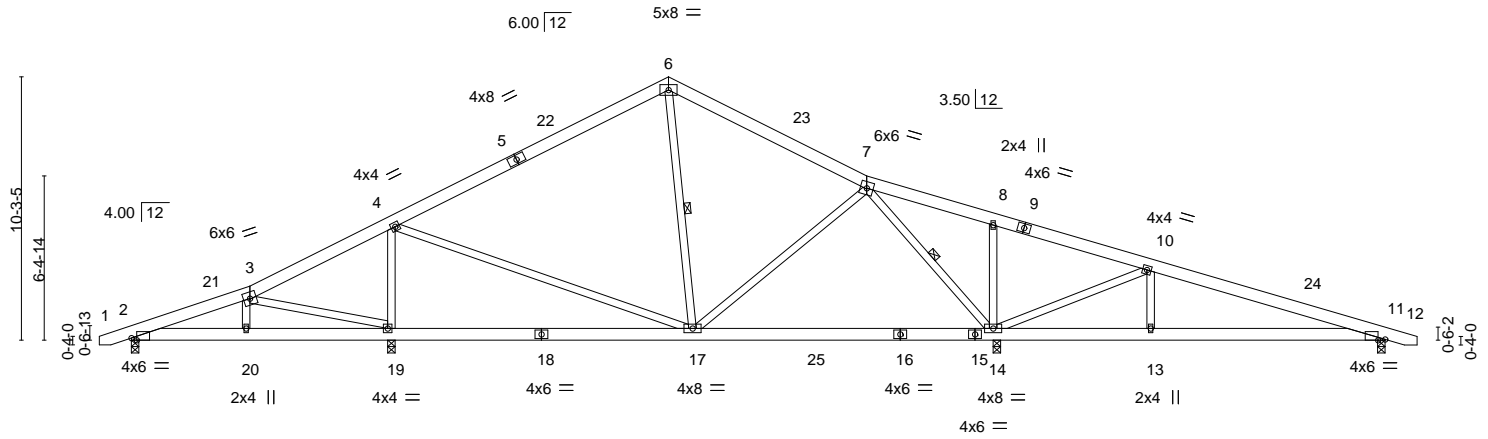


Plate Offsets (X,Y)--	[2:0-2-8,Edge], [11:0-3-5,Edge]
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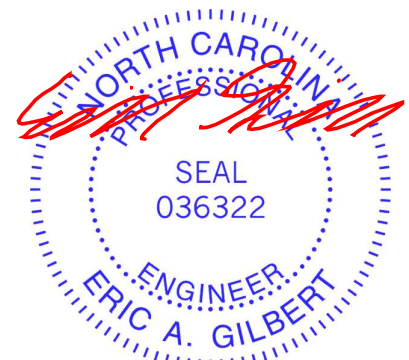
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.16 14-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.23 14-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 11-13 >999 240		
				Weight: 336 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, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 17-19.
	WEBS 1 Row at midpt 7-14, 6-17

**REACTIONS.** All bearings 0-3-8.  
 (lb) - Max Horz 2=-120(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-159(LC 8), 19=-136(LC 12), 14=-284(LC 9), 11=-223(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=399(LC 1), 19=1332(LC 1), 14=1793(LC 1), 11=511(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-452/306, 4-6=-665/155, 6-7=-602/145, 7-8=-269/566, 8-10=-325/567, 10-11=-530/394  
 BOT CHORD 2-20=-212/377, 19-20=-195/371, 14-17=0/393, 13-14=-286/441, 11-13=-286/441  
 WEBS 3-19=-384/436, 4-17=-33/482, 7-17=-24/300, 4-19=-1014/386, 8-14=-299/132, 7-14=-1170/376, 10-14=-1018/814, 10-13=-290/299

- 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) -1-0-5 to 3-4-8, Interior(1) 3-4-8 to 20-11-8, Exterior(2) 20-11-8 to 25-4-5, Interior(1) 25-4-5 to 49-11-1 zone; porch 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 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2, 136 lb uplift at joint 19, 284 lb uplift at joint 14 and 223 lb uplift at joint 11.



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<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY <b>TRESCO</b> A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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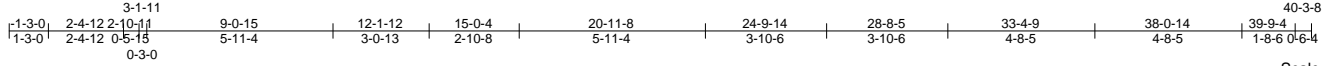
Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502178
J0323-1467	A7	ROOF SPECIAL GIRDER	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:15 2023 Page 1

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-TSd2yWtab2ws1NWX\_IXrphUGVvcFNkePXDW6pzVgqQ

Job Reference (optional)



Scale = 1:73.5

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-1-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL)	-0.17	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT)	-0.28	12-14	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.49	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.04	16-17	>999		
							Weight: 295 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 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 7-14

**REACTIONS.** (size) 2=0-3-8, 16=0-3-8, 11=0-3-8  
 Max Horz 2=178(LC 8)  
 Max Uplift 2=-120(LC 4), 16=-166(LC 8), 11=-90(LC 28)  
 Max Grav 2=327(LC 19), 16=1803(LC 1), 11=1147(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-341/118, 3-4=-409/174, 4-6=-1072/158, 6-7=-1038/137, 7-8=-1426/172,  
 8-9=-1432/116, 9-11=-1094/114  
 BOT CHORD 2-17=-115/294, 12-14=-79/1310  
 WEBS 4-14=-5/1046, 7-14=-642/192, 9-12=-70/1415, 3-17=-263/100, 4-16=-1567/285,  
 8-12=-363/162, 4-17=-275/553, 6-14=0/450

- 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); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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 120 lb uplift at joint 2, 166 lb uplift at joint 16 and 90 lb uplift at joint 11.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 35 lb down and 27 lb up at 2-4-12 on top chord, and 13 lb down and 34 lb up at 2-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-6=-60, 6-7=-60, 7-9=-60, 2-10=-20  
 Concentrated Loads (lb)  
 Vert: 19=-2(B)



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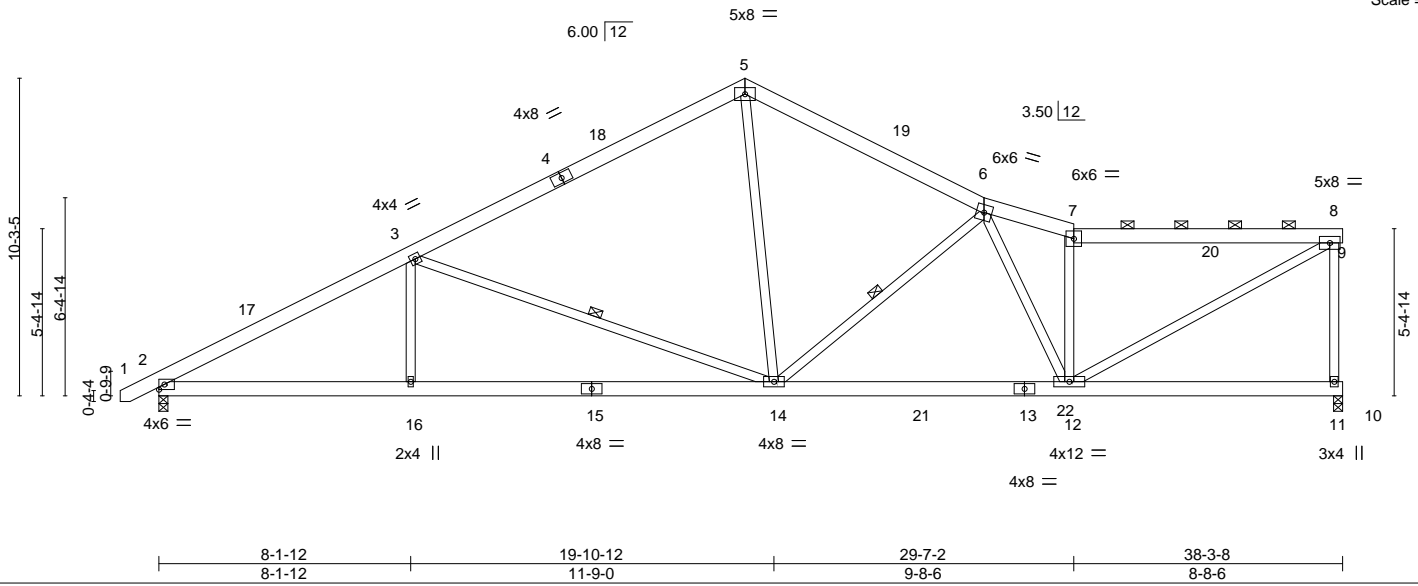
Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502180
J0323-1467	A9	ROOF SPECIAL	1	1		

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Scale = 1:74.5



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.14 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.30 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 14-16 >999 240	Weight: 278 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 4-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-4 max.): 7-9.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-14, 6-14

