

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1575
Cav&Cates/Lot 26 Ducks Landing/Harnett

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

Pages or sheets covered by this seal: I73519066 thru I73519104

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 16, 2025

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	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A1	ROOF TRUSS	2	1	173519066
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zJC?f

-0-10-8 7-0-0 10-1-12 16-6-0 24-0-0 30-0-0 36-0-0 43-10-4 50-0-0 50-10-8
0-10-8 7-0-0 3-1-12 6-4-4 7-6-0 6-0-0 6-0-0 7-10-4 6-1-12 0-10-8

Scale = 1:91.6

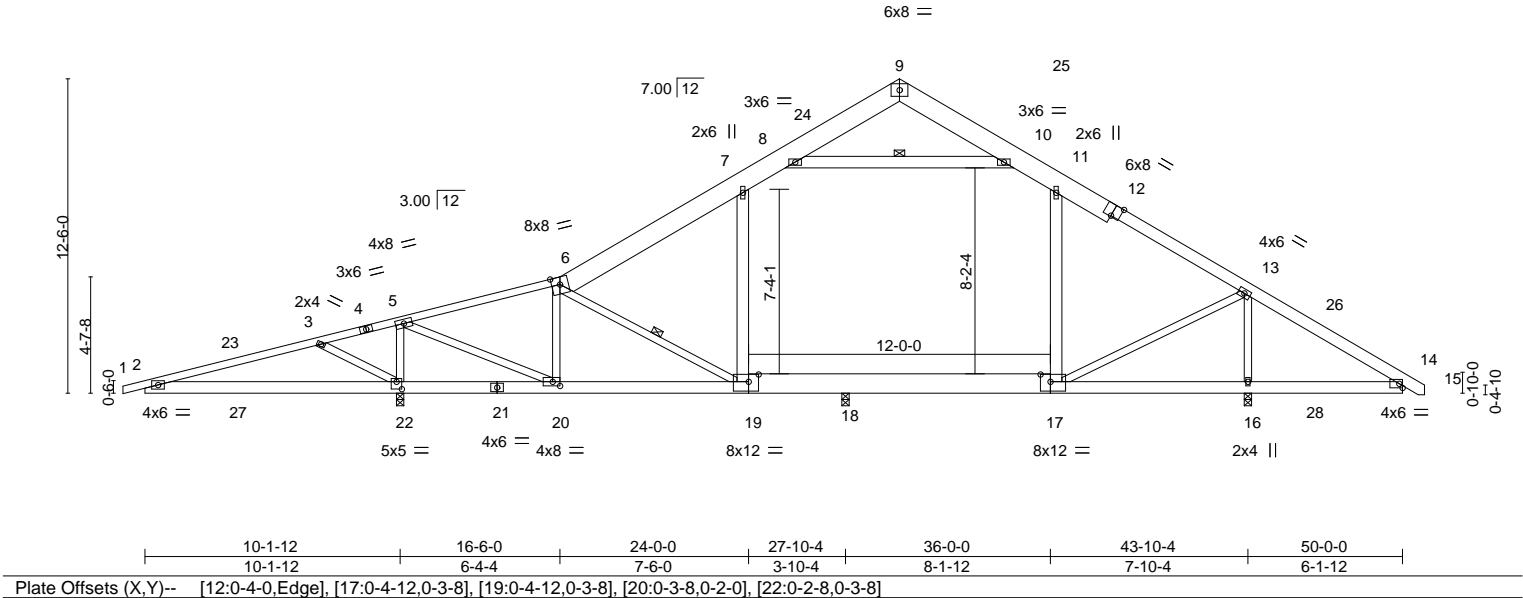


Plate Offsets (X,Y)--		[12:0-4-0,Edge], [17:0-4-12,0-3-8], [19:0-4-12,0-3-8], [20:0-3-8,0-2-0], [22:0-2-8,0-3-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2021/TPI2014	
	CSI.	
	TC 0.58	
	BC 0.56	
	WB 0.80	
	Matrix-S	
	DEFL.	in (loc) l/defl L/d
	Vert(LL) -0.13 19-20	>999 360
	Vert(CT) -0.28 19-20	>747 240
	Horz(CT) 0.02 16	n/a n/a
	Wind(LL) -0.15 19-20	>999 240
	PLATES	GRIP
	MT20	244/190
	Weight: 408 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
6-9,9-12: 2x10 SP No.1, 12-15: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
17-19: 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
7-19,11-17,8-10: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-11-5 oc bracing.
WEBS 1 Row at midpt 8-10, 6-19

REACTIONS.

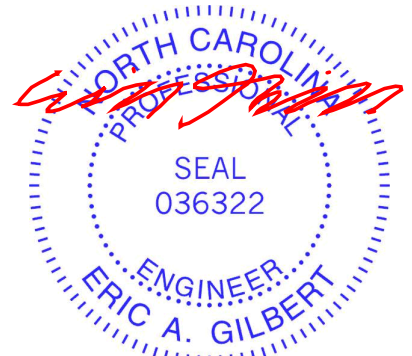
(size) 16=0-3-8, 22=0-3-8, 18=0-3-8
Max Horz 22=287(LC 9)
Max Uplift 16=40(LC 11), 22=390(LC 6)
Max Grav 16=1862(LC 19), 22=2260(LC 1), 18=1466(LC 18)

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

TOP CHORD 2-3=-1682/1243, 3-5=-1941/1648, 5-6=-969/0, 6-7=-1284/53, 7-8=-1070/100,
8-9=-305/239, 9-10=-366/226, 10-11=-1039/89, 11-13=-1160/0, 13-14=-602/535
BOT CHORD 2-22=-1147/1659, 20-22=-1577/1999, 19-20=0/1098, 18-19=0/881, 17-18=0/870,
16-17=-358/574, 14-16=-357/573
WEBS 7-19=-389/339, 11-17=-473/322, 13-17=-212/1267, 13-16=-1715/623, 8-10=-862/84,
6-19=-699/132, 6-20=-782/656, 5-22=-1791/803, 3-22=-490/382, 5-20=-1041/2390

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 25-7-3, Exterior(2R) 25-7-3 to 34-4-13, Interior(1) 34-4-13 to 46-4-3, Exterior(2E) 46-4-3 to 50-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Ceiling dead load (10.0 psf) on member(s). 6-7, 7-8, 10-11, 8-10; Wall dead load (5.0psf) on member(s). 7-19, 11-17
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 17-18
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 16 and 390 lb uplift at joint 22.
- 8) Attic room checked for L/360 deflection.



May 16,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A1A	ROOF TRUSS	1	2	173519067
Job Reference (optional)					

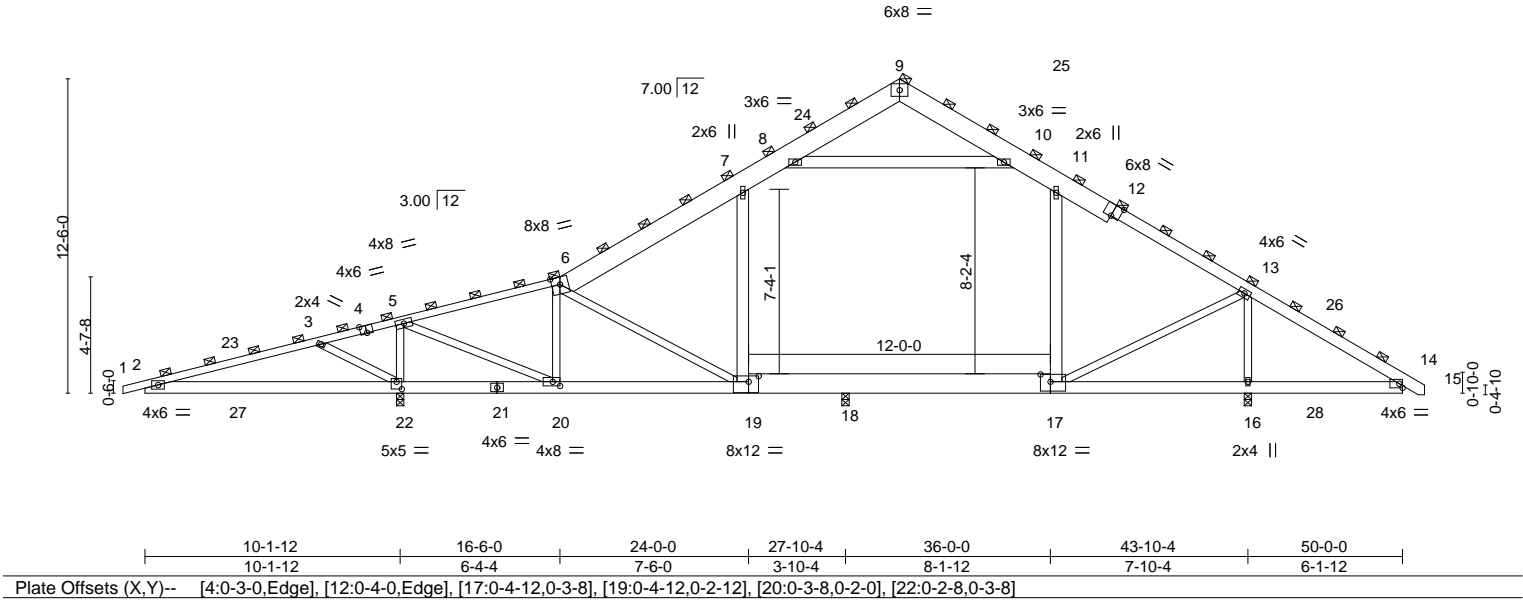
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:24 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

