

RE: J0822-4435
 Wellco/Lot 149 Hidden Lakes/Harnett

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0822-4435
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I53146737	A1	7/18/2022
2	I53146738	B1	7/18/2022
3	I53146739	B1GE	7/18/2022
4	I53146740	C1	7/18/2022
5	I53146741	C1GE	7/18/2022
6	I53146742	C2	7/18/2022
7	I53146743	C3	7/18/2022
8	I53146744	C4	7/18/2022
9	I53146745	D1	7/18/2022
10	I53146746	D1GE	7/18/2022
11	I53146747	D2	7/18/2022
12	I53146748	D3	7/18/2022
13	I53146749	M1GE	7/18/2022
14	I53146750	PB1	7/18/2022
15	I53146751	PB1GE	7/18/2022
16	I53146752	PB2	7/18/2022

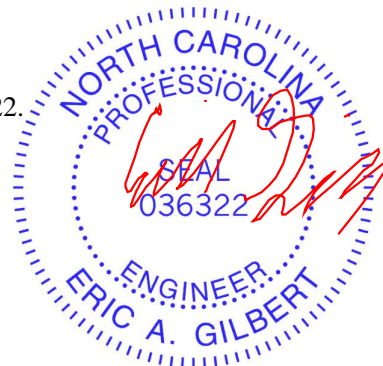
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



July 18, 2022

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146737
J0822-4435	A1	PIGGYBACK BASE	11	1	Job Reference (optional)	

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ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-nG13b6hUWrdc0U0KITWzJSZ9HbQrBqMGWIW?TPywwRp



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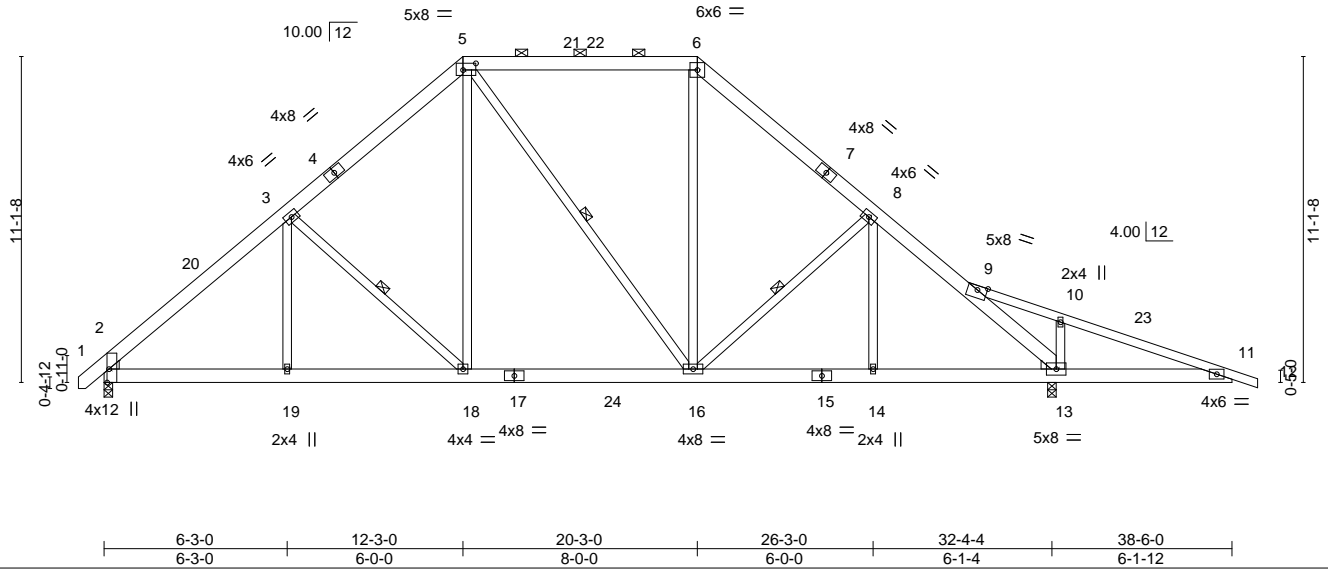


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [5:0-5-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.06 16-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.11 16-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 14-16 >999 240		
				Weight: 294 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
9-12: 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6, 9-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-13.
WEBS 1 Row at midpt 3-18, 5-16, 8-16

REACTIONS.

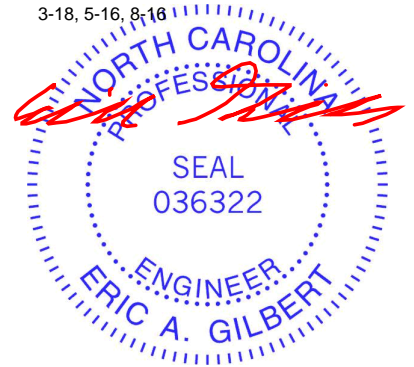
(size) 2=0-3-8, 13=0-3-8
Max Horz 2=-266(LC 10)
Max Uplift 2=-56(LC 12), 13=-157(LC 9)
Max Grav 2=1302(LC 1), 13=1872(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1651/338, 3-5=-1303/398, 5-6=-951/363, 6-8=-1206/345, 8-9=-1369/229,
9-13=-2043/695, 9-10=-602/708, 10-11=-681/750
BOT CHORD 2-19=-107/1274, 18-19=-107/1274, 16-18=0/1021, 14-16=0/1021,
11-13=-656/704
WEBS 3-19=0/253, 3-18=-499/229, 5-18=-62/567, 6-16=-15/399, 8-16=-332/152,
10-13=-326/181

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 16-7-13, Interior(1) 16-7-13 to 20-3-0, Exterior(2) 20-3-0 to 24-7-13, Interior(1) 24-7-13 to 39-4-8 zone; cantilever 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 56 lb uplift at joint 2 and 157 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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



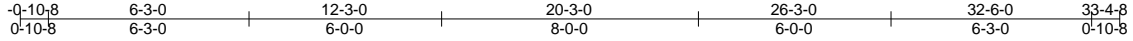
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146738
J0822-4435	B1	PIGGYBACK BASE	4	1	Job Reference (optional)	