**REACTIONS.**

(size) 11=0-3-8, 2=0-3-8  
 Max Horz 2=225(LC 12)  
 Max Uplift 11=103(LC 13), 2=101(LC 12)  
 Max Grav 11=1525(LC 1), 2=1590(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2747/521, 3-5=-1803/453, 5-6=-1845/475, 6-7=-2149/473, 7-8=-2053/434, 8-11=-1434/381  
 BOT CHORD 2-16=-574/2333, 14-16=-574/2333, 12-14=-445/2033  
 WEBS 3-16=0/433, 3-14=-952/296, 6-14=-651/212, 7-12=-975/317, 8-12=-487/2327, 5-14=-108/968

**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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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 103 lb uplift at joint 11 and 101 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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



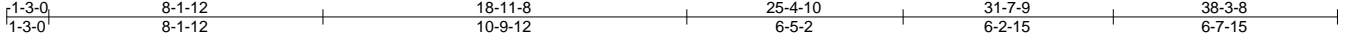
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502181
J0323-1467	A10	ROOF SPECIAL	1	1		

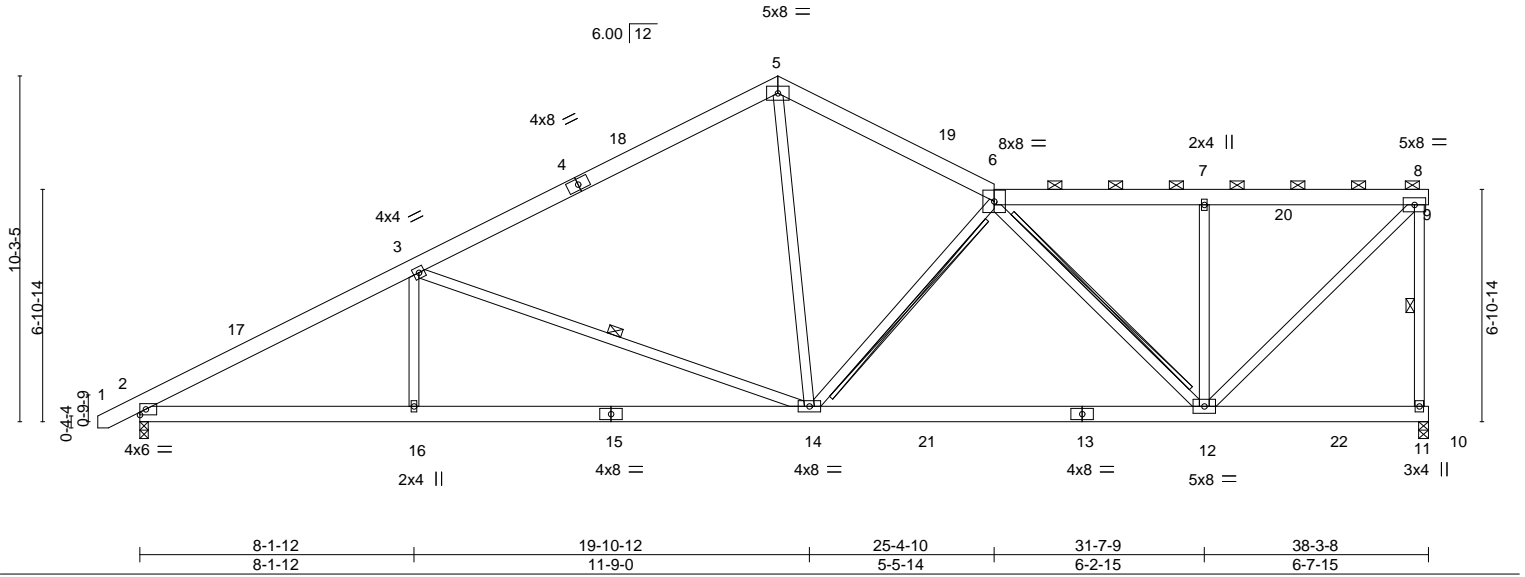
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:00 2023 Page 1

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Scale = 1:68.5



Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502182
J0323-1467	A11	ROOF SPECIAL	2	1		

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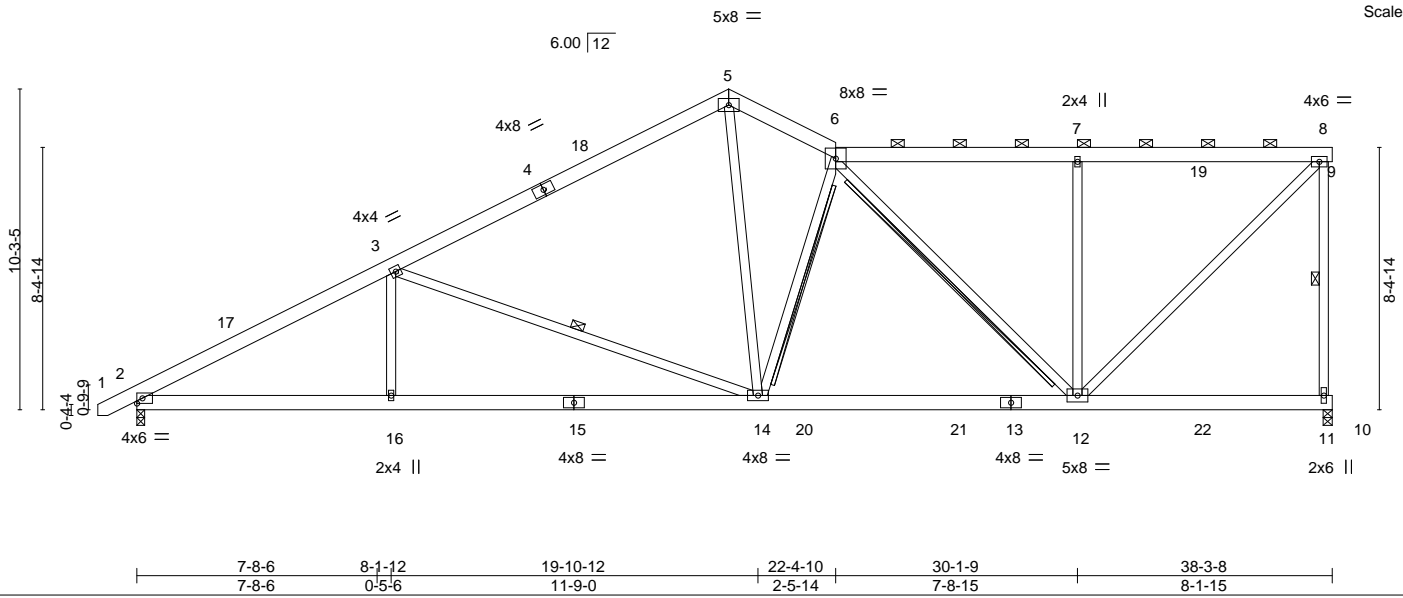
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:01 2023 Page 1

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Job Reference (optional)



Scale = 1:73.8



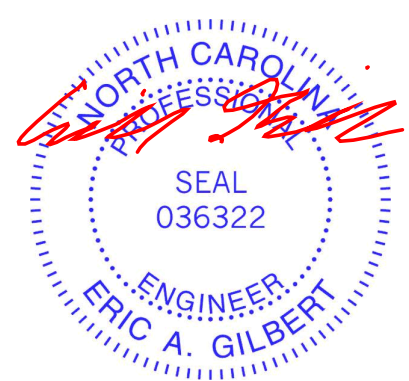
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.17 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.29 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 14-16 >999 240	Weight: 293 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-11, 3-14 T-Brace: 2x4 SPF No.2 - 6-12, 6-14
	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.** (size) 11=0-3-8, 2=0-3-0  
 Max Horz 2=287(LC 12)  
 Max Uplift 11=-119(LC 13), 2=-90(LC 12)  
 Max Grav 11=1645(LC 2), 2=1590(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2753/489, 3-5=-1804/413, 5-6=-1813/475, 6-7=-1303/310, 7-8=-1301/308  
 BOT CHORD 2-16=-667/2340, 14-16=-667/2340, 12-14=-447/1760  
 WEBS 8-11=-1470/415, 3-14=-949/300, 6-12=-697/199, 7-12=-580/286, 8-12=-437/1847, 3-16=0/431, 5-14=-161/1180, 6-14=-602/205

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 22-4-10, Interior(1) 22-4-10 to 38-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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 119 lb uplift at joint 11 and 90 lb uplift at joint 2.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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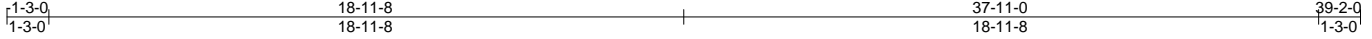


Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502184
J0323-1467	B1GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:68.8