-0-10-8 7-0-0 10-1-12 16-6-0 24-0-0 30-0-0 36-0-0 43-10-4 50-0-0 50-10-8
0-10-8 7-0-0 3-1-12 6-4-4 7-6-0 6-0-0 6-0-0 7-10-4 6-1-12 0-10-8

Scale = 1:91.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.17 19-20 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38 19-20 >559 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02 16 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	-0.17 19-20 >999 240				
										Weight: 815 lb	FT = 20%

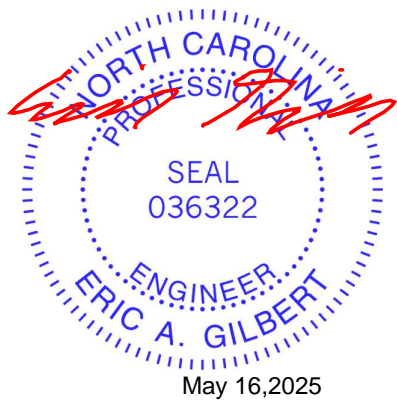
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1 *Except* 6-9,9-12: 2x10 SP No.1, 12-15: 2x6 SP No.1	TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	2x6 SP No.1 *Except* 17-19: 2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* 7-19,11-17,8-10: 2x6 SP No.1		

REACTIONS.	
(size)	16=0-3-8, 22=0-3-8, 18=0-3-8
Max Horz	22=574(LC 9)
Max Uplift	16=-79(LC 11), 22=-791(LC 6)
Max Grav	16=3702(LC 19), 22=4608(LC 1), 18=3610(LC 18)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3366/2492, 3-5=-3886/3305, 5-6=-2229/0, 6-7=-2647/115, 7-8=-2144/199, 8-9=-598/473, 9-10=-790/476, 10-11=-2195/202, 11-13=-2350/0, 13-14=-1212/1091
BOT CHORD	2-22=-2299/3320, 20-22=-3162/4002, 19-20=0/2474, 18-19=0/1836, 17-18=0/1805, 16-17=-741/1158, 14-16=-739/1157
WEBS	7-19=-616/611, 11-17=-1049/687, 13-17=-454/2658, 13-16=-3426/1245, 8-10=-1742/169, 6-19=-1336/184, 6-20=-1545/1304, 5-22=-3694/1653, 3-22=-982/764, 5-20=-2159/4963

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 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 0-7-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the Load CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 25-7-3, Exterior(2R) 25-7-3 to 34-4-13, Interior(1) 34-4-13 to 46-4-3, Exterior(2E) 46-4-3 to 50-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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). 6-7, 7-8, 10-11, 8-10; Wall dead load (5.0psf) on member(s).7-19, 11-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 17-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 16 and 791 lb uplift at joint 22.
 - 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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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A1A	ROOF TRUSS	1	2	173519067
					Job Reference (optional)

- NOTES-**
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 812 lb down and 193 lb up at 24-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-120, 6-8=-160, 8-9=-120, 9-10=-120, 10-11=-160, 11-15=-120, 2-19=-40, 17-19=-80, 14-17=-40, 8-10=-40

Drag: 7-19=-20, 11-17=-20

Concentrated Loads (lb)

Vert: 19=-461(F)



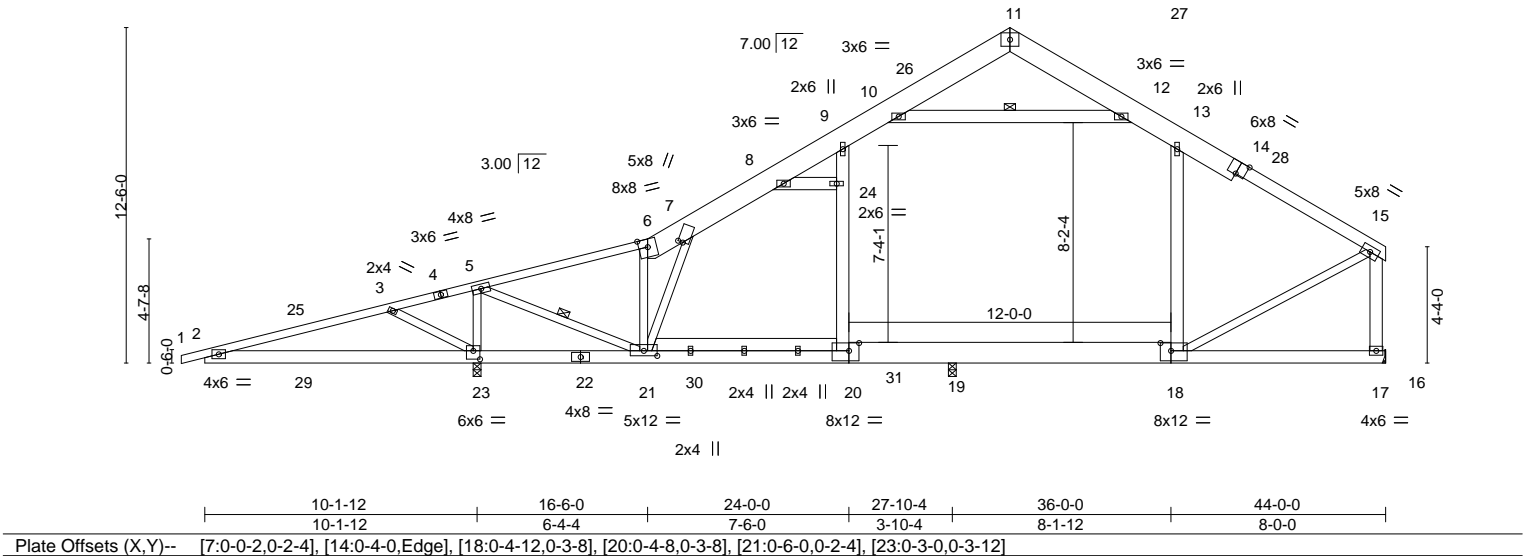
May 16,2025

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A2	ROOF TRUSS	5	1	173519068
Job Reference (optional)					

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:25 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zJC?f

0-10-8 7-0-0 10-1-12 16-6-0 18-0-0 24-0-0 30-0-0 36-0-0 44-0-0
0-10-8 7-0-0 3-1-12 6-4-4 1-6-0 6-0-0 6-0-0 6-0-0 8-0-0

6x8 = Scale = 1:85.9



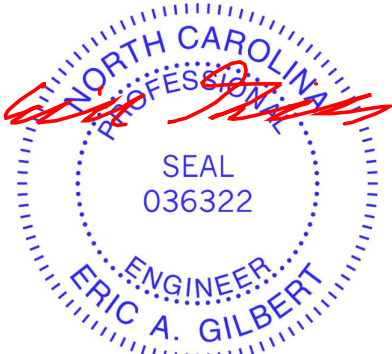
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.21 20-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.30 20-21	>716	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.01 17	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	-0.25 20-21	>837	240	Weight: 396 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 6-11,11-14: 2x10 SP No.1, 14-15: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 18-20: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-8-15 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-21,15-18,5-23,3-23,7-21,5-21: 2x4 SP No.2	WEBS 1 Row at midpt 10-12, 5-21

REACTIONS. (size) 17=Mechanical, 23=0-3-8, 19=0-3-8
Max Horz 23=282(LC 7)
Max Uplift 23=442(LC 6)
Max Grav 17=1554(LC 19), 23=2527(LC 2), 19=1462(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1687/1310, 3-5=-1954/1668, 5-6=-1148/0, 6-7=-1455/13, 7-8=-1517/308,
8-9=-1401/549, 9-10=-1238/327, 10-11=-289/269, 11-12=-318/271, 12-13=-1229/328,
13-15=-1387/225, 15-17=-1397/262
BOT CHORD 2-23=-1219/1664, 21-23=-1601/1828, 20-21=-6/1103, 19-20=-60/1110, 18-19=-64/1105
WEBS 6-21=-958/206, 20-24=-379/257, 9-24=-283/286, 13-18=-335/177, 15-18=-32/1162,
10-12=-1115/134, 5-23=-1937/1024, 3-23=-493/392, 8-24=-254/63, 7-21=-561/1797,
5-21=-1397/2752

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 25-7-3, Exterior(2R) 25-7-3 to 34-4-13, Interior(1) 34-4-13 to 39-2-15, Exterior(2E) 39-2-15 to 43-7-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 12-13, 10-12, 8-24; Wall dead load (5.0psf) on member(s).20-24, 13-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 18-19
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 442 lb uplift at joint 23.
 - Attic room checked for L/360 deflection.