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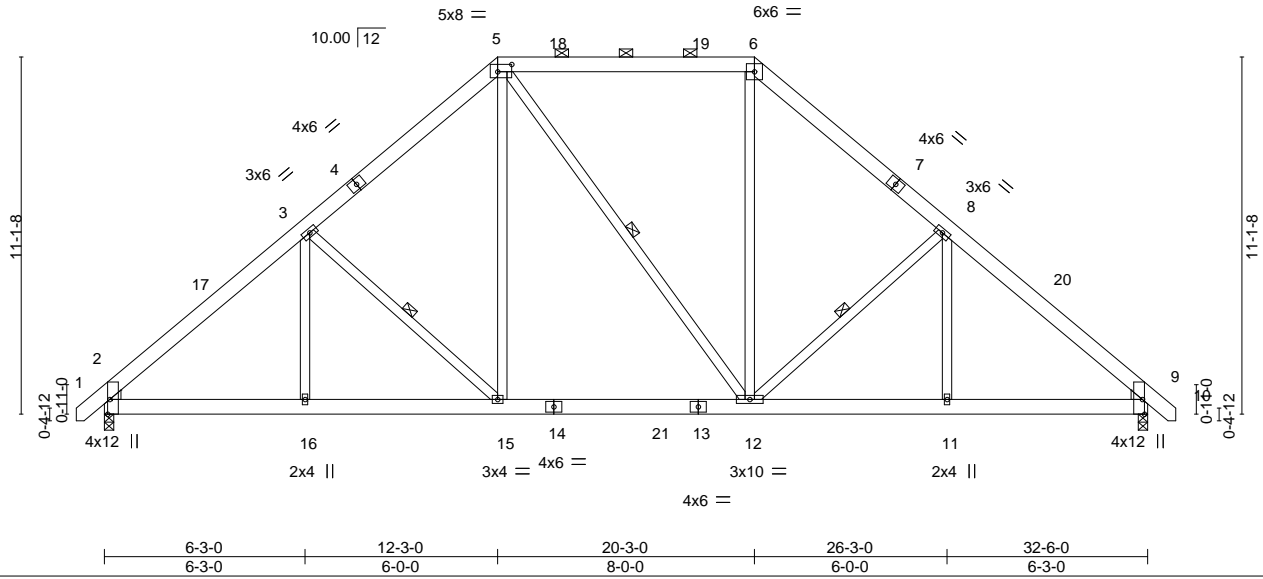


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [5:0-5-4,0-2-12], [9:0-5-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.07	12-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.11	12-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.03	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	15	>999	240	Weight: 265 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-15, 5-12, 8-12

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=-261(LC 10)
 Max Uplift 2=-55(LC 12), 9=-55(LC 13)
 Max Grav 2=1342(LC 1), 9=1342(LC 1)

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

TOP CHORD 2-3=-1709/396, 3-5=-1354/458, 5-6=-992/431, 6-8=-1337/458, 8-9=-1708/396
 BOT CHORD 2-16=-175/1300, 15-16=-175/1300, 12-15=-51/1030, 11-12=-170/1178, 9-11=-170/1178
 WEBS 3-16=0/252, 3-15=-495/236, 5-15=-72/569, 6-12=-75/477, 8-12=-492/236

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-3-0, Interior(1) 26-3-0 to 33-3-1 zone;C:C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 55 lb uplift at joint 9.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) 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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146740
J0822-4435	C1	ROOF TRUSS	4	1	Job Reference (optional)	

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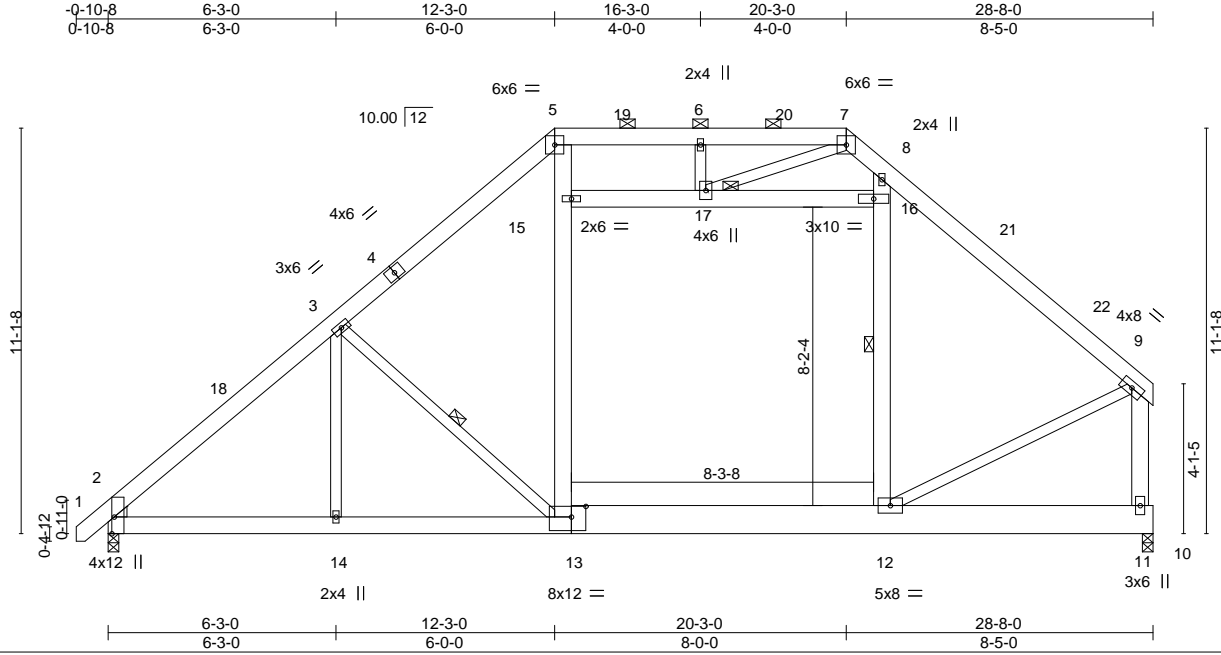


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [13:0-4-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.09	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.16	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	13-14	>999	240		
							Weight: 289 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 10-13: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-13,8-12,9-11,15-16: 2x6 SP No.1

WEDGE
 Left: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=254(LC 9)
 Max Grav 2=1467(LC 20), 11=1608(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1905/105, 3-5=-1571/162, 5-6=-1270/191, 6-7=-1270/191, 7-8=-820/155,
 8-9=-1526/76, 9-11=-1633/72
 BOT CHORD 2-14=-121/1472, 13-14=-122/1473, 12-13=0/1150
 WEBS 3-13=-524/257, 13-15=-32/713, 5-15=0/726, 12-16=-116/388, 8-16=0/412, 9-12=0/1224,
 16-17=-479/114, 3-14=0/289, 7-17=-112/706

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-5-11, Interior(1) 26-5-11 to 28-3-12 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.
- Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).13-15, 12-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