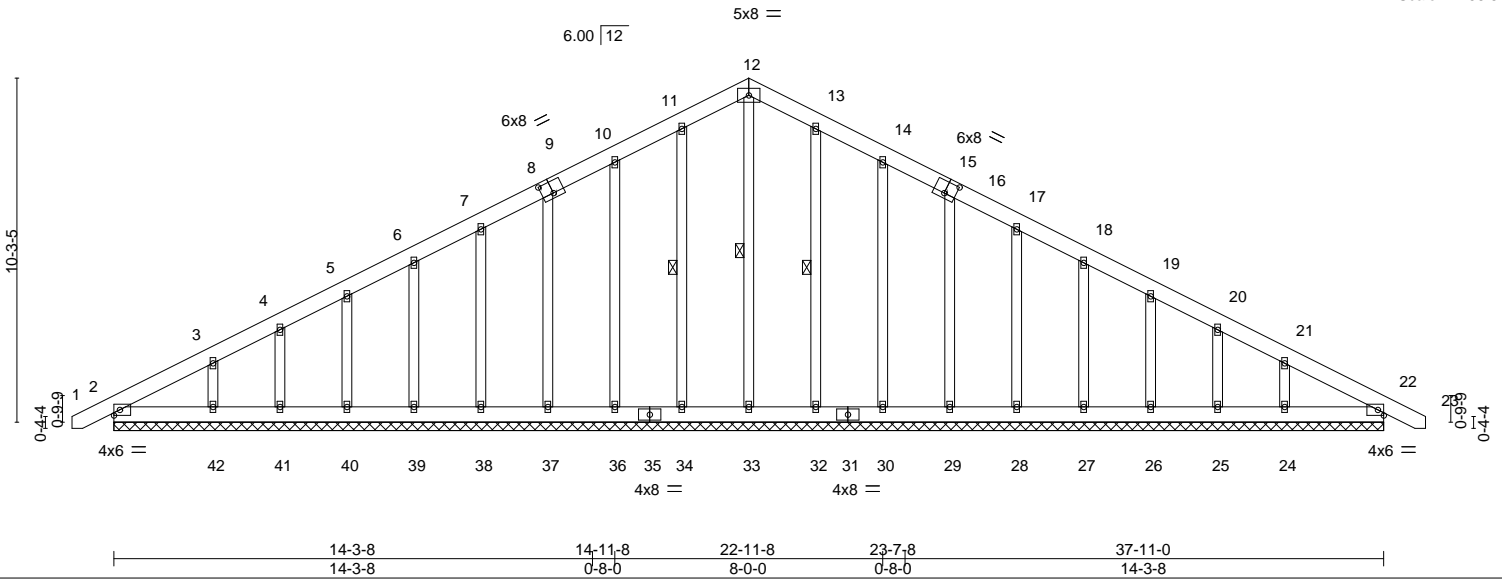


Plate Offsets (X,Y)-- [9:0-4-0,0-4-4], [15:0-4-0,0-4-4]

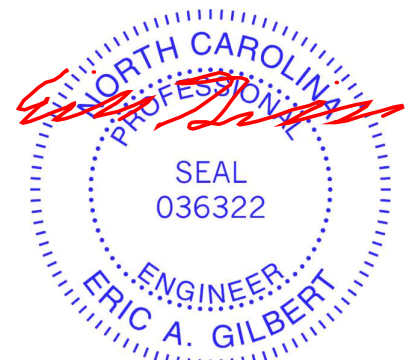
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) 0.00	22	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	22	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	22	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 325 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.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 12-33, 11-34, 13-32

**REACTIONS.** All bearings 37-11-0.  
 (lb) - Max Horz 2=203(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except 42=-121(LC 12), 24=-114(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 22, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-265/95, 10-11=-118/295, 11-12=-132/336, 12-13=-132/336, 13-14=-118/295

- 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) zone;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 requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 42=121, 24=114.



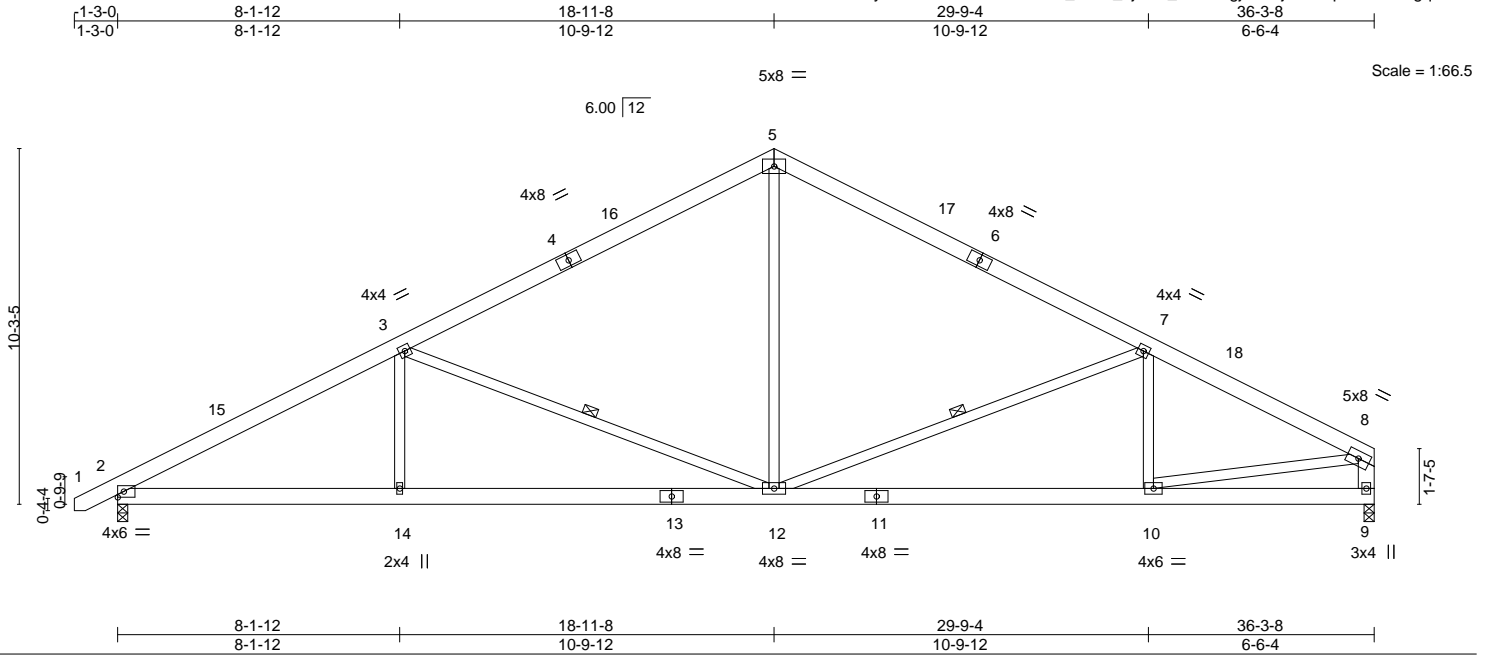
March 31, 2023



Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502185
J0323-1467	B2	COMMON	9	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:23 2023 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.08 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.20 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 12-14 >999 240	Weight: 254 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-6 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*	WEBS 1 Row at midpt 3-12, 7-12
8-9: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8  
 Max Horz 2=149(LC 12)  
 Max Uplift 2=-106(LC 12), 9=-80(LC 13)  
 Max Grav 2=1512(LC 1), 9=1435(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2573/512, 3-5=-1688/444, 5-7=-1686/453, 7-8=-2102/467, 8-9=-1370/346  
 BOT CHORD 2-14=-405/2180, 12-14=-405/2180, 10-12=-340/1830  
 WEBS 3-14=0/394, 3-12=-913/298, 5-12=-65/832, 7-12=-586/228, 8-10=-322/1719

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-0-12 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=106.