May 16,2025

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett	173519069
J0325-1575	A2A	ROOF TRUSS	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:25 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8	7-0-0	10-1-12	16-6-0	24-0-0	30-0-0	36-0-0	44-0-0
0-10-8	7-0-0	3-1-12	6-4-4	7-6-0	6-0-0	6-0-0	8-0-0

6x8 =

Scale = 1:82.4

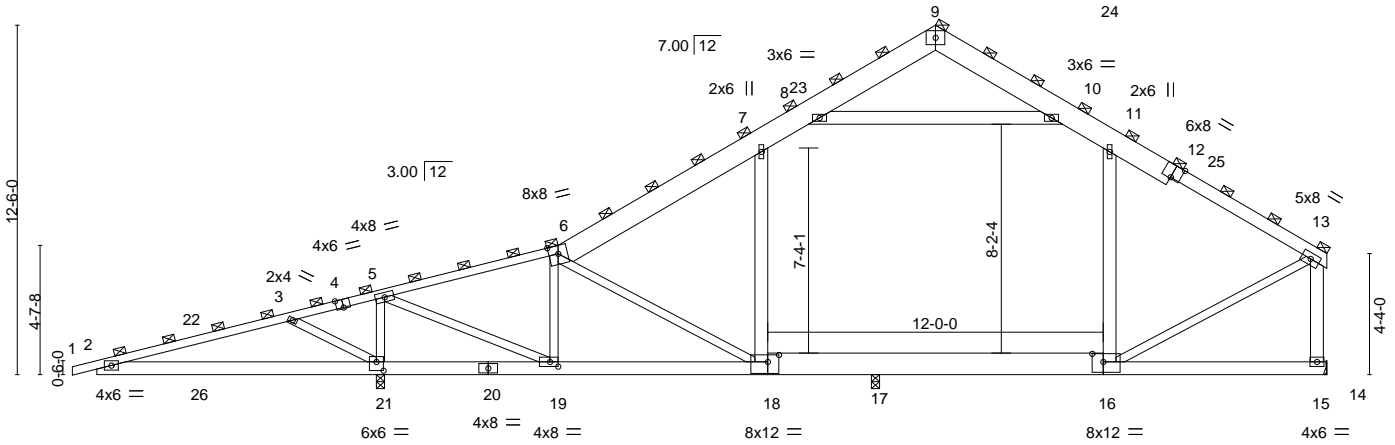


Plate Offsets (X,Y)--	[4:0-3-0,Edge], [12:0-4-0,Edge], [16:0-4-12,0-3-8], [18:0-4-12,0-3-0], [19:0-3-8,0-2-0], [21:0-3-0,0-3-12]
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LOADING (psf)	SPACING-	4-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.17 18-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.36 18-19	>594	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.01 17	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	-0.18 18-19	>999	240	Weight: 756 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
6-9,9-12: 2x10 SP No.1, 12-13: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
16-18: 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
7-18,11-16,13-15,8-10: 2x6 SP No.1

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-21,19-21.

REACTIONS.

(size) 15=Mechanical, 21=0-3-8, 17=0-3-8
Max Horz 21=563(LC 7)
Max Uplift 21=778(LC 6)
Max Grav 15=2819(LC 19), 21=4792(LC 1), 17=3459(LC 18)

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

TOP CHORD 2-3=-3358/2489, 3-5=-3876/3301, 5-6=-2429/0, 6-7=-2988/378, 7-8=-2385/621,
8-9=-504/348, 9-10=-672/309, 10-11=-2417/586, 11-13=-2632/370, 13-15=-2643/421
BOT CHORD 2-21=-2297/3313, 19-21=-3158/3621, 18-19=0/2619, 17-18=-65/2137, 16-17=-70/2118
WEBS 6-19=-1710/1518, 7-18=-554/434, 11-16=-815/396, 13-16=-22/2284, 8-10=-2114/453,
5-21=-3861/1861, 3-21=-980/761, 5-19=-2487/5227, 6-18=-1486/179

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 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 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 25-7-3, Exterior(2R) 25-7-3 to 34-4-13, Interior(1) 34-4-13 to 39-2-15, Exterior(2E) 39-2-15 to 43-7-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 6-7, 7-8, 10-11, 8-10; Wall dead load (5.0psf) on member(s).7-18, 11-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 16-17
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 778 lb uplift at joint 21.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 812 lb down and 193 lb up at joint 21. The design/selection of such connection device(s) is the responsibility of others.



May 16,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A2A	ROOF TRUSS	1	2	173519069
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:25 2025 Page 2
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

NOTES-
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-120, 6-8=-160, 8-9=-120, 9-10=-120, 10-11=-160, 11-13=-120, 2-18=-40, 16-18=-80, 14-16=-40, 8-10=-40
Drag: 7-18=-20, 11-16=-20
Concentrated Loads (lb)
Vert: 18=-461(F)



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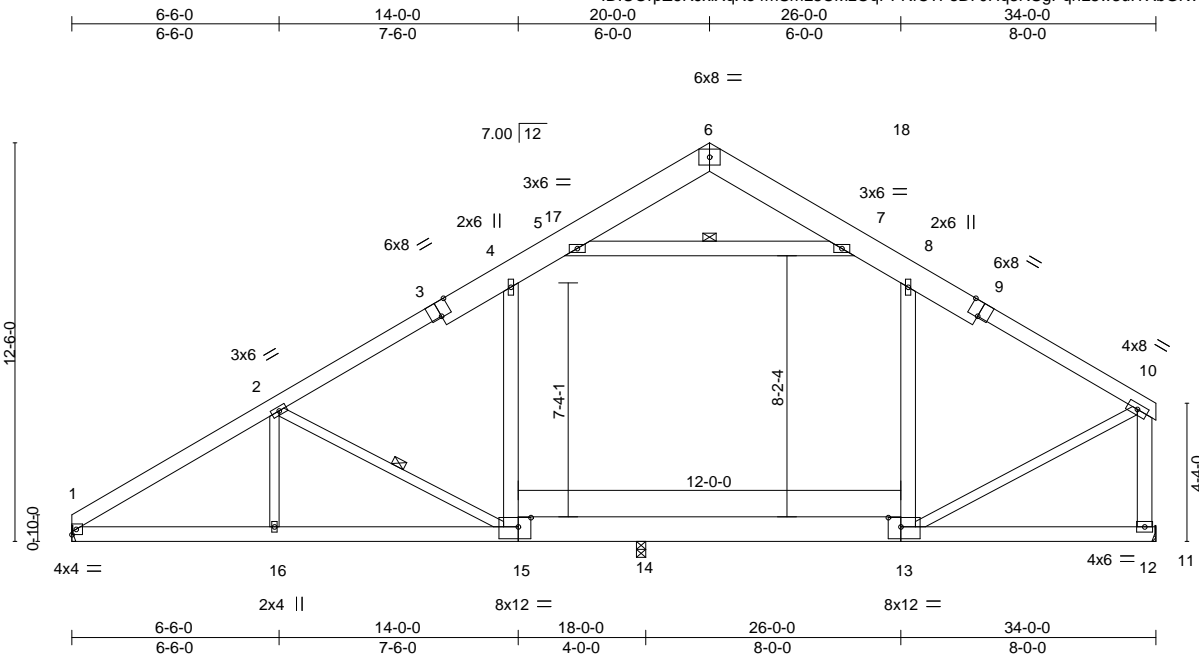
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A3	ROOF TRUSS	1	1	173519070
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:26 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:72.3

Plate Offsets (X,Y)--		[3:0-4-0,Edge], [9:0-4-0,Edge], [13:0-4-12,0-3-8], [15:0-4-12,0-3-8]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.22	15-16	>985	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.37	15-16	>573	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.17	15-16	>999	240	Weight: 318 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
9-10,1-3: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
13-15: 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-16,10-13,2-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-15, 5-7

REACTIONS.