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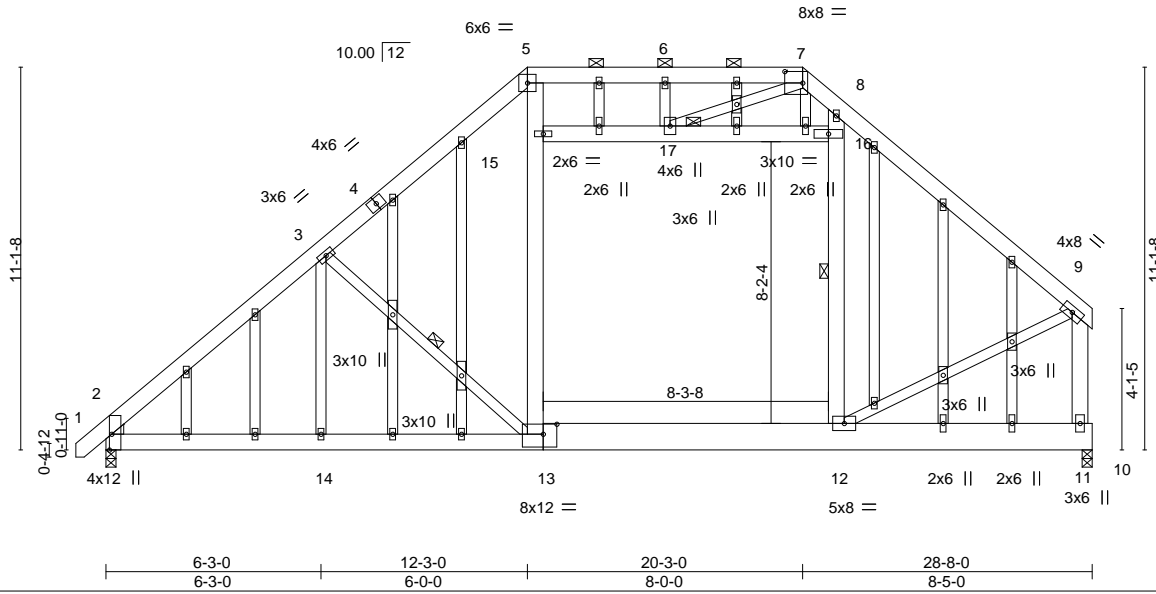
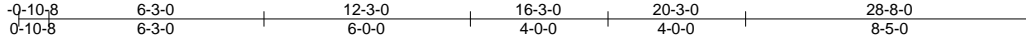
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146741
J0822-4435	C1GE	GABLE	1	1	Job Reference (optional)	

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Scale = 1:67.0

Plate Offsets (X,Y)-- [2:0-5-8,Edge], [7:0-6-4,0-4-0], [13:0-4-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.09	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.16	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	13-14	>999	240	Weight: 352 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 10-13: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-13,8-12,9-11,15-16: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7. Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD
 WEBS 1 Row at midpt 3-13, 12-16
 JOINTS 1 Brace at Jt(s): 17

REACTIONS.

(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=328(LC 2)
 Max Uplift 2=51(LC 12)
 Max Grav 2=1449(LC 2), 11=1608(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1905/162, 3-5=-1571/208, 5-6=-1268/228, 6-7=-1269/228, 7-8=-820/180, 8-9=-1526/100, 9-11=-1633/97
 BOT CHORD 2-14=-190/1468, 13-14=-190/1469, 12-13=0/1127
 WEBS 3-13=-524/359, 13-15=-54/717, 5-15=0/720, 12-16=-116/388, 8-16=0/412, 9-12=0/1202, 16-17=-475/124, 3-14=0/289, 7-17=-143/701

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) -0-9-1 to 3-7-12, Exterior(2) 3-7-12 to 12-3-0, Corner(3) 12-3-0 to 16-7-13, Exterior(2) 16-7-13 to 20-3-0, Corner(3) 20-3-0 to 24-7-13, Exterior(2) 24-7-13 to 28-3-12 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).13-15, 12-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

Continued on page 2

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	I53146741
J0822-4435	C1GE	GABLE	1	1	Job Reference (optional)	

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NOTES-

14) Attic room checked for L/360 deflection.

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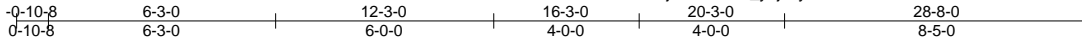
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146742
J0822-4435	C2	ROOF TRUSS	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:05 2022 Page 1

ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-4dDi3Vnts?VdMZ2hCR8c5wMPwPpQKyX17ujtDVyvwRi



Scale: 3/16"=1'

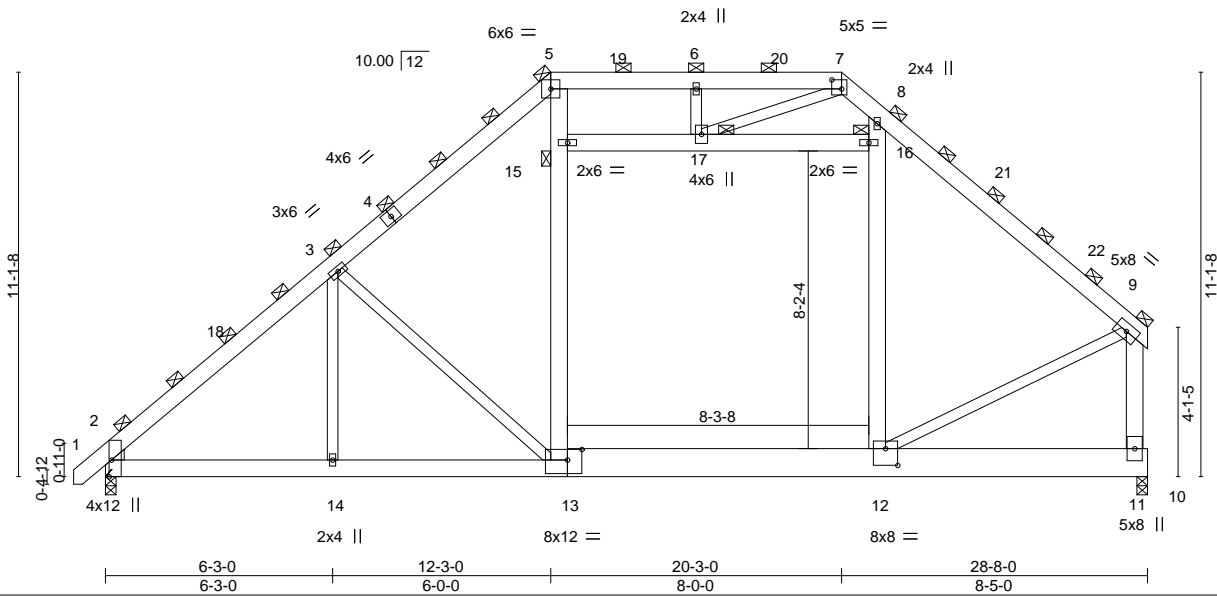


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [7:0-3-4,0-3-0], [12:0-4-0,0-5-8], [13:0-4-12,0-3-8]

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) -0.08	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.11	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	13-14	>999	240		
							Weight: 578 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 10-13: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-13,8-12,9-11,15-16: 2x6 SP No.1