March 31, 2023

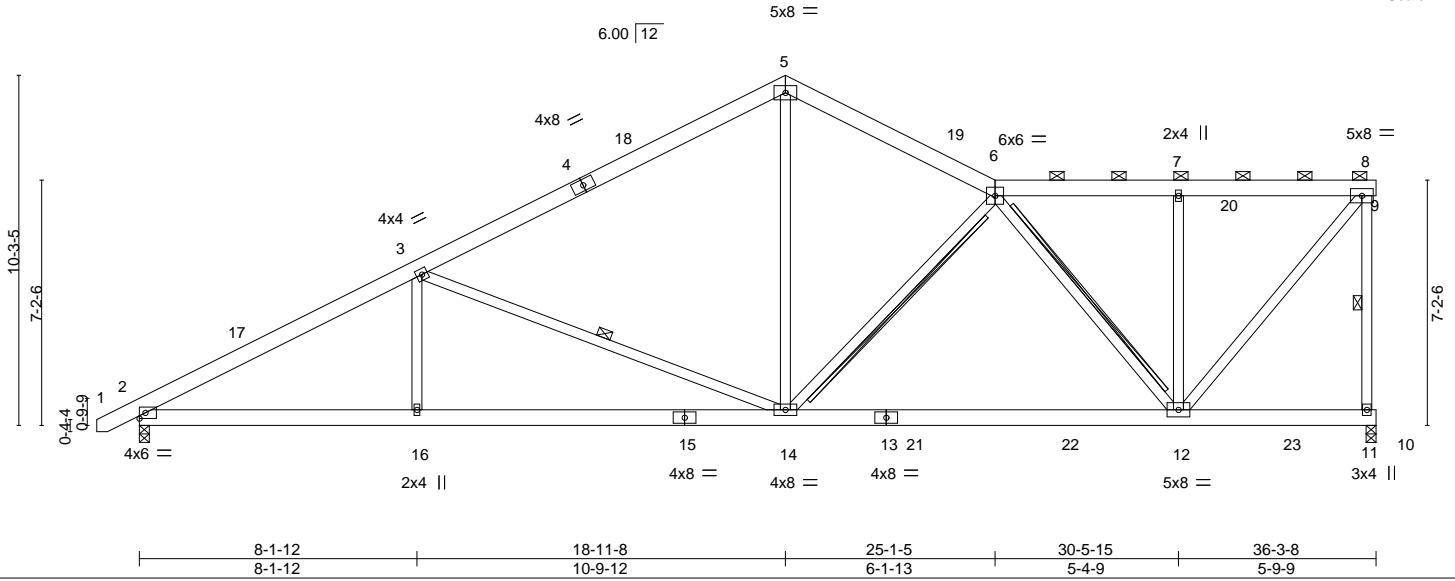
Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502186
J0323-1467	B3	ROOF SPECIAL	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:24 2023 Page 1  
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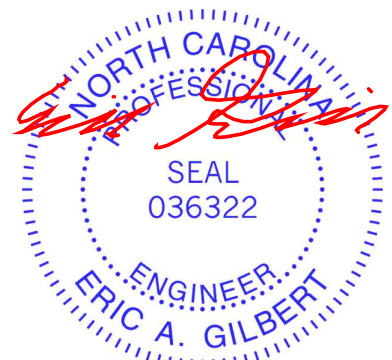
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.48	Vert(LL) -0.20	12-14	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(CT) -0.33	12-14	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Horz(CT) 0.05	11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.06	14-16	>999	240		
	Code IRC2015/TPI2014						Weight: 273 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	1 Row at midpt 8-11, 3-14
	T-Brace: 2x4 SPF No.2 - 6-14, 6-12
	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.** (size) 11=0-3-8, 2=0-3-8  
 Max Horz 2=262(LC 12)  
 Max Uplift 11=100(LC 13), 2=94(LC 12)  
 Max Grav 11=1506(LC 2), 2=1510(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2573/481, 3-5=-1680/404, 5-6=-1588/423, 6-7=-1079/234, 7-8=-1078/235, 8-11=-1431/362  
 BOT CHORD 2-16=-604/2182, 14-16=-604/2182, 12-14=-402/1604  
 WEBS 3-16=0/390, 3-14=-911/308, 5-14=-86/902, 6-14=-422/157, 6-12=-902/273, 7-12=-374/195, 8-12=-366/1693

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 36-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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) 2 except (jt=lb) 11=100.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 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	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502187
J0323-1467	B3GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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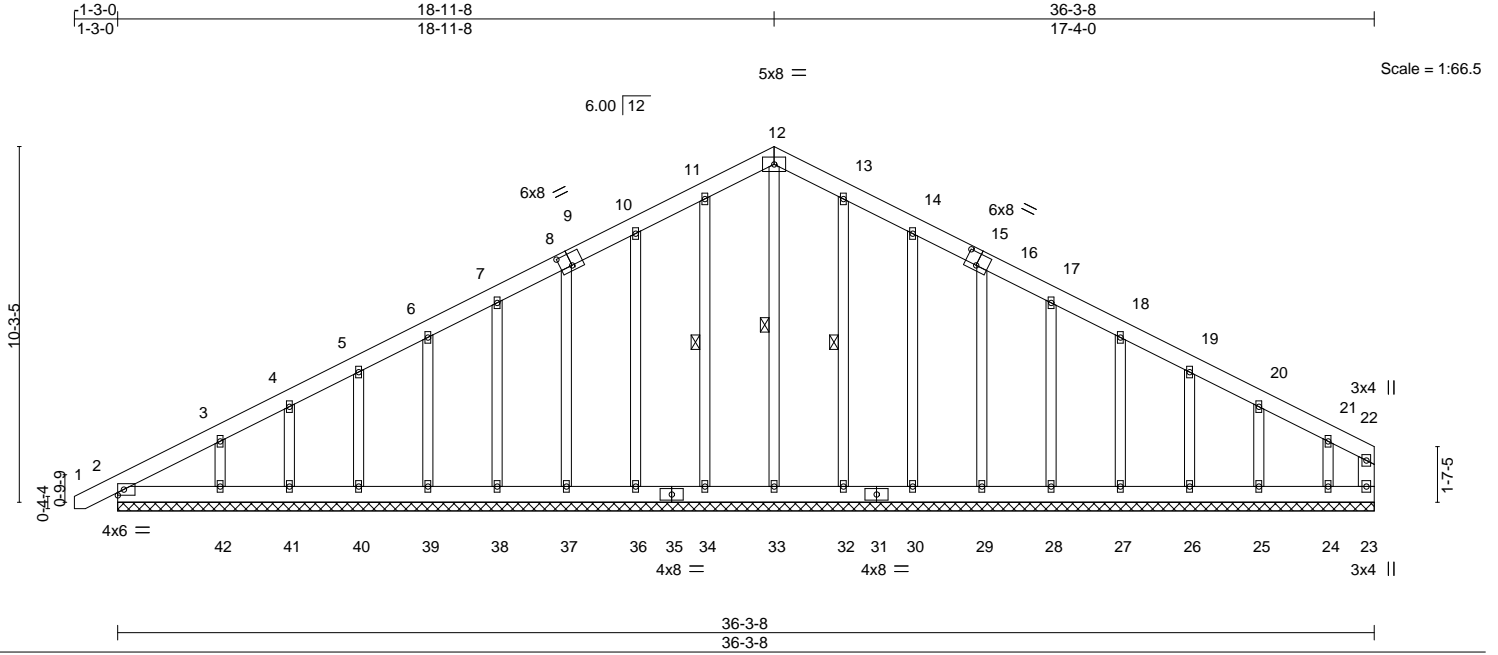


Plate Offsets (X,Y)-- [9:0-4-0,0-4-4], [15:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	23	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 316 lb	FT = 20%

**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 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 12-33, 11-34, 13-32

**REACTIONS.**

All bearings 36-3-8.  
 (lb) - Max Horz 2=240(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except 42=121(LC 12), 24=204(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 23, 33, 34, 36, 37, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD 2-3=-265/115, 8-10=-100/260, 10-11=-123/312, 11-12=-136/351, 12-13=-136/351, 13-14=-123/312

**NOTES-**

- Unbalanced roof live loads HAVING 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) zone; 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 requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 34, 36, 37, 38, 39, 40, 41, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 42=121, 24=204.



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

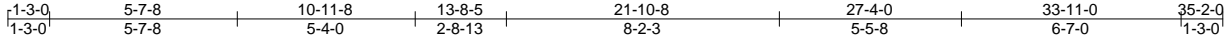


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502188
J0323-1467	C1	ROOF SPECIAL	6	1		

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:28 2023 Page 1

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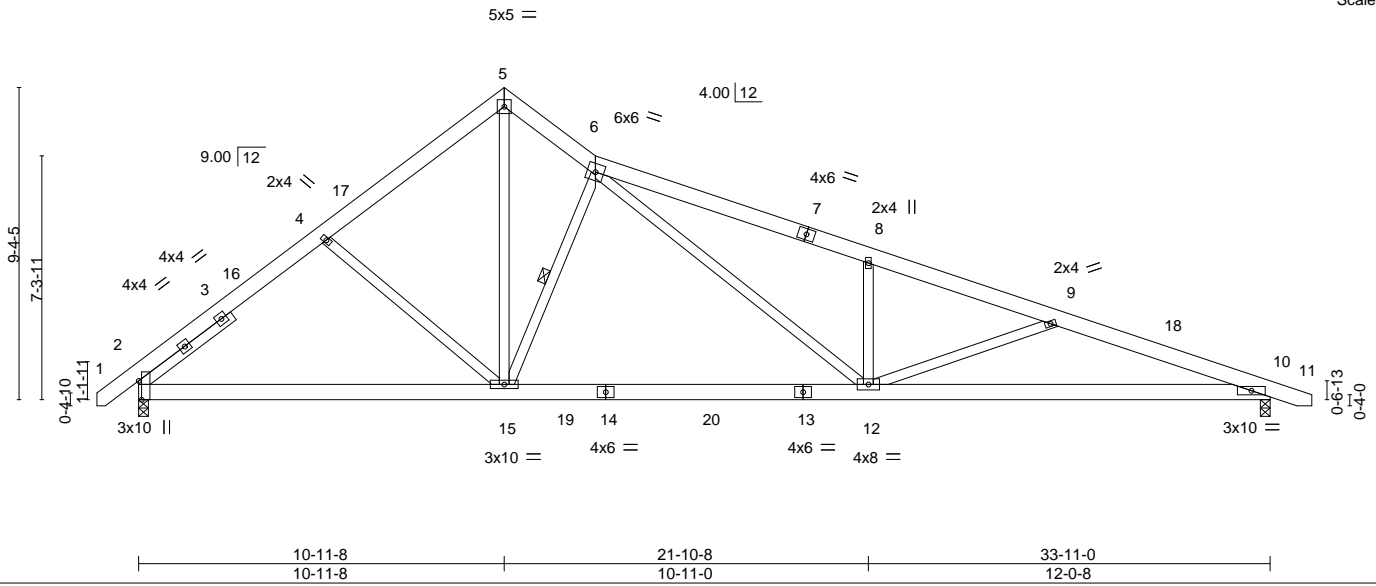