(size) 1=Mechanical, 12=Mechanical, 14=0-3-8
Max Horz 1=279(LC 7)
Max Grav 1=1156(LC 19), 12=1427(LC 19), 14=1514(LC 18)

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

TOP CHORD 1-2=-1914/152, 2-4=-1453/98, 4-5=-1206/178, 6-7=-295/129, 7-8=-1186/195,
8-10=-1322/78, 10-12=-1336/76
BOT CHORD 1-16=-195/1651, 15-16=-195/1651, 14-15=0/1060, 13-14=0/1054
WEBS 2-16=0/379, 8-13=-404/220, 10-13=0/1125, 2-15=-773/240, 5-7=-1076/146

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-7-3, Exterior(2R) 15-7-3 to 24-4-13, Interior(1) 24-4-13 to 29-2-15, Exterior(2E) 29-2-15 to 33-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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. 14-15, 13-14
- Refer to girder(s) for truss to truss connections.
- Attic room checked for L/360 deflection.



May 16,2025

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett	173519071
J0325-1575	A4	ROOF TRUSS	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:26 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

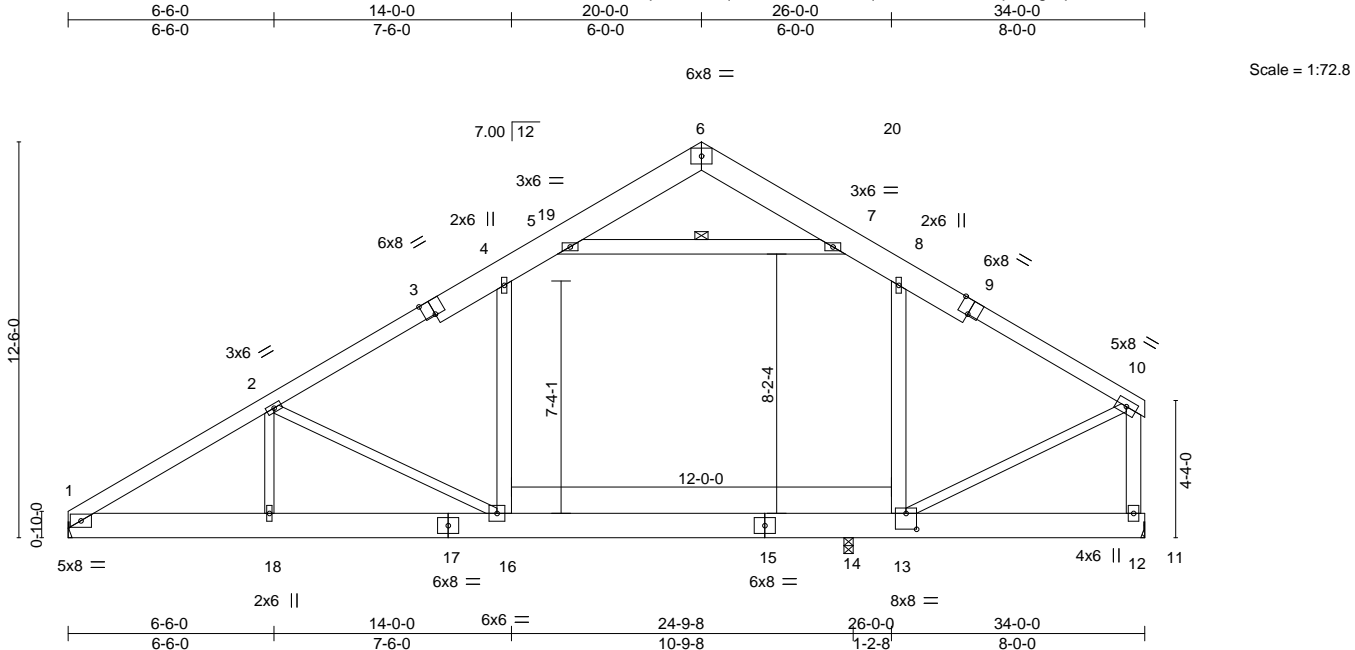


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [9:0-4-0,Edge], [13:0-4-0,0-6-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.23 14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.44 14-16	>673	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03 12	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.13 16	>999	240	Weight: 350 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
9-10,1-3: 2x6 SP 2400F 2.OE
BOT CHORD 2x10 SP 2400F 2.OE
WEBS 2x6 SP No.1 *Except*
10-13,2-16,2-18: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 6-0-0 oc bracing: 12-13.
1 Row at midpt 5-7

REACTIONS.

(size) 1=Mechanical, 12=Mechanical, 14=0-3-8
Max Horz 1=275(LC 7)
Max Uplift 14=474(LC 24)
Max Grav 1=1899(LC 18), 12=2186(LC 18), 14=370(LC 27)

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

TOP CHORD 1-2=-3302/160, 2-4=-2581/112, 4-5=-1974/203, 7-8=-2139/206, 8-10=-2533/103,
10-12=-2480/102
BOT CHORD 1-18=-198/2949, 16-18=-198/2949, 14-16=0/2184, 13-14=0/2184
WEBS 4-16=0/763, 8-13=-254/449, 10-13=0/2499, 5-7=-2236/164, 2-16=-863/225, 2-18=0/367

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-7-3, Exterior(2R) 15-7-3 to 24-4-13, Interior(1) 24-4-13 to 29-2-15, Exterior(2E) 29-2-15 to 33-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-16, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16, 13-14
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 14.
- 9) Attic room checked for L/360 deflection.



May 16,2025

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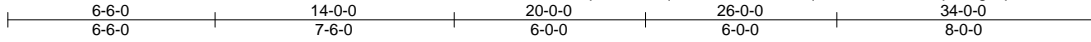
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A5	ROOF TRUSS	8	1	173519072
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



6x8 =

Scale = 1:72.3

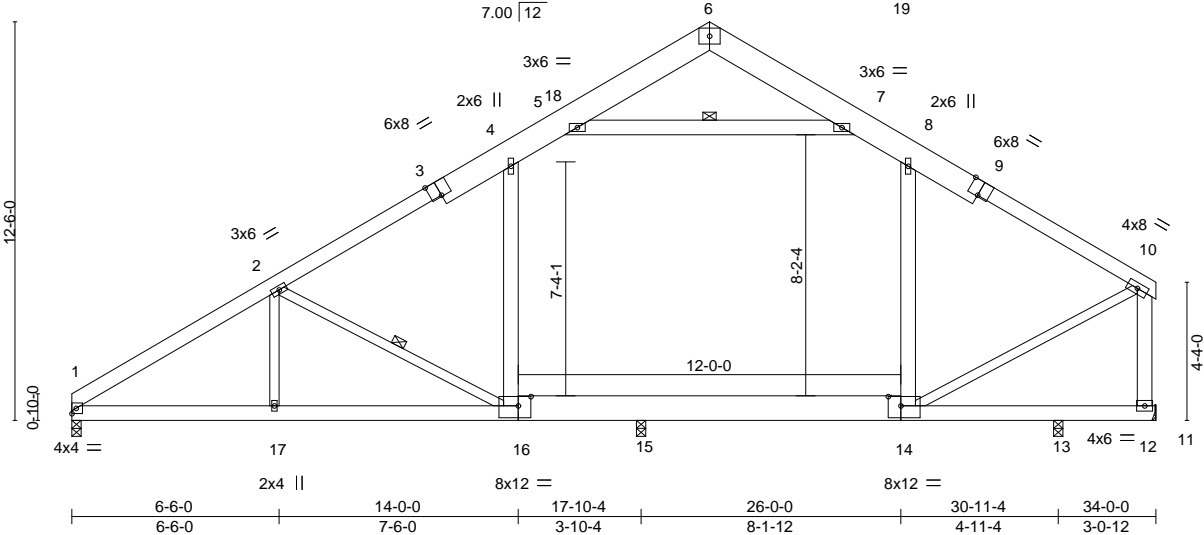


Plate Offsets (X,Y)--		[3:0-4-0,Edge], [9:0-4-0,Edge], [14:0-4-12,0-3-8], [16:0-4-12,0-3-8]							
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.33	Vert(LL)	-0.20 16-17	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.72	Vert(CT)	-0.36 16-17	>598	240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.33	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014	Matrix-S	Wind(LL)	0.16 16-17	>999	240	Weight: 318 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
9-10,1-3: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
14-16: 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-16,10-14,2-17: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.
WEBS 1 Row at midpt 2-16, 5-7

REACTIONS.