WEDGE
 Left: 2x4 SP No.2

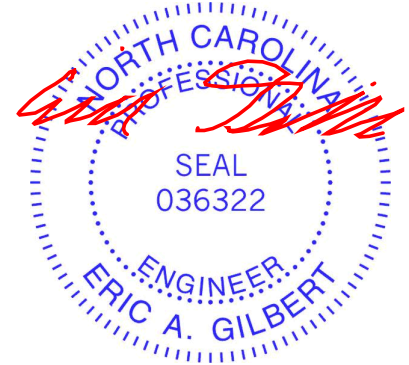
REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=509(LC 9)
 Max Grav 2=3122(LC 20), 11=4444(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4039/252, 3-5=-3448/380, 5-6=-2679/406, 6-7=-2681/406, 7-8=-1950/365,
 8-9=-3502/231, 9-11=-3684/218
 BOT CHORD 2-14=-272/3123, 13-14=-273/3125, 12-13=0/2599
 WEBS 3-13=-983/494, 13-15=-83/1541, 5-15=0/1557, 12-16=0/1130, 8-16=0/1184, 9-12=0/2677,
 15-17=-51/282, 16-17=-762/193, 6-17=-259/208, 3-14=0/535, 7-17=-156/1079

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: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-5-11, Interior(1) 26-5-11 to 28-3-12 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.
- Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s). 13-15, 12-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

July 18, 2022



Continued on page 2

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	I53146742
J0822-4435	C2	ROOF TRUSS	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:05 2022 Page 2
 ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-4dDi3Vnts?VdMZ2hCR8c5wMPwPpQKyXI7ujtDVyvwRi

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-120, 5-7=-120, 7-9=-120, 2-13=-40, 12-13=-80, 11-12=-160(F=-120), 10-11=-40, 15-16=-40

Drag: 13-15=-20, 12-16=-20

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146743
J0822-4435	C3	PIGGYBACK BASE	2	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:06 2022 Page 1
 ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-Ypn4GmVldU_idtm9frd8uaopBm3QoRMYSQmyyvwRh



Scale = 1:65.1

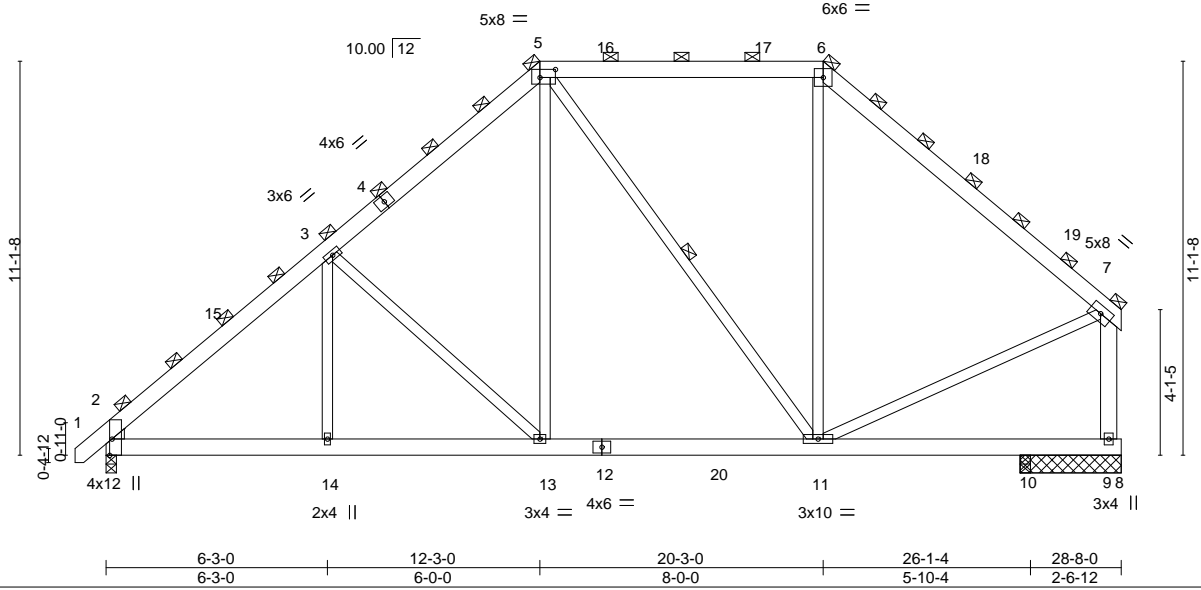


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [5:0-5-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.06	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.09	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.25	Horz(CT) 0.02	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	14	>999	240		
							Weight: 485 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 7-9: 2x6 SP No.1

WEDGE
 Left: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 9=2-10-4, 10=0-3-8
 Max Horz 2=509(LC 9)
 Max Uplift 2=108(LC 12), 9=148(LC 13)
 Max Grav 2=2347(LC 1), 9=2096(LC 2), 10=378(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=2920/682, 3-5=2232/803, 5-6=1404/731, 6-7=1934/667, 7-9=2058/670
 BOT CHORD 2-14=588/2214, 13-14=588/2214, 11-13=235/1656
 WEBS 3-14=0/505, 3-13=1018/480, 5-13=151/1158, 5-11=630/204, 6-11=92/423,
 7-11=86/1340

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.
 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) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-5-11, Interior(1) 26-5-11 to 28-3-12 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) except (jt=lb) 2=108, 9=148.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 18, 2022

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

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



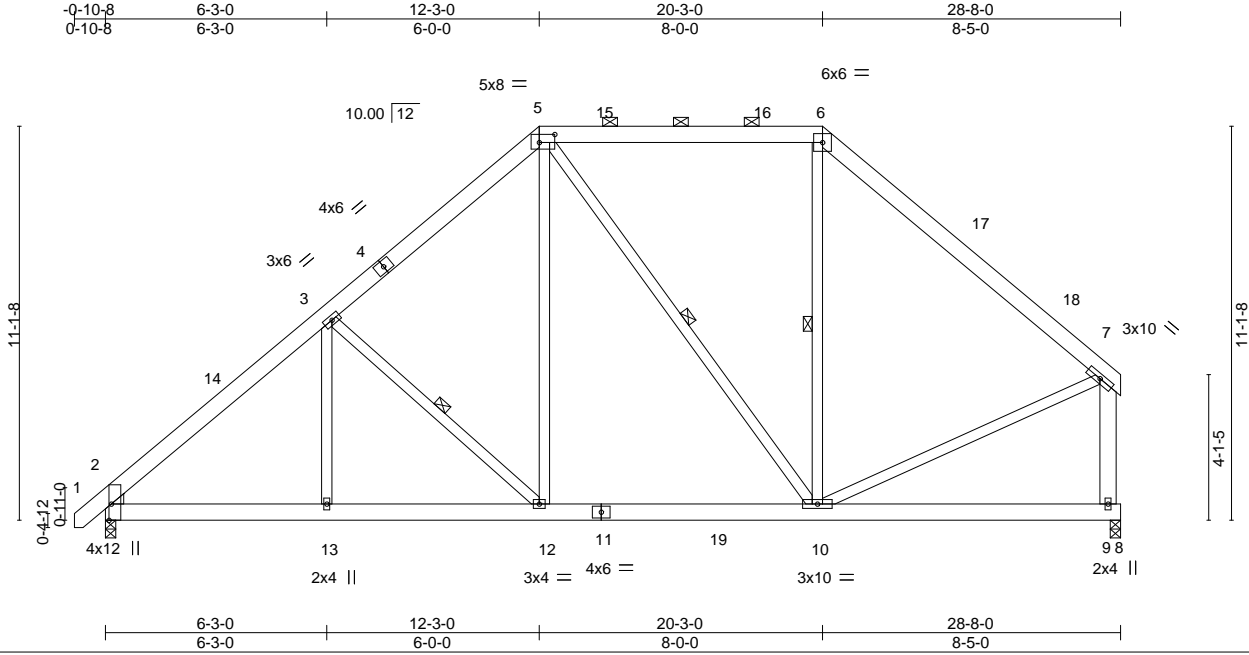
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146744
J0822-4435	C4	PIGGYBACK BASE	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-0?LSUBo7OclLbsC3KsA4ALRk0DXdotSabBC_IoywvRg