Plate Offsets (X,Y)--	[2:0-6-13,Edge]
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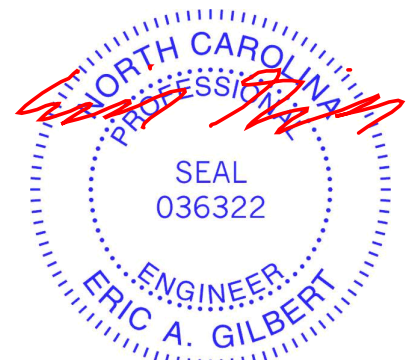
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.23	12-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.37	12-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.06	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	12	>999	240		
							Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-15 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 6-15
SLIDER Left 2x4 SP No.2 3-6-1	

**REACTIONS.** (size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=-228(LC 10)  
 Max Uplift 2=-55(LC 12), 10=-142(LC 9)  
 Max Grav 2=1418(LC 1), 10=1421(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1787/384, 4-5=-1524/377, 5-6=-1501/424, 6-8=-2861/619, 8-9=-2823/517, 9-10=-3241/658  
 BOT CHORD 2-15=-173/1390, 12-15=-148/1641, 10-12=-530/3011  
 WEBS 4-15=-281/215, 5-15=-341/1516, 6-15=-1230/368, 6-12=-244/1325, 8-12=-464/228, 9-12=-411/212

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-1-8 to 3-3-5, Interior(1) 3-3-5 to 10-11-8, Exterior(2) 10-11-8 to 13-8-5, Interior(1) 13-8-5 to 34-11-5 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) 2 except (jt=lb) 10=142.



March 31, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502189
J0323-1467	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:29 2023 Page 1

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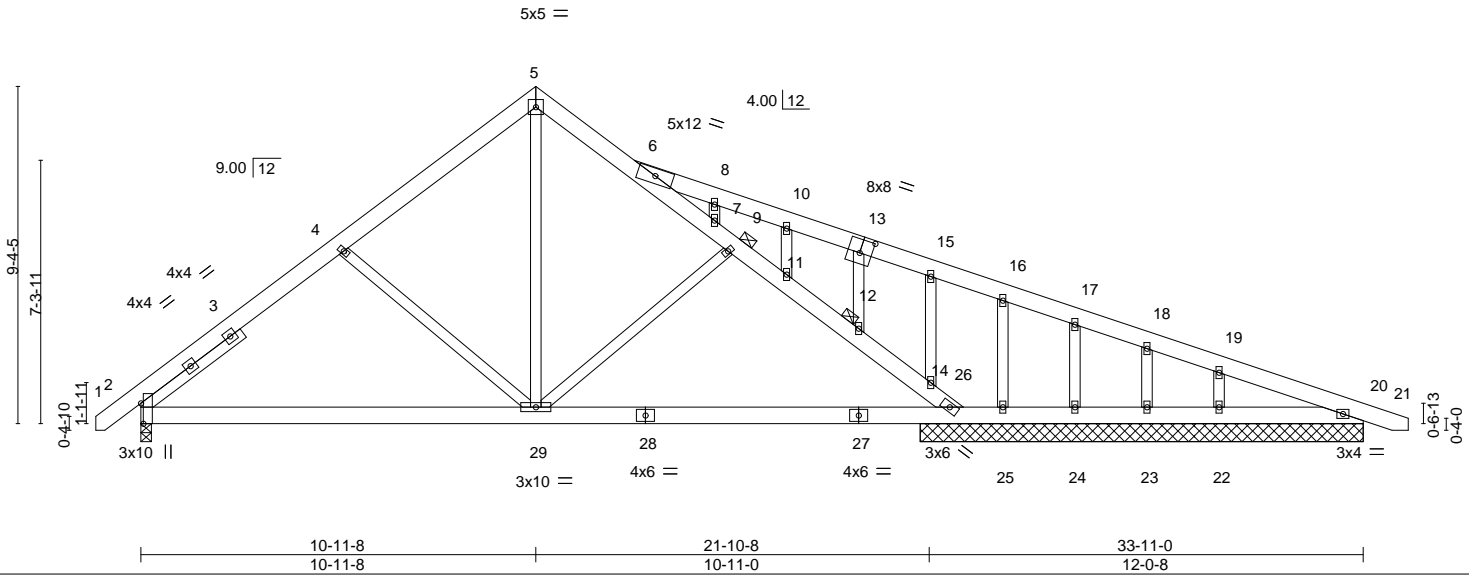


Plate Offsets (X,Y)-- [2:0-6-13,Edge], [13:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.07	2-29	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.14	2-29	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02	26	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	2-29	>999	240			
								Weight: 264 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 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.2	10-0-0 oc bracing: 2-29,26-29.
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 9, 12
SLIDER Left 2x4 SP No.2 3-6-1	

**REACTIONS.** All bearings 12-3-8 except (jt=length) 2=0-3-8.  
 (lb) - Max Horz 2=-310(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 23, 24 except 26=-200(LC 13), 2=-187(LC 12), 22=-110(LC 13), 25=-369(LC 3)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 23, 24 except 26=1365(LC 1), 2=947(LC 1), 22=311(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1061/339, 4-5=-824/322, 5-6=-736/318, 6-7=-838/203, 7-9=-959/307, 9-11=-1019/363, 11-12=-1093/422, 12-14=-1092/431, 14-26=-1220/516  
 BOT CHORD 2-29=-218/866, 26-29=-68/786, 25-26=-158/277, 24-25=-158/277, 23-24=-158/277, 22-23=-158/277, 20-22=-158/277  
 WEBS 4-29=-339/294, 5-29=-187/595, 9-29=-285/256

- 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) zone; 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 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 23, 24 except (jt=lb) 26=200, 2=187, 22=110, 25=369.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 31, 2023

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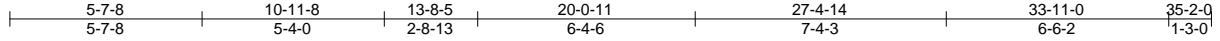
818 Soundside Road  
 Edenton, NC 27932

Job J0323-1467	Truss C2	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Lot 93 South Creek 157502190
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Comtech, Inc. Fayetteville, NC - 28314,

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5x5 =

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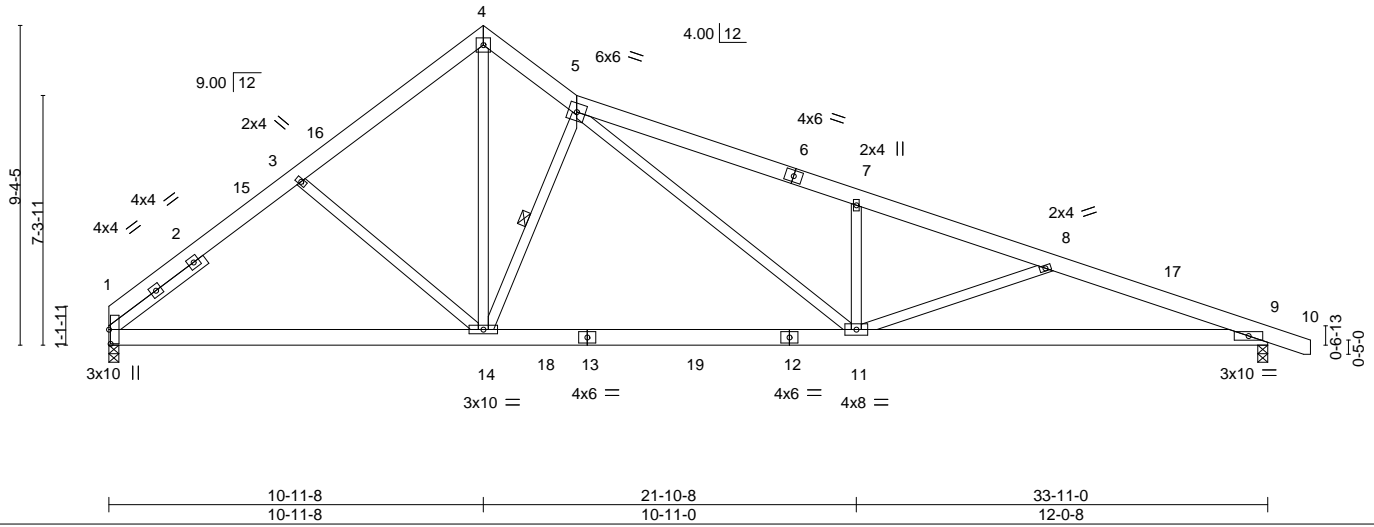


Plate Offsets (X,Y)-- [1:0-5-0-0-9]

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 0.37	Vert(LL)	-0.23 11-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.37 11-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10 11	>999	240		
								Weight: 241 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 3-6-1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-14

**REACTIONS.**

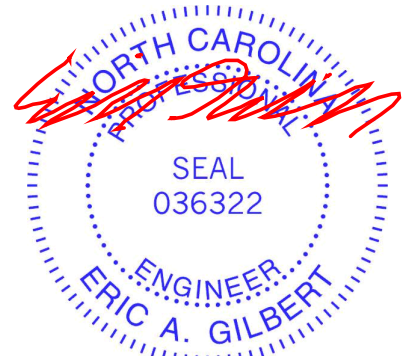
(size) 1=0-3-8, 9=0-3-8  
 Max Horz 1=-227(LC 8)  
 Max Uplift 1=-49(LC 13), 9=-146(LC 9)  
 Max Grav 1=1349(LC 1), 9=1430(LC 1)

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

TOP CHORD 1-3=-1791/396, 3-4=-1527/387, 4-5=-1504/424, 5-7=-2863/618, 7-8=-2826/515,  
 8-9=-3244/654  
 BOT CHORD 1-14=-183/1396, 11-14=-154/1645, 9-11=-523/3013  
 WEBS 3-14=-278/220, 4-14=-354/1521, 5-14=-1230/371, 5-11=-242/1324, 7-11=-467/229,  
 8-11=-410/208

**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 10-11-8, Exterior(2) 10-11-8 to 13-8-5, Interior(1) 13-8-5 to 35-0-13 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) 1 except (jt=lb) 9=146.