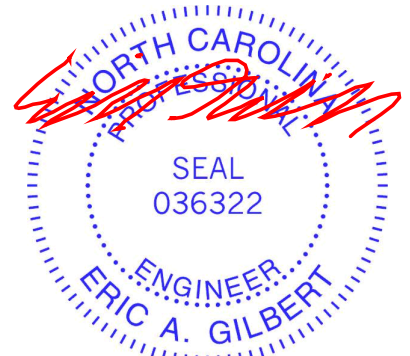
All bearings 0-3-8 except (jt=length) 12=Mechanical.
(lb) - Max Horz 1=279(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 13=134(LC 24)
Max Grav All reactions 250 lb or less at joint(s) 13 except 1=1157(LC 1), 12=1283(LC 18), 15=1487(LC 18)

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

TOP CHORD 1-2=-1899/174, 2-4=-1382/128, 4-5=-1148/202, 6-7=-293/123, 7-8=-1134/217, 8-10=-1245/110, 10-12=-1272/103
BOT CHORD 1-17=-213/1656, 16-17=-214/1656, 15-16=-7/1025, 14-15=-6/1014
WEBS 2-16=-742/231, 8-14=-399/197, 10-14=0/1108, 2-17=0/381, 5-7=-1001/178

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-7-3, Exterior(2R) 15-7-3 to 24-4-13, Interior(1) 24-4-13 to 29-2-15, Exterior(2E) 29-2-15 to 33-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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).4-16, 8-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16, 14-15
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 13.
- Attic room checked for L/360 deflection.



May 16,2025

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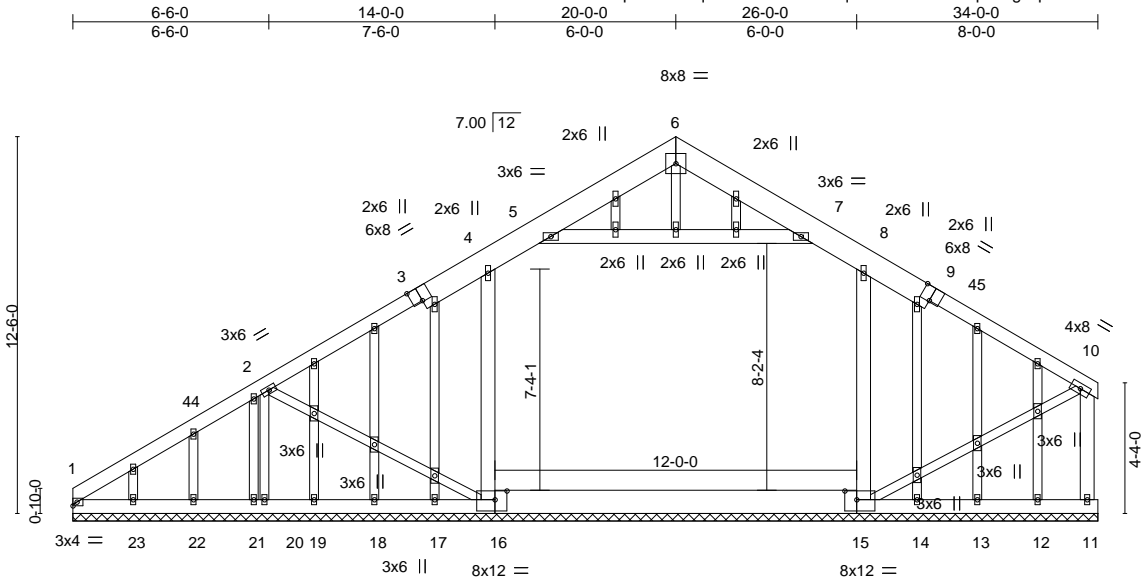
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	A5GE	GABLE	2	1	173519073
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:28 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:76.4

Plate Offsets (X,Y)--	[3:0-4-0,Edge], [9:0-4-0,Edge], [15:0-4-12,0-3-8], [16:0-4-12,0-3-8]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 384 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
9-10,1-3: 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
15-16: 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-16,10-15,2-20: 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 34-0-0.
(lb) - Max Horz 1=347(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 23 except 16=160(LC 10), 15=192(LC 11), 20=227(LC 10), 17=446(LC 16), 14=443(LC 16)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 21, 22, 23, 13, 12 except 1=268(LC 19), 16=1541(LC 18), 15=1507(LC 19), 11=390(LC 1), 20=482(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=374/127, 2-4=381/103, 4-5=397/158, 5-6=377/145, 6-7=385/154, 7-8=405/168, 8-10=314/60, 10-11=361/59
BOT CHORD 16-17=96/256
WEBS 4-16=762/285, 8-15=785/303, 2-20=451/243

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-9-4, Exterior(2R) 13-9-4 to 26-2-12, Interior(1) 26-2-12 to 29-2-15, Exterior(2E) 29-2-15 to 33-7-12 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.
- 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-16, 8-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 23 except (jt=lb) 16=160, 15=192, 20=227, 17=446, 14=443.
- Attic room checked for L/360 deflection.



May 16,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	B1	COMMON	2	1	173519074
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:28 2025 Page 1

ID:UOrpZ6RjXiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

0-10-8 6-8-8 10-9-0 14-9-8 21-6-0 22-4-8
0-10-8 6-8-8 4-0-8 4-0-8 6-8-8 0-10-8

4x6 =

Scale = 1:52.9

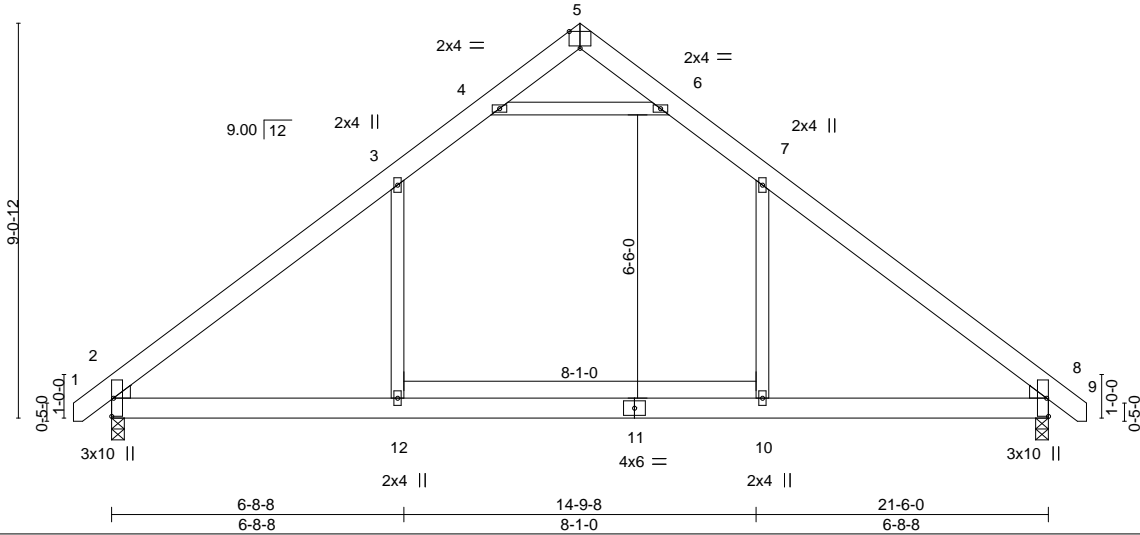


Plate Offsets (X,Y)--		[5:0-3-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.52		Vert(LL)	-0.15 10-12	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.38		Vert(CT)	-0.22 10-12	>999	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.38		Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.12 2-12	>999	240	Weight: 141 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

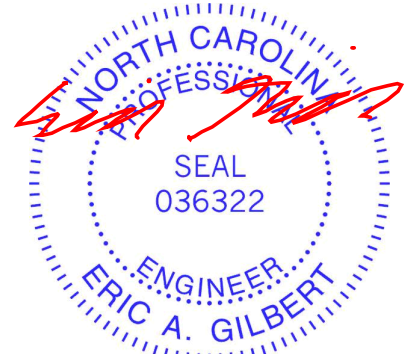
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-207(LC 8)
Max Uplift 2=-73(LC 10), 8=-73(LC 11)
Max Grav 2=1116(LC 17), 8=1116(LC 18)

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

TOP CHORD 2-3=-1390/233, 3-4=-882/297, 4-5=-77/382, 5-6=-77/383, 6-7=-881/297, 7-8=-1390/233
BOT CHORD 2-12=-48/972, 10-12=-48/972, 8-10=-48/972
WEBS 7-10=0/533, 3-12=0/533, 4-6=-1357/468

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 6-4-3, Exterior(2R) 6-4-3 to 14-11-4, Interior(1) 14-11-4 to 17-10-7, Exterior(2E) 17-10-7 to 22-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 2, 8.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 16, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	B1GE	GABLE	1	1	173519075
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