Scale = 1:65.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.06 10-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.09 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 13 >999 240		
				Weight: 243 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 7-9: 2x6 SP No.1

WEDGE
 Left: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
 Max Horz 2=254(LC 9)
 Max Uplift 2=-49(LC 12), 9=-15(LC 13)
 Max Grav 2=1182(LC 1), 9=1133(LC 1)

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

TOP CHORD 2-3=-1473/333, 3-5=-1123/395, 5-6=-725/356, 6-7=-950/306
 BOT CHORD 2-13=-288/1114, 12-13=-288/1114, 10-12=-112/833
 WEBS 3-13=0/261, 3-12=-513/239, 5-12=-81/571, 5-10=-296/115, 7-9=-1060/323,
 7-10=-88/732

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) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-5-11, Interior(1) 26-5-11 to 28-3-12 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, 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 18, 2022

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146745
J0822-4435	D1	ATTIC	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:08 2022 Page 1

ID:oiJeAM7JLnIAQMeF_yajkeyxrR0-UCvqhXpl9wtCD0nFtahJjZ_sQdISXKekprXqywwRf

0-11-0 4-0-4 8-6-13 10-11-8 13-4-3 17-10-12 21-11-0 22-10-0
0-11-0 4-0-4 4-6-9 2-4-11 2-4-11 4-6-9 4-0-4 0-11-0

6x8 =

Scale = 1:81.8

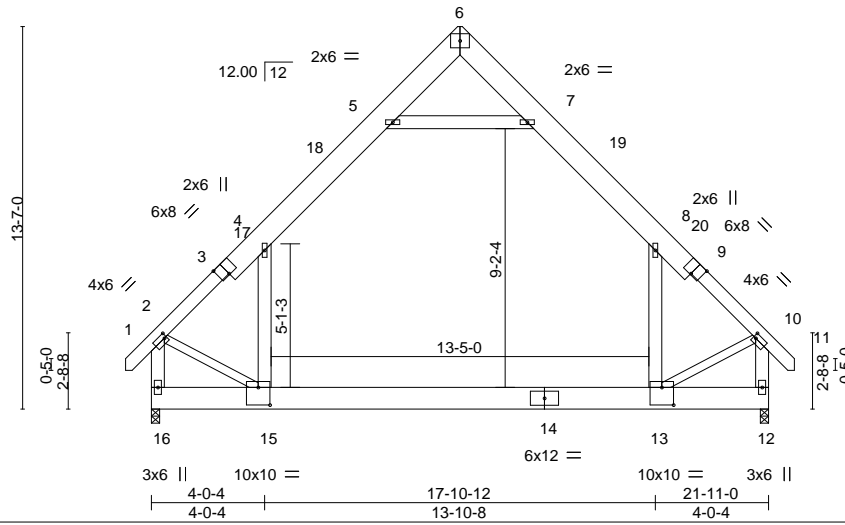


Plate Offsets (X,Y)-- [2:0-1-0-0-2-0], [3:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-0-0-2-0], [13:0-5-0,0-7-8], [15:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.24	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.37	13-15	>693	240		
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	Wind(LL) 0.05	13-15	>999	240		
							Weight: 259 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-3,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-15,10-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-15 oc bracing.

REACTIONS.

(size) 16=0-3-8, 12=0-3-8
Max Horz 16=353(LC 11)
Max Grav 16=1585(LC 21), 12=1585(LC 20)

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

TOP CHORD 2-4=-1649/0, 4-5=-1052/166, 5-6=-20/368, 6-7=-20/368, 7-8=-1052/166, 8-10=-1649/0,
2-16=-1914/0, 10-12=-1914/0
BOT CHORD 15-16=-318/414, 13-15=0/1022
WEBS 5-7=-1342/207, 4-15=0/869, 8-13=0/869, 2-15=0/1057, 10-13=0/1059

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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-9-2 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.



July 18, 2022

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146746
J0822-4435	D1GE	ATTIC	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:09 2022 Page 1

ID:oiJeAM7jLnAQMeF_yajkeyxrR0-zOSDvtqOwD?2rAMSRHCYFmW1A15hGnut2Vh4MHyywRe
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 0-11-0 4-0-4 4-6-9 2-4-11 2-4-11 4-6-9 4-0-4 0-11-0

6x8 =

Scale = 1:81.8

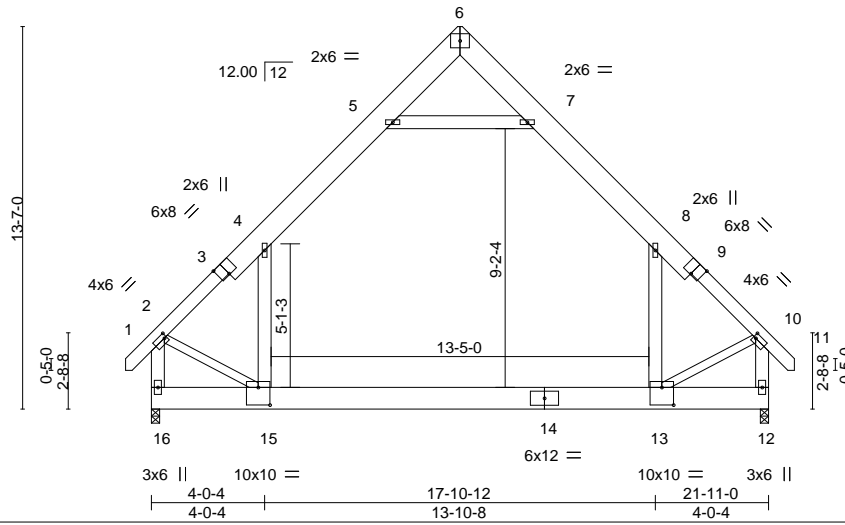


Plate Offsets (X,Y)-- [2:0-1-0-0-2-0], [3:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-0-0-2-0], [13:0-5-0,0-7-8], [15:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.24	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.37	13-15	>693	240		
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	Wind(LL) 0.06	13-15	>999	240	Weight: 259 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
 1-3,9-11: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-15,10-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-6-15 oc bracing.