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

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



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502191
J0323-1467	C3	ROOF SPECIAL	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:32 2023 Page 1

ID:L1J54eQhkyo6whVlnXZxPFzEJO5-Tj8TWK5EbH3SZ\_JoUpLq0PuQwLJdkx59JhrwDKzVgq9



5x5 =

Scale = 1:66.2

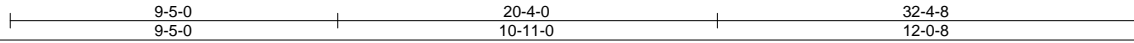
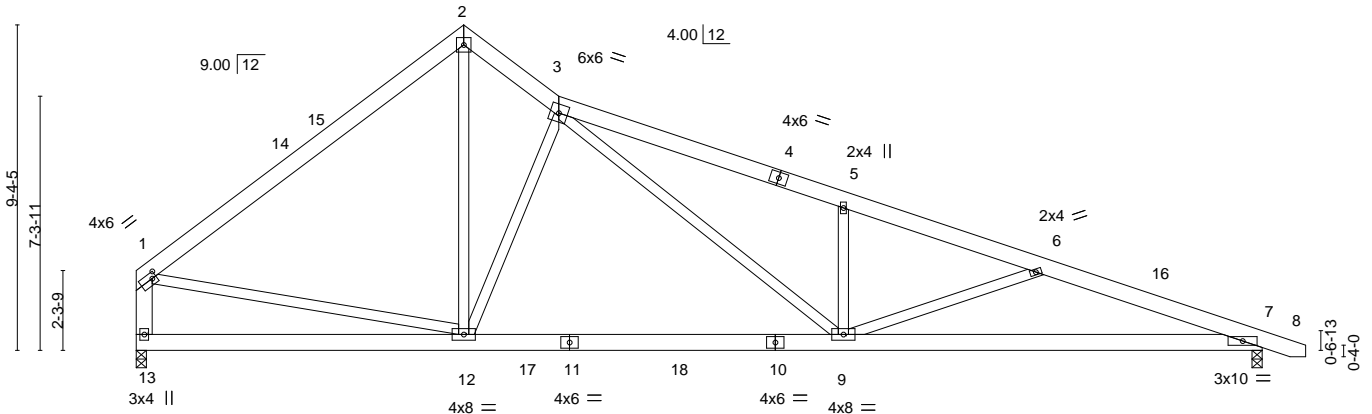


Plate Offsets (X,Y)-- [1:0-1-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.21	9-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.34	9-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	9	>999	240	Weight: 235 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 1-13: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 13=0-3-8, 7=0-3-8  
 Max Horz 13=-224(LC 8)  
 Max Uplift 13=-59(LC 13), 7=-141(LC 9)  
 Max Grav 13=1279(LC 1), 7=1352(LC 1)

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

TOP CHORD 1-2=-1408/304, 2-3=-1276/370, 3-5=-2653/576, 5-6=-2616/473, 6-7=-3043/617,  
 1-13=-1195/297  
 BOT CHORD 12-13=-104/327, 9-12=-117/1438, 7-9=-493/2825  
 WEBS 2-12=-173/1182, 3-12=-1128/314, 3-9=-244/1337, 5-9=-467/231, 6-9=-420/215,  
 1-12=0/893

**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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-5-0, Exterior(2) 9-5-0 to 12-1-13, Interior(1) 12-1-13 to 33-4-13 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) 13 except (jt=lb) 7=141.



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	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502192
J0323-1467	C4	ROOF SPECIAL	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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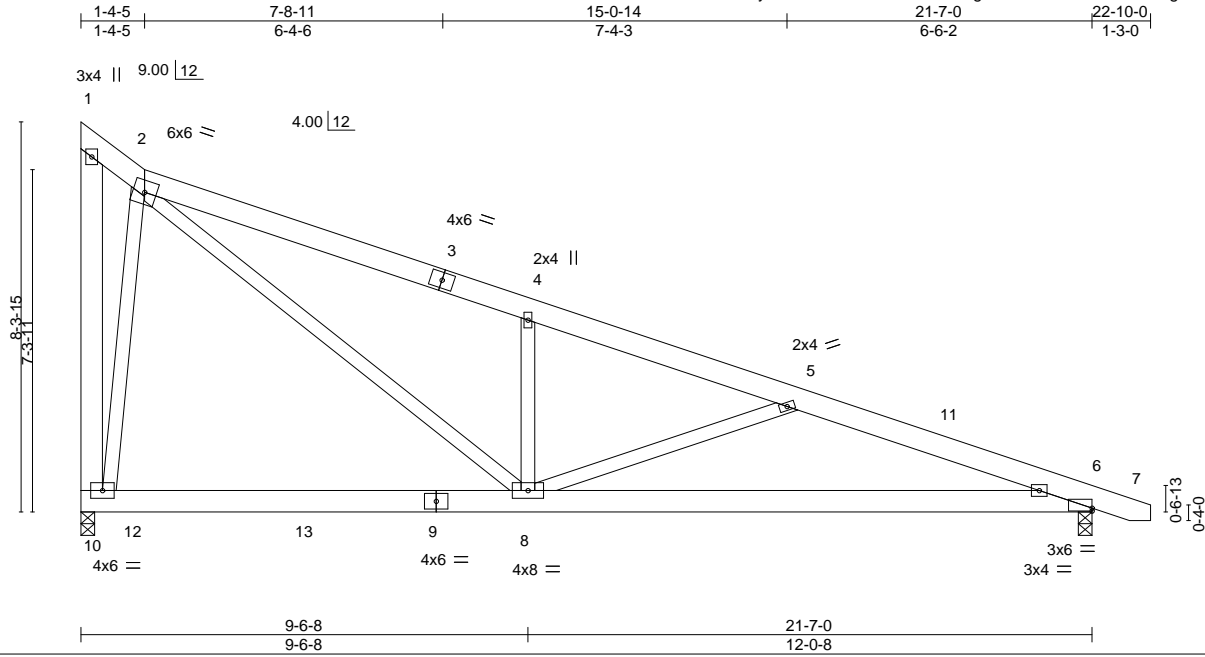


Plate Offsets (X,Y)-- [6:Edge,0-0-12]

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 0.27	Vert(LL)	-0.12	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.27	6-8	>931	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	0.04	6-8	>999	240	Weight: 165 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 1-10: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-255(LC 13)  
 Max Uplift 10=-135(LC 13), 6=-98(LC 9)  
 Max Grav 10=884(LC 2), 6=921(LC 1)

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

TOP CHORD 2-4=-1341/179, 4-5=-1307/77, 5-6=-1786/238  
 BOT CHORD 8-10=-41/275, 6-8=-141/1644  
 WEBS 4-8=-459/226, 5-8=-479/237, 2-10=-869/271, 2-8=-246/1357

**NOTES-**

- 1) 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) 0-2-12 to 1-4-7, Interior(1) 1-4-7 to 22-7-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 10=135.