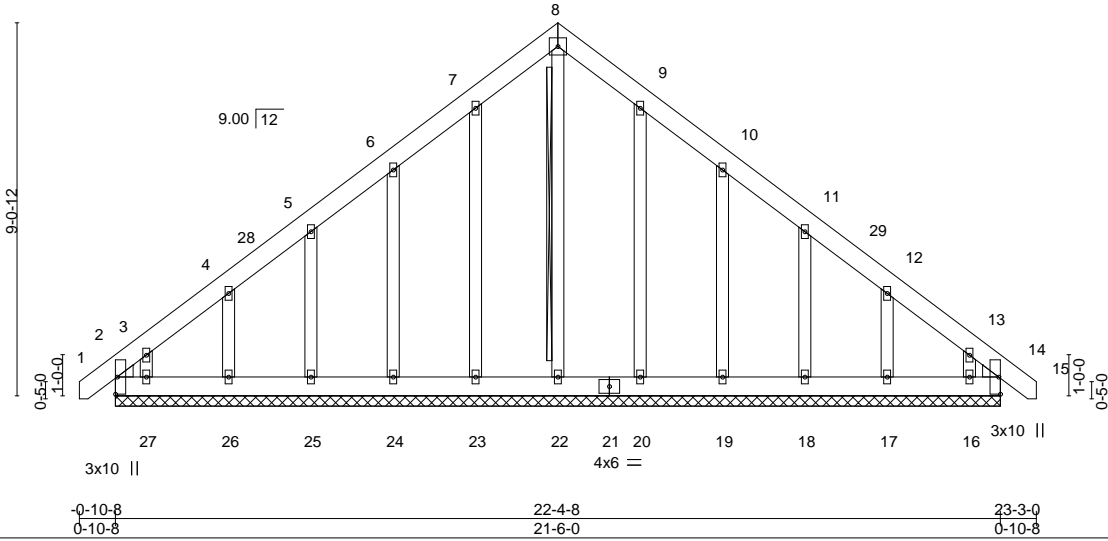
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:29 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

-0-10-8 11-7-8 22-4-8 23-3-0
0-10-8 10-9-0 10-9-0 0-10-8

5x5 =

Scale = 1:56.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	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 0.12	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 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.
WEBS T-Brace: 2x4 SPF No.2 - 8-22
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

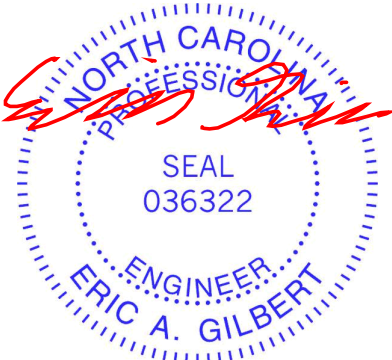
All bearings 21-6-0.
(lb) - Max Horz 2=-259(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 14, 23, 25, 20, 18 except 2=-158(LC 8), 24=-113(LC 10), 26=-114(LC 10), 27=-204(LC 10), 19=-115(LC 11), 17=-112(LC 11), 16=-183(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 14, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16 except 2=272(LC 10)

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

TOP CHORD 2-3=-358/235, 13-14=-297/146

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-4 to 3-7-9, Exterior(2N) 3-7-9 to 6-4-3, Corner(3R) 6-4-3 to 15-1-13, Exterior(2N) 15-1-13 to 17-10-7, Corner(3E) 17-10-7 to 22-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 23, 25, 20, 18 except (jt=lb) 2=158, 24=113, 26=114, 27=204, 19=115, 17=112, 16=183.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	B2	COMMON	3	1	173519076
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RjXiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zJC?f

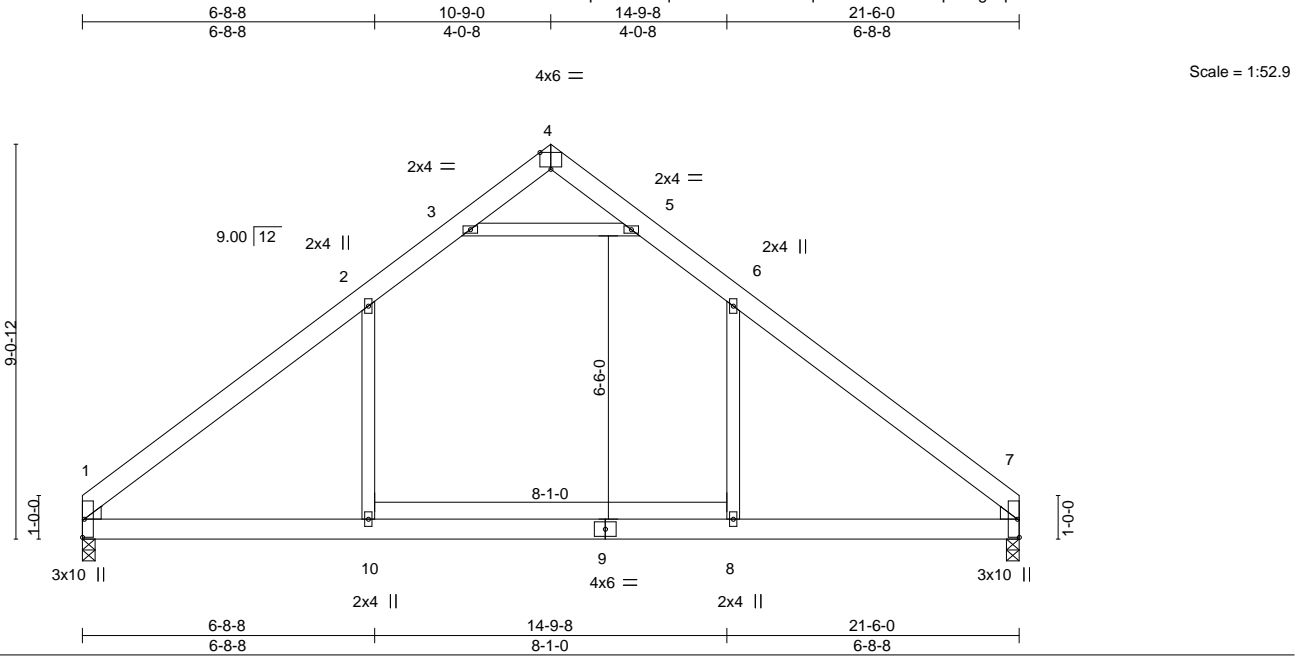


Plate Offsets (X,Y)--		[4:0-3-0,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.15	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.23	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.12	1-10	>999	240	Weight: 137 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 5-11-7 oc purlins.

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-205(LC 8)
Max Uplift 1=-60(LC 10), 7=-60(LC 11)
Max Grav 1=1065(LC 17), 7=1065(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1390/233, 2-3=-885/300, 3-4=-85/391, 4-5=-85/392, 5-6=-884/300, 6-7=-1390/233
BOT CHORD 1-10=-58/975, 8-10=-58/975, 7-8=-58/975
WEBS 6-8=0/528, 2-10=0/528, 3-5=-1372/481

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 6-4-3, Exterior(2R) 6-4-3 to 14-11-4, Interior(1) 14-11-4 to 16-11-7, Exterior(2E) 16-11-7 to 21-4-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 1, 7.



May 16,2025

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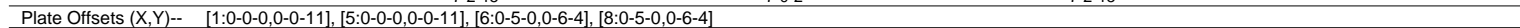
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ID:UOrpZ6RJxiXgXe4mSmL8CMzOqPl-RfC?PsB70Hg3NSqPqnL8w3uITXbGKWrCDoj7J4zJC?f



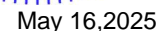
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=203(LC 28)
Max Grav 1=8568(LC 2), 5=9429(LC 2)

TOP CHORD 1-2=-10285/0, 2-3=-10014/0, 3-4=-10737/0, 4-5=-11017/0
BOT CHORD 1-8=0/7831, 6-8=0/5771, 5-6=0/8398
WEBS 2-8=-84/560, 3-8=0/5779, 3-6=0/7318, 4-6=-71/587

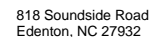
- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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 BC DL = 10.0psf.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1396 lb down at 2-1-4, 1396 lb down at 3-5-4, 1396 lb down at 5-5-4, 1396 lb down at 7-5-4, 1374 lb down at 9-5-4, 1279 lb down at 11-5-4, 1962 lb down at 13-5-4, 1962 lb down at 15-5-4, and 1962 lb down at 17-5-4, and 1962 lb down at 19-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-20, 1-3=-60, 3-5=-60