REACTIONS.

(size) 16=0-3-8, 12=0-3-8
 Max Horz 16=442(LC 11)
 Max Grav 16=1581(LC 21), 12=1581(LC 20)

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

TOP CHORD 2-4=-1664/0, 4-5=-1060/199, 5-6=-38/368, 6-7=-39/368, 7-8=-1060/199, 8-10=-1664/0,
 2-16=-1931/0, 10-12=-1931/0
 BOT CHORD 15-16=-410/503, 13-15=0/1053
 WEBS 5-7=-1342/289, 4-15=0/869, 8-13=0/869, 2-15=0/1096, 10-13=0/1099

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) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 11-0-0, Corner(3) 11-0-0 to 15-4-13, Exterior(2) 15-4-13 to 22-9-2 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.



July 18, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



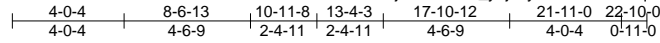
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146747
J0822-4435	D2	ATTIC	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:10 2022 Page 1

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6x8 =

Scale = 1:82.9

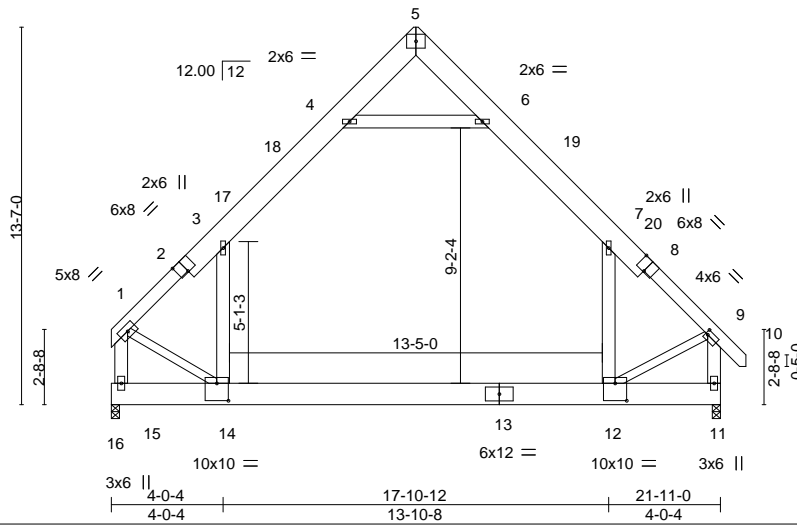


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [8:0-4-0,Edge], [9:0-1-0,0-2-0], [12:0-5-0,0-7-8], [14:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL)	-0.23 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT)	-0.37 12-14	>696	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 12-14	>999	240		
							Weight: 257 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-2,8-10: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
1-14,9-12: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-7-7 oc bracing: 12-14.

REACTIONS.

(size) 11=0-3-8, 15=0-3-8
Max Horz 15=320(LC 11)
Max Grav 11=1574(LC 20), 15=1551(LC 21)

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

TOP CHORD 1-3=-1619/0, 3-4=-1049/168, 4-5=-18/362, 5-6=-21/366, 6-7=-1040/158, 7-9=-1631/0,
1-15=-1900/0, 9-11=-1894/0
BOT CHORD 14-15=-305/349, 12-14=0/1009
WEBS 4-6=-1329/213, 3-14=0/833, 7-12=0/863, 1-14=0/1102, 9-12=0/1042

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) 0-4-12 to 4-9-9, Interior(1) 4-9-9 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-9-2 zone; end vertical 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.



July 18, 2022

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

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



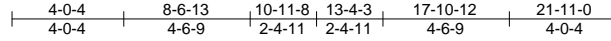
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146748
J0822-4435	D3	ATTIC	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:11 2022 Page 1

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6x8 =

Scale = 1:82.9

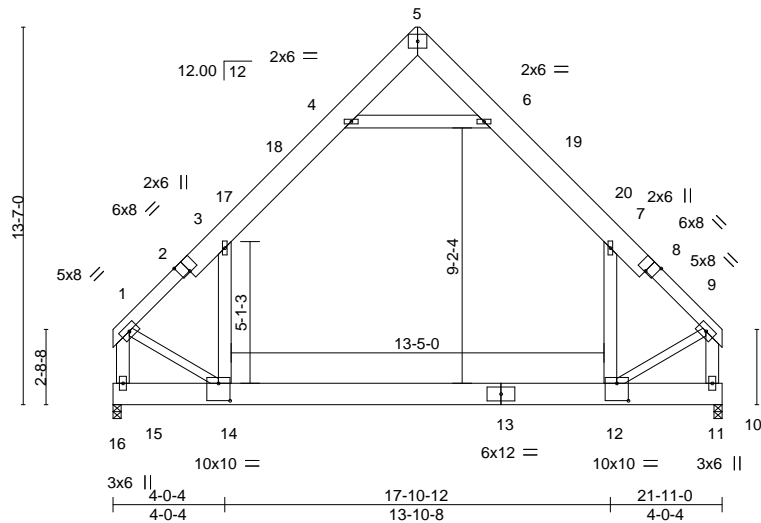


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [8:0-4-0,Edge], [12:0-5-0,0-7-8], [14:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.23	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.36	12-14	>700	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	12-14	>999	240		
							Weight: 254 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
 1-2,8-9: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 1-14,9-12: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-8-5 oc bracing: 12-14.

REACTIONS.

(size) 15=0-3-8, 11=0-3-8
 Max Horz 15=-330(LC 8)
 Max Grav 15=1544(LC 21), 11=1544(LC 20)

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

TOP CHORD 1-3=-1604/0, 3-4=-1039/164, 4-5=-21/359, 5-6=-21/359, 6-7=-1039/164, 7-9=-1603/0,
 1-15=-1885/0, 9-11=-1886/0
 BOT CHORD 14-15=-317/359, 12-14=0/991
 WEBS 4-6=-1312/202, 3-14=0/827, 7-12=0/827, 1-14=0/1096, 9-12=0/1097

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) 0-4-12 to 4-9-9, Interior(1) 4-9-9 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 21-7-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.