March 31, 2023

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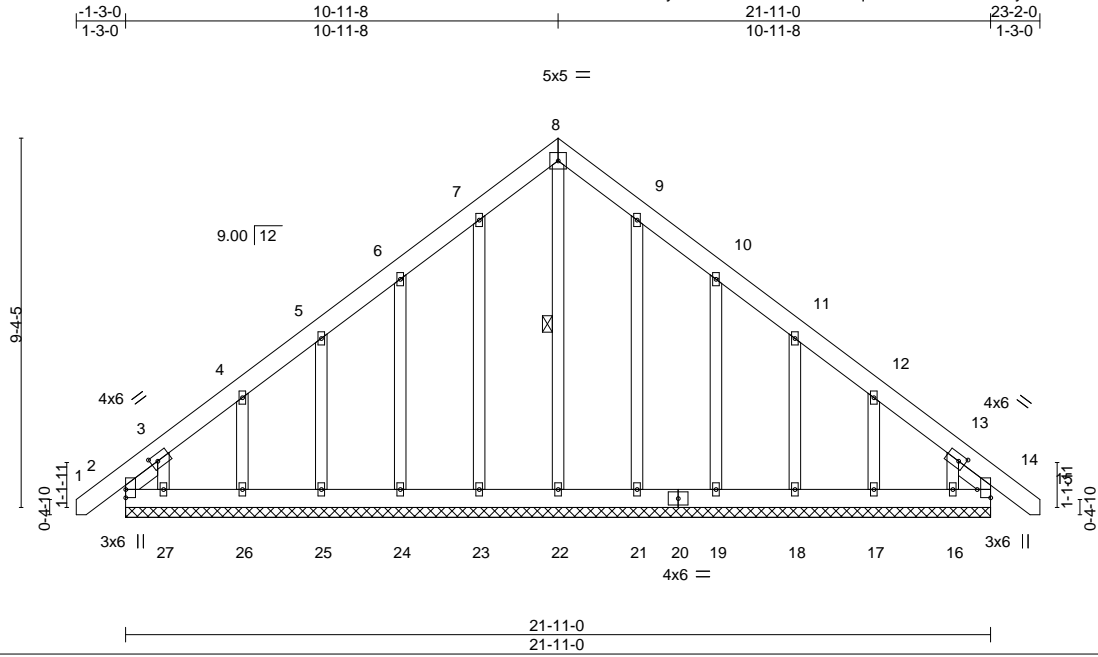


Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502193
J0323-1467	D1GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:58.4

Plate Offsets (X,Y)-- [3:0-2-1,0-2-0], [13:0-2-1,0-2-0], [14:Edge,0-4-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	14	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	14	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 198 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 OTHERS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 1-0-15, Right 2x4 SP No.2 1-0-15

**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.  
 WEBS 1 Row at midpt 8-22

**REACTIONS.**

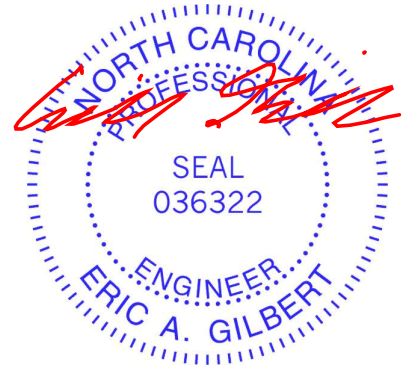
All bearings 21-11-0.  
 (lb) - Max Horz 2--272(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 23, 25, 21, 18, 14 except 2--144(LC 8), 24--109(LC 12), 26--107(LC 12), 27--209(LC 12), 19--111(LC 13), 17--106(LC 13), 16--185(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 14 except 2=264(LC 21)

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

TOP CHORD 2-3--370/245, 13-14--304/202

**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) zone;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 requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 25, 21, 18, 14 except (jt=lb) 2=144, 24=109, 26=107, 27=209, 19=111, 17=106, 16=185.



March 31, 2023

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 Edenton, NC 27932

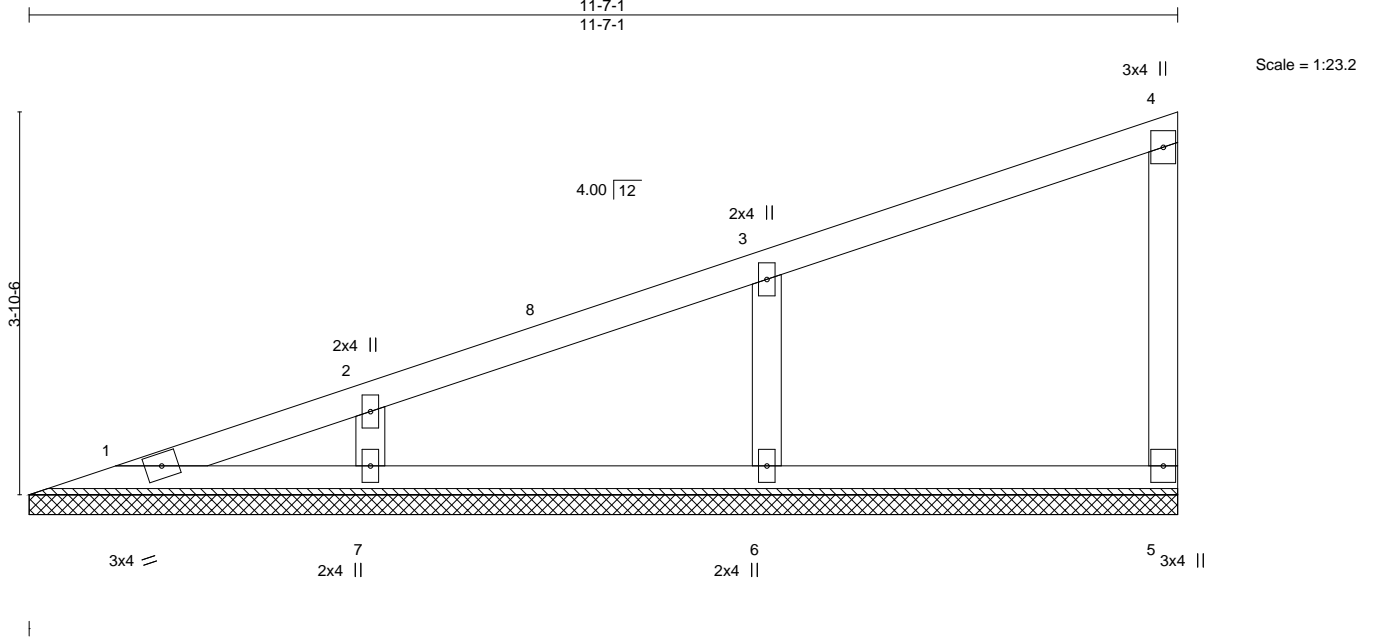


Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502195
J0323-1467	VC2	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 43 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.2  
 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 10-0-0 oc bracing.

**REACTIONS.**

All bearings 11-7-1.  
 (lb) - Max Horz 1=115(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=283(LC 1), 6=357(LC 1)

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

WEBS 3-6=-268/229

**NOTES-**

- 1) 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) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 11-5-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.



March 31, 2023

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



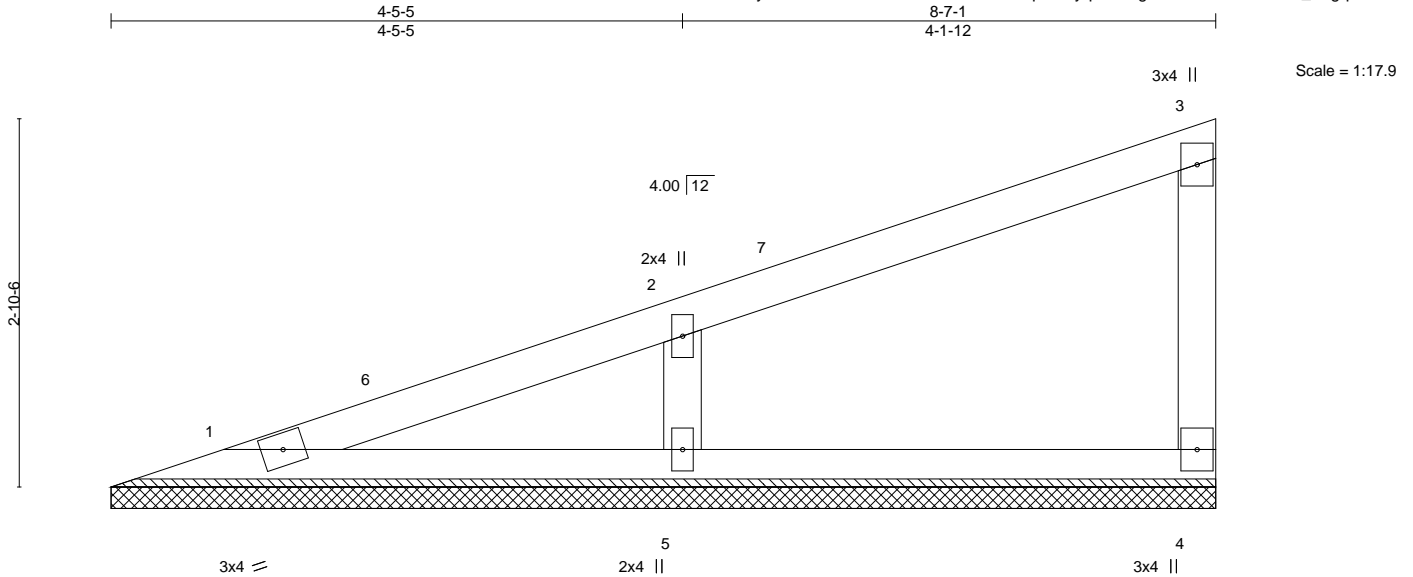
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502196
J0323-1467	VC3	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:38 2023 Page 1

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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 30 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.1 \*Except\*  
 2-5: 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 10-0-0 oc bracing.