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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	B3GDR	FINK	1	3	173519077
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-1234(B) 9=-1234(B) 10=-1234(B) 11=-1234(B) 13=-1234(B) 14=-1206(B) 16=-1855(B) 17=-1855(B) 18=-1855(B) 19=-1855(B)



May 16,2025

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	C1	KINGPOST	1	1	173519078
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

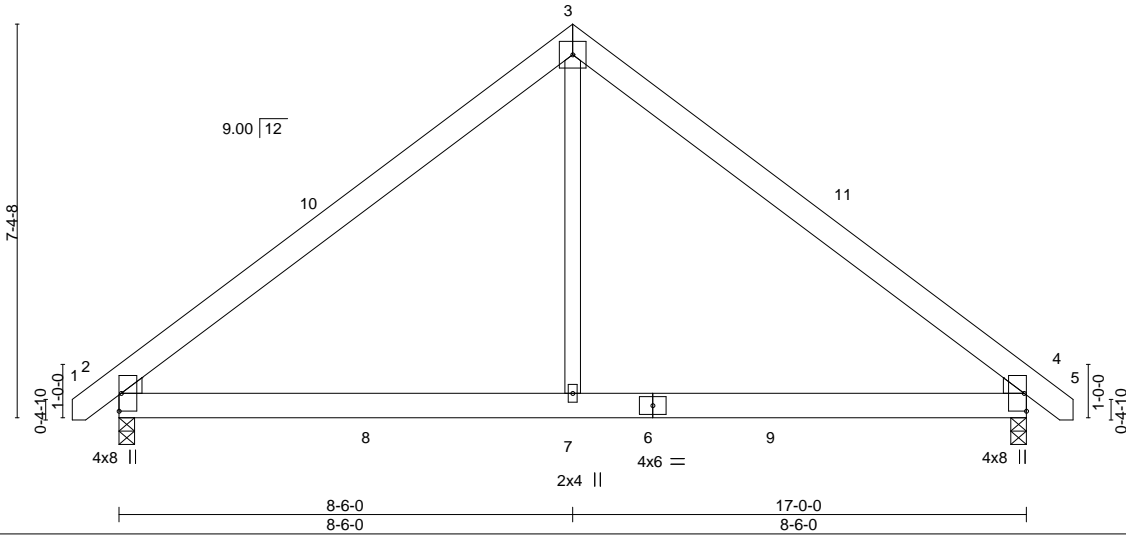
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:31 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

0-10-8 8-6-0 17-0-0 17-10-8
0-10-8 8-6-0 8-6-0 0-10-8

6x6 =

Scale = 1:43.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.05	2-7	>999	360	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.09	2-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.03	2-7	>999	240		
										Weight: 106 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=166(LC 8)
Max Uplift 2=-59(LC 10), 4=-59(LC 11)
Max Grav 2=903(LC 17), 4=903(LC 18)

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

TOP CHORD 2-3=-968/209, 3-4=-968/209
BOT CHORD 2-7=0/703, 4-7=0/703
WEBS 3-7=0/678

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 4-1-3, Exterior(2R) 4-1-3 to 12-10-13, Interior(1) 12-10-13 to 13-4-3, Exterior(2E) 13-4-3 to 17-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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, 4.



May 16,2025

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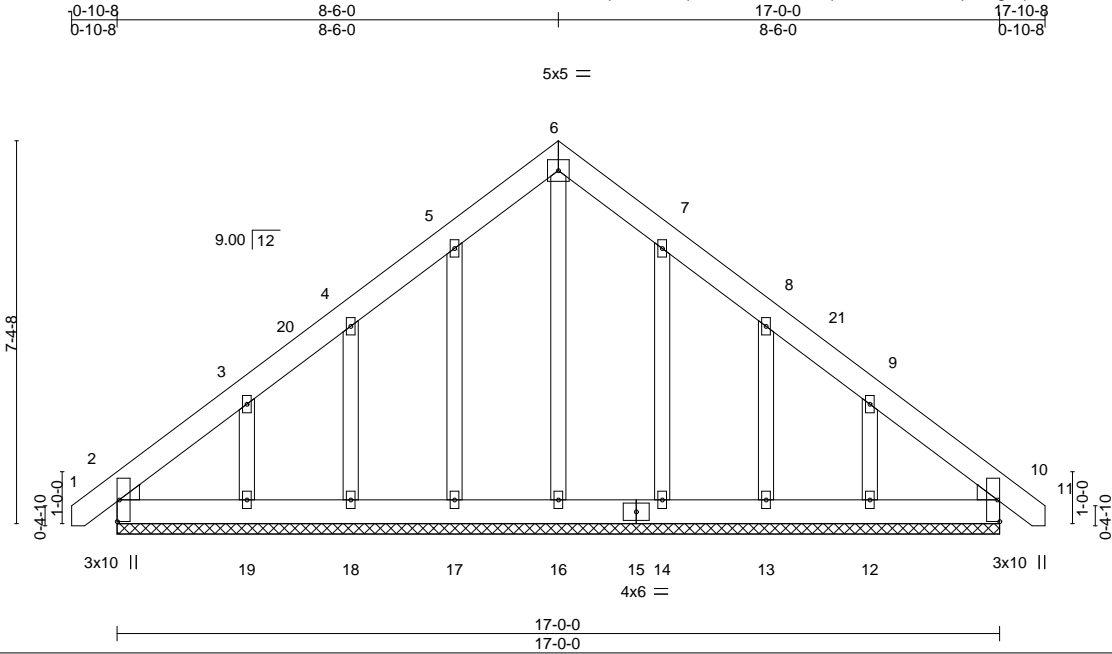
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	C1GE	GABLE	1	1	173519079
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:31 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:44.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 137 lb	FT = 20%

LUMBER-

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

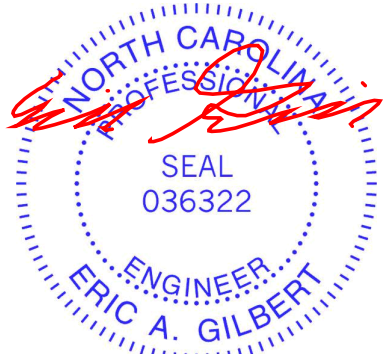
REACTIONS.

All bearings 17-0-0.
(lb) - Max Horz 2=208(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 17, 14 except 18=101(LC 10), 19=168(LC 10), 13=102(LC 11), 12=162(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 16, 17, 18, 19, 14, 13, 12

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-0 to 3-7-13, Exterior(2N) 3-7-13 to 4-1-3, Corner(3R) 4-1-3 to 12-10-13, Exterior(2N) 12-10-13 to 13-4-3, Corner(3E) 13-4-3 to 17-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 17, 14 except (jt=lb) 18=101, 19=168, 13=102, 12=162.



May 16,2025

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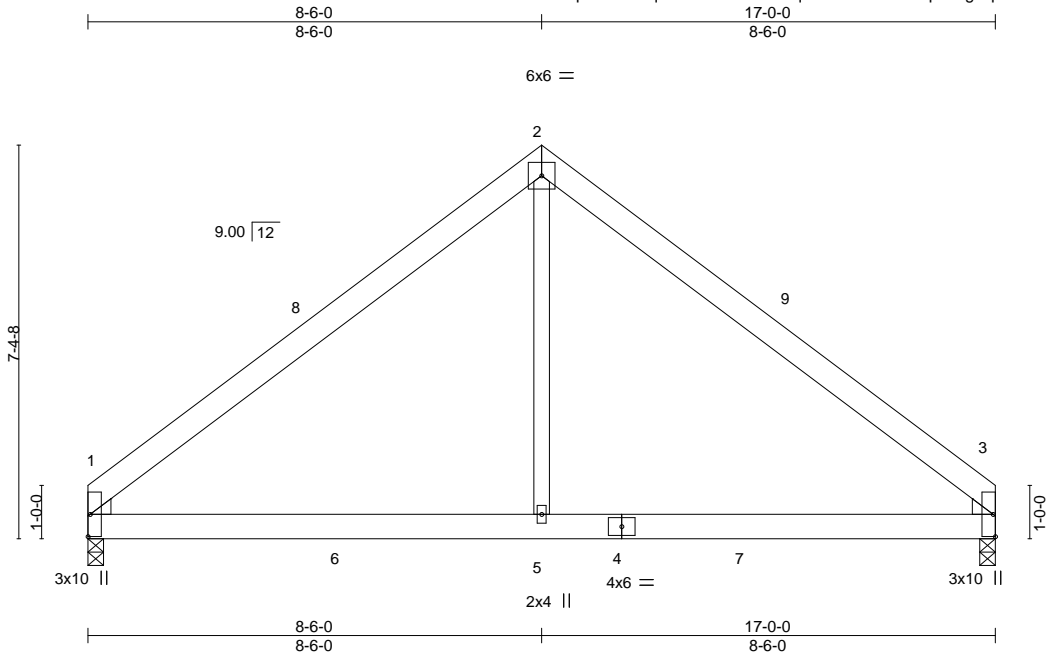
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	C2	KINGPOST	3	1	173519080
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:31 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:43.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.05	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.09	1-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.02	1-5	>999	240		
									Weight: 102 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
Max Horz 1=164(LC 9)
Max Uplift 1=-47(LC 10), 3=-47(LC 11)
Max Grav 1=853(LC 17), 3=853(LC 18)

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

TOP CHORD 1-2=-970/202, 2-3=-970/202
BOT CHORD 1-5=-4/705, 3-5=-4/705
WEBS 2-5=0/681

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Exterior(2R) 4-6-9 to 12-5-7, Exterior(2E) 12-5-7 to 16-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 1, 3.