July 18, 2022

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146749
J0822-4435	M1GE	MONOPITCH STRUCTURAL	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:12 2022 Page 1
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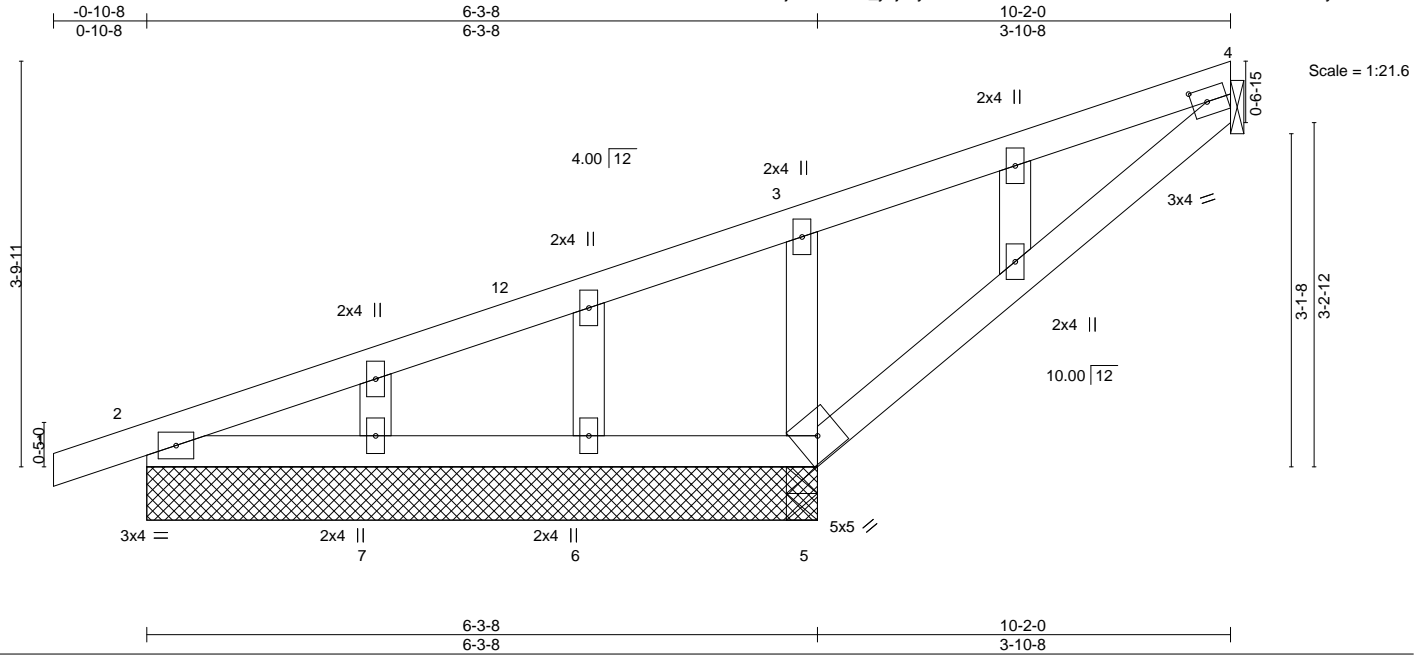


Plate Offsets (X,Y)-- [4:0-1-11,0-1-8]

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) -0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00	2-7	>999	240	Weight: 42 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 4-5.

REACTIONS. All bearings 6-3-8 except (jt=length) 4=Mechanical.
(lb) - Max Horz 2=177(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 7 except 5=174(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 4, 2, 6, 7 except 5=440(LC 1), 5=440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=353/236

- 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) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 7 except (jt=lb) 5=174.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 18, 2022

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146750
J0822-4435	PB1	PIGGYBACK	22	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:13 2022 Page 1
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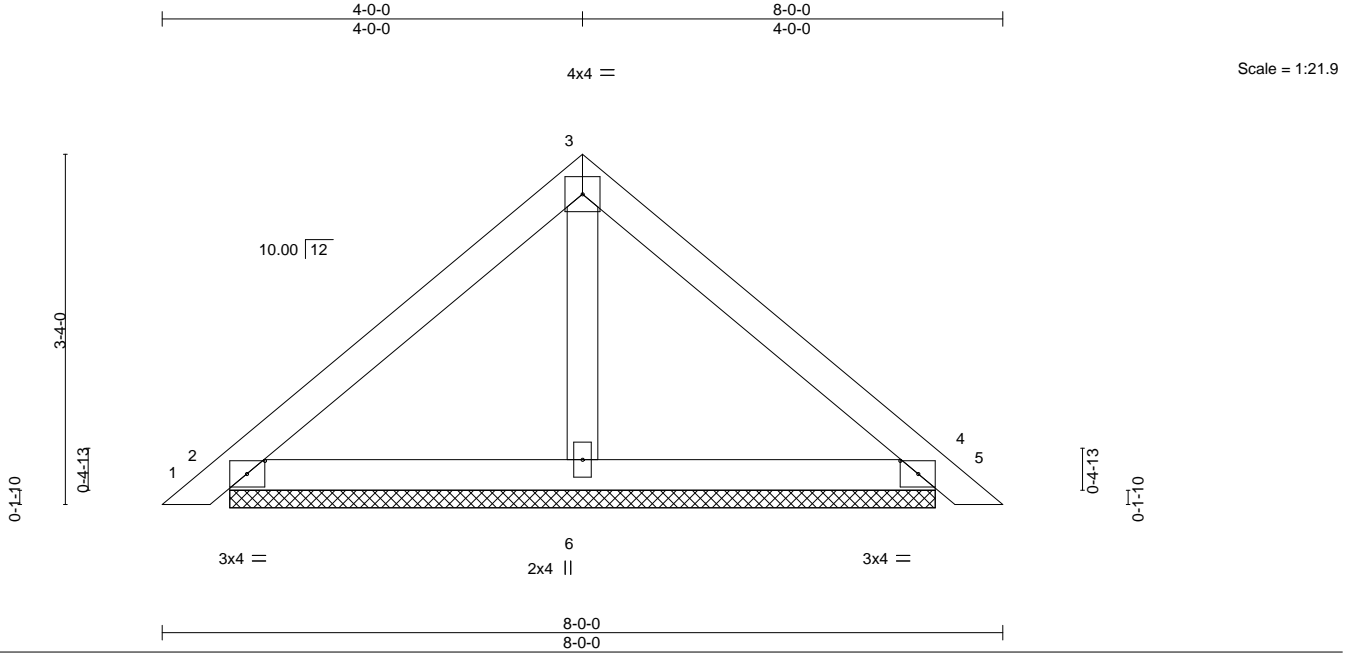


Plate Offsets (X,Y)--	[2:0-2-1,0-1-8], [4:0-2-1,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 29 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.

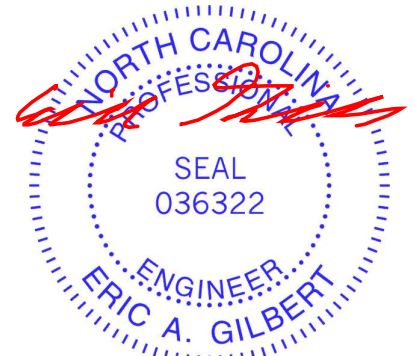
REACTIONS.