**REACTIONS.**

(size) 1=8-7-1, 4=8-7-1, 5=8-7-1  
 Max Horz 1=82(LC 8)  
 Max Uplift 4=-19(LC 8), 5=-58(LC 8)  
 Max Grav 1=101(LC 1), 4=124(LC 1), 5=378(LC 1)

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

WEBS 2-5=-284/265

**NOTES-**

- 1) 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) 0-10-13 to 5-3-9, Interior(1) 5-3-9 to 8-5-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.



March 31, 2023

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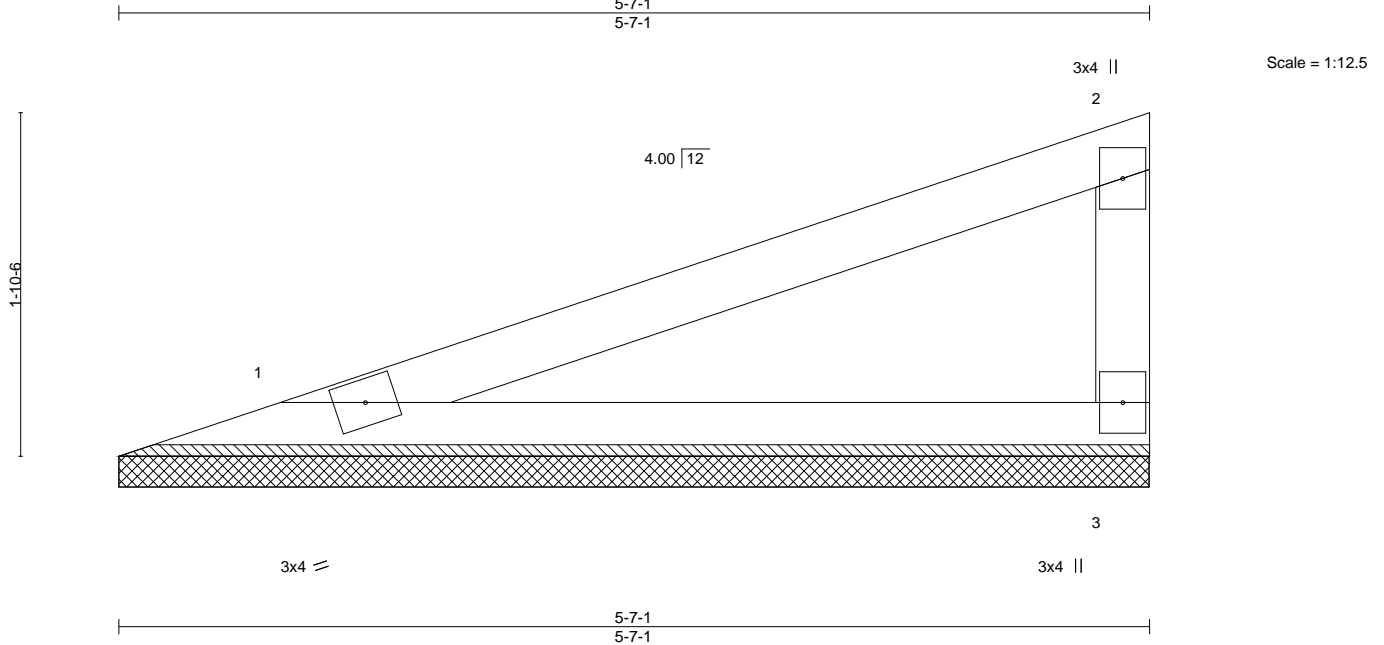
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502197
J0323-1467	VC4	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 18 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

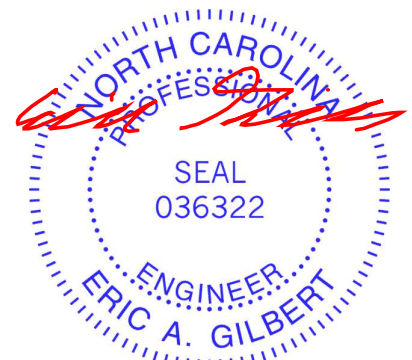
**REACTIONS.**

(size) 1=5-7-1, 3=5-7-1  
 Max Horz 1=49(LC 8)  
 Max Uplift 1=11(LC 8), 3=28(LC 8)  
 Max Grav 1=182(LC 1), 3=182(LC 1)

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

**NOTES-**

- 1) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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	Truss	Truss Type	Qty	Ply	Lot 93 South Creek	157502199
J0323-1467	Z1	DIAGONAL HIP GIRDER	2	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 30 17:19:41 2023 Page 1  
ID:L1J54eQhkyo6whVlnXZxPFzEJO5-iSBtPPCuU1CA8MVXVC?xtlmz?zVQLEtTOaXu1JzVgq0

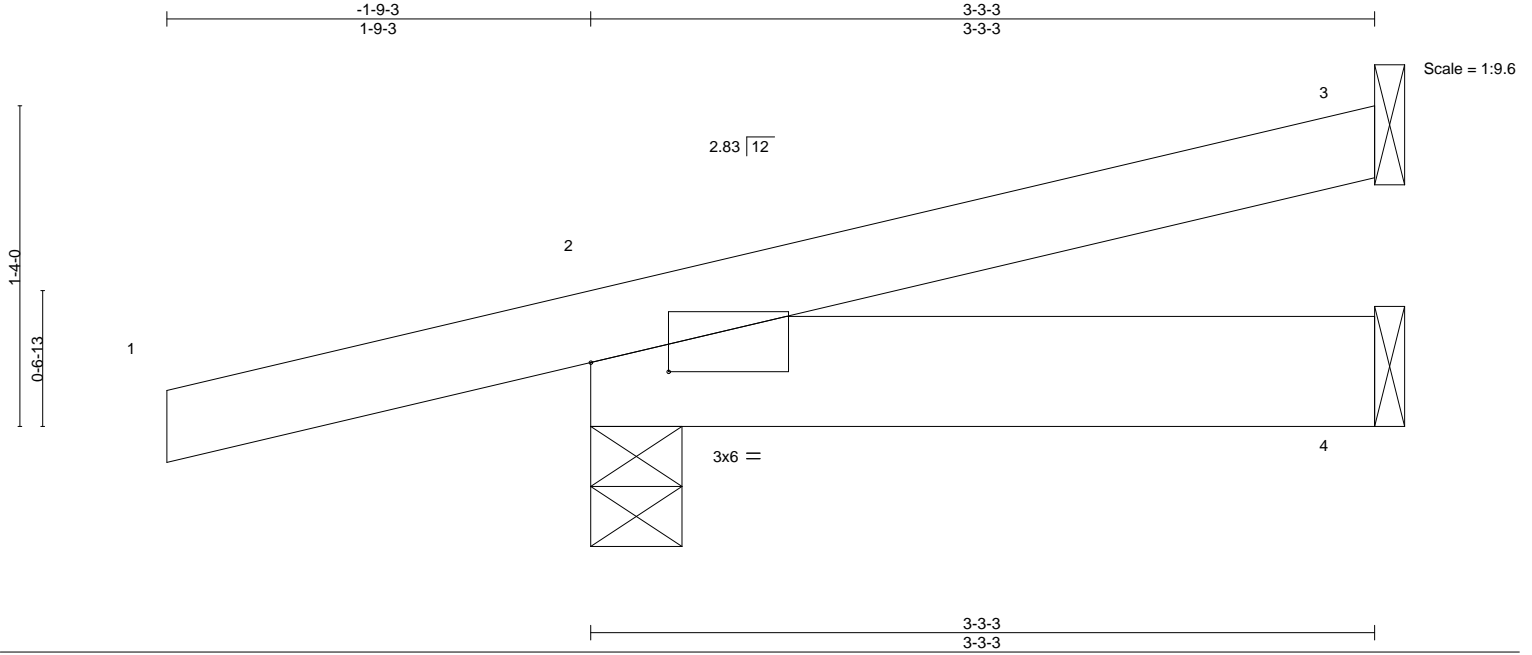


Plate Offsets (X,Y)-- [2:0-3-14,0-0-7] 3-3-3 3-3-3

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 0.33	Vert(LL)	-0.00	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2-4	>999	Weight: 15 lb	FT = 20%

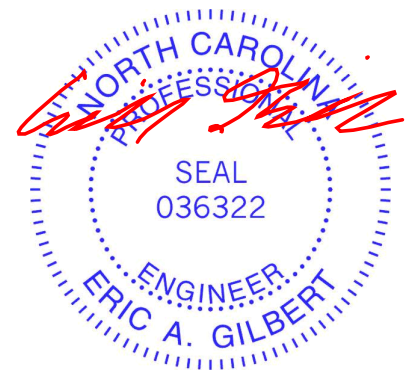
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x6 SP No.1

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

**REACTIONS.** (size) 3=Mechanical, 2=0-4-9, 4=Mechanical  
Max Horz 2=42(LC 8)  
Max Uplift 3=-27(LC 12), 2=-136(LC 8), 4=-16(LC 8)  
Max Grav 3=52(LC 1), 2=276(LC 1), 4=60(LC 3)

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

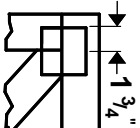
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 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.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=136.



March 31, 2023

# 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: Mill-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.