(size) 2=6-8-9, 4=6-8-9, 6=6-8-9
Max Horz 2=-75(LC 10)
Max Uplift 2=-30(LC 12), 4=-37(LC 13)
Max Grav 2=182(LC 1), 4=182(LC 1), 6=223(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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
- 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 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, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



July 18, 2022

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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	Wellco/Lot 149 Hidden Lakes/Harnett	153146751
J0822-4435	PB1GE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:14 2022 Page 1
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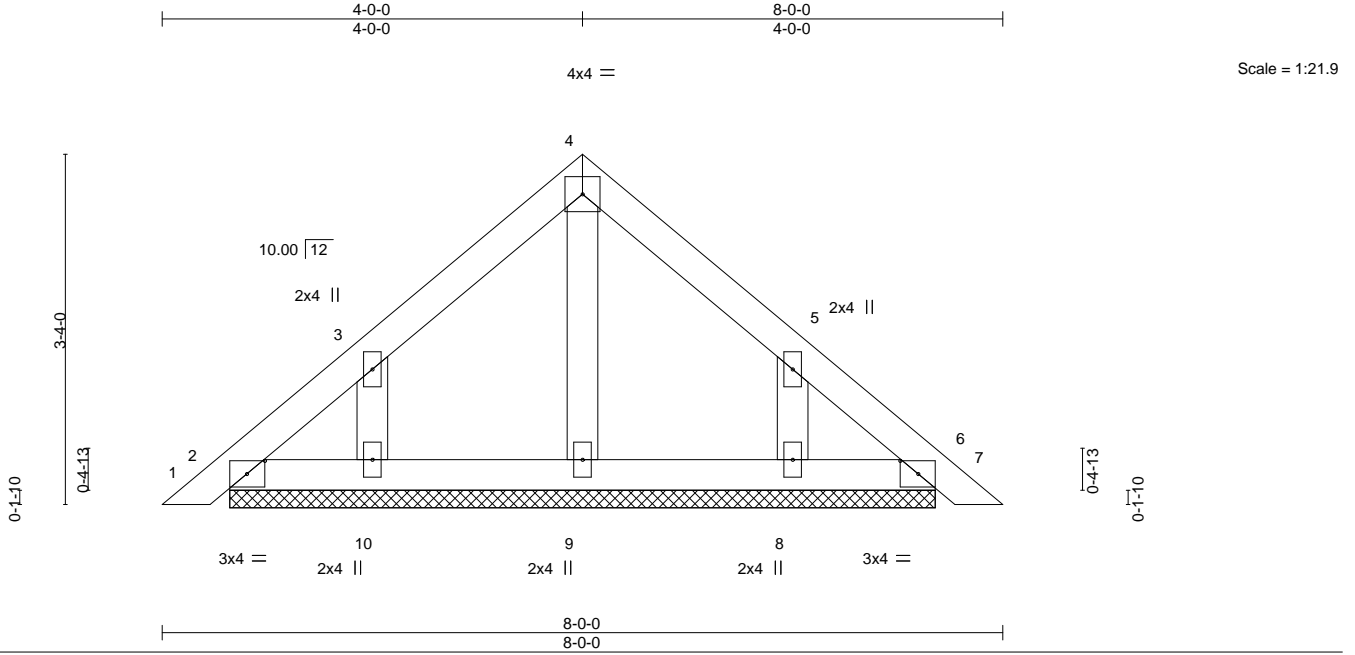


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

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 0.04	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 32 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. All bearings 6-8-9.
(lb) - Max Horz 2=94(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-121(LC 12), 8=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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.
 - 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, 6 except (jt=1b) 10=121, 8=120.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 149 Hidden Lakes/Harnett	153146752
J0822-4435	PB2	PIGGYBACK	3	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jul 18 06:57:14 2022 Page 1
ID:oiJeAM7JLnIAQMeF_yajkeyxrR0-JLG6yauWkmeLxxEPEqoyqE?H2z5x5UcCnOr2UyvwRZ

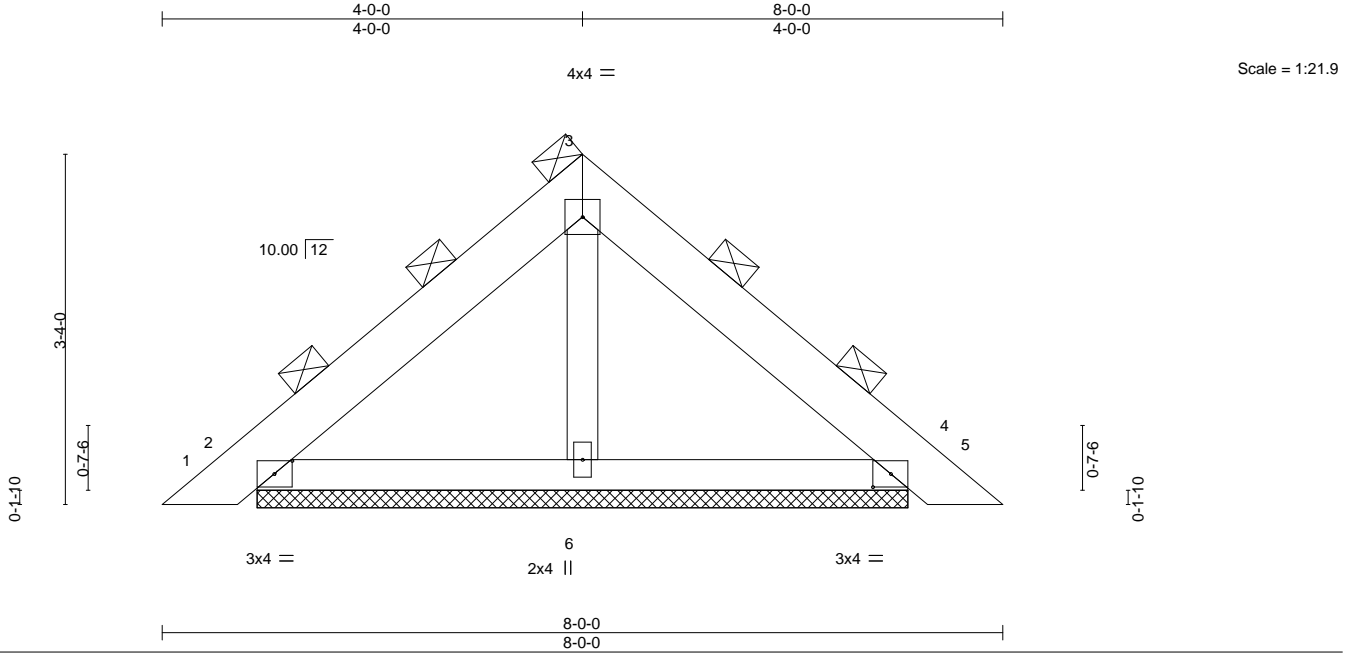


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)	SPACING-	4-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 74 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x4 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
OTHERS 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=6-2-5, 4=6-2-5, 6=6-2-5
 Max Horz 2=-146(LC 10)
 Max Uplift 2=-66(LC 12), 4=-81(LC 13)
 Max Grav 2=373(LC 1), 4=373(LC 1), 6=384(LC 3)

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

- 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: 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) 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 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, 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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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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.