May 16,2025

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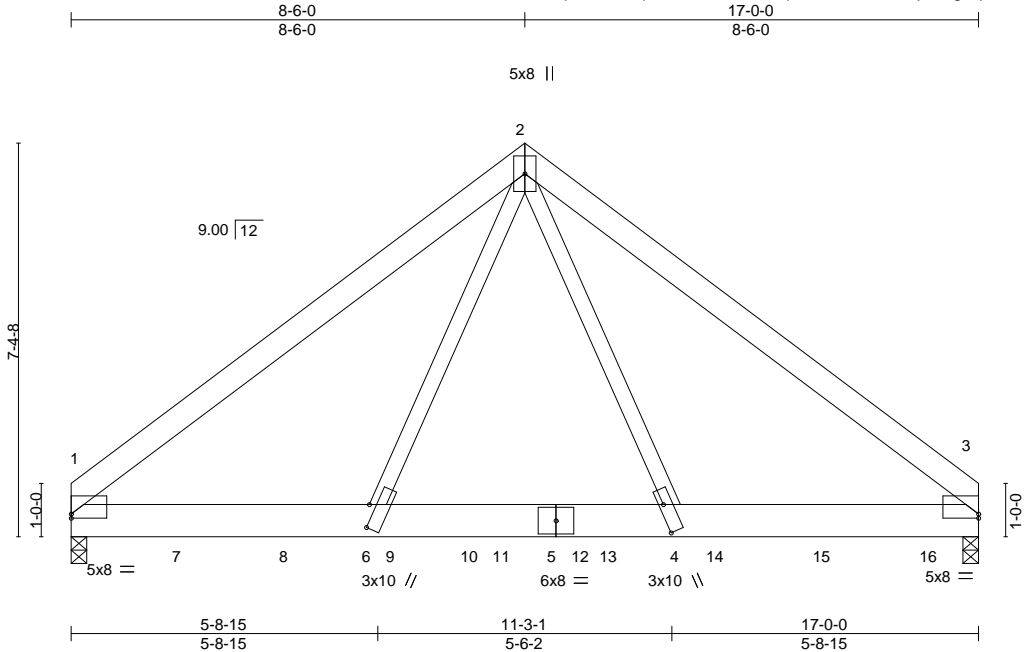
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	C3GDR	QUEENPOST	1	2	173519081
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:32 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:43.2

Plate Offsets (X,Y)--		[1:0-0-0,0-0-15], [3:0-0-0,0-0-15], [4:0-6-8,0-1-0], [6:0-5-0,0-1-8]									
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 0.62		Vert(LL) -0.05	4-6	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.45		Vert(CT) -0.12	4-6	>999	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.54		Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-S		Wind(LL) -0.01	6	>999	240	Weight: 248 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
Max Horz 1=-163(LC 25)
Max Grav 1=5331(LC 2), 3=5995(LC 2)

FORCES.

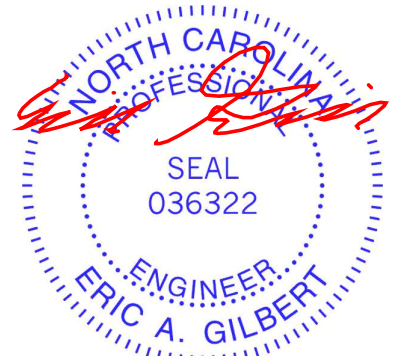
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6756/0, 2-3=-6795/0
BOT CHORD 1-6=0/5177, 4-6=0/3500, 3-4=0/5209
WEBS 2-6=0/4295, 2-4=0/4375

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: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1230 lb down at 2-0-12, 1230 lb down at 4-0-12, 1230 lb down at 6-0-12, 1230 lb down at 8-0-12, 1230 lb down at 10-0-12, 1230 lb down at 12-0-12, and 1230 lb down at 14-0-12, and 1232 lb down at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 1-2=-60, 2-3=-60
Concentrated Loads (lb)
Vert: 7=-1218(B) 8=-1218(B) 9=-1218(B) 11=-1218(B) 13=-1218(B) 14=-1218(B) 15=-1218(B) 16=-1220(B)



May 16, 2025

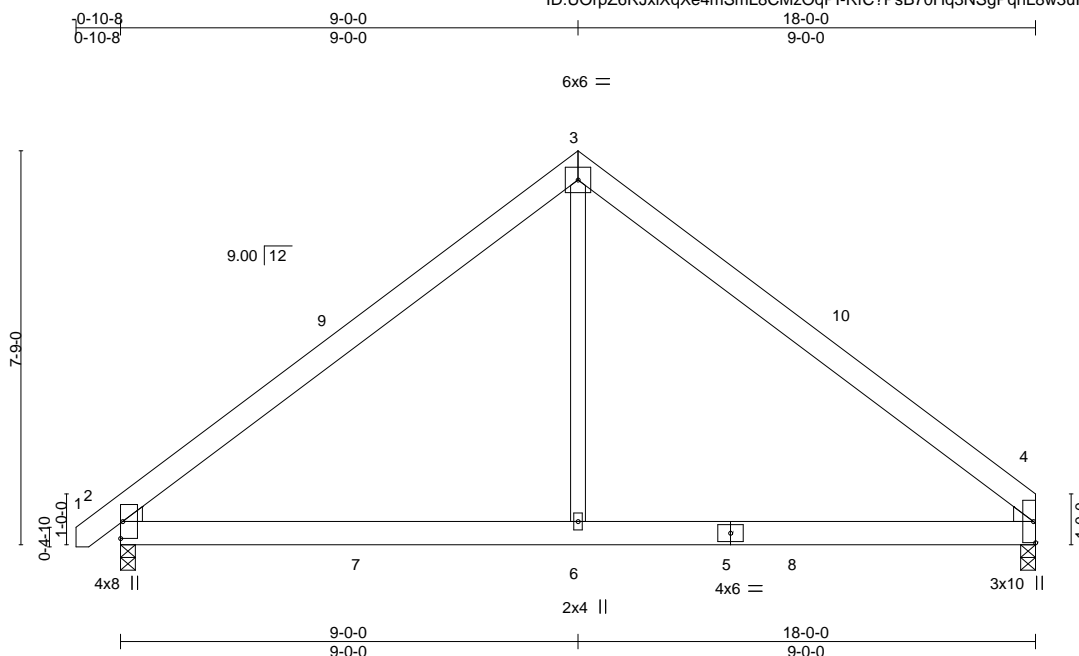
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:32 2025 Page 1
ID:UOrpZ6RjXiXqXe4mSmL8CMzQqPl-RfC?PsB70Hq3NSqPqnL8w3uITxbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.07 2-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.11 2-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.04 2-6 >999 240	Weight: 110 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

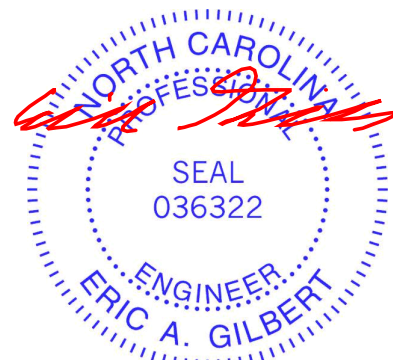
(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=175(LC 7)
 Max Uplift 2=-62(LC 10), 4=-49(LC 11)
 Max Grav 2=963(LC 17), 4=911(LC 18)

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

TOP CHORD 2-3=-1039/215, 3-4=-1038/211
BOT CHORD 2-6=-4/756, 4-6=-4/756
WEBS 3-6=0/736

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCFL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 4-7-3, Exterior(2R) 4-7-3 to 13-5-7, Exterior(2E) 13-5-7 to 17-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 2, 4.



May 16, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	D1GE	GABLE	1	1	173519083
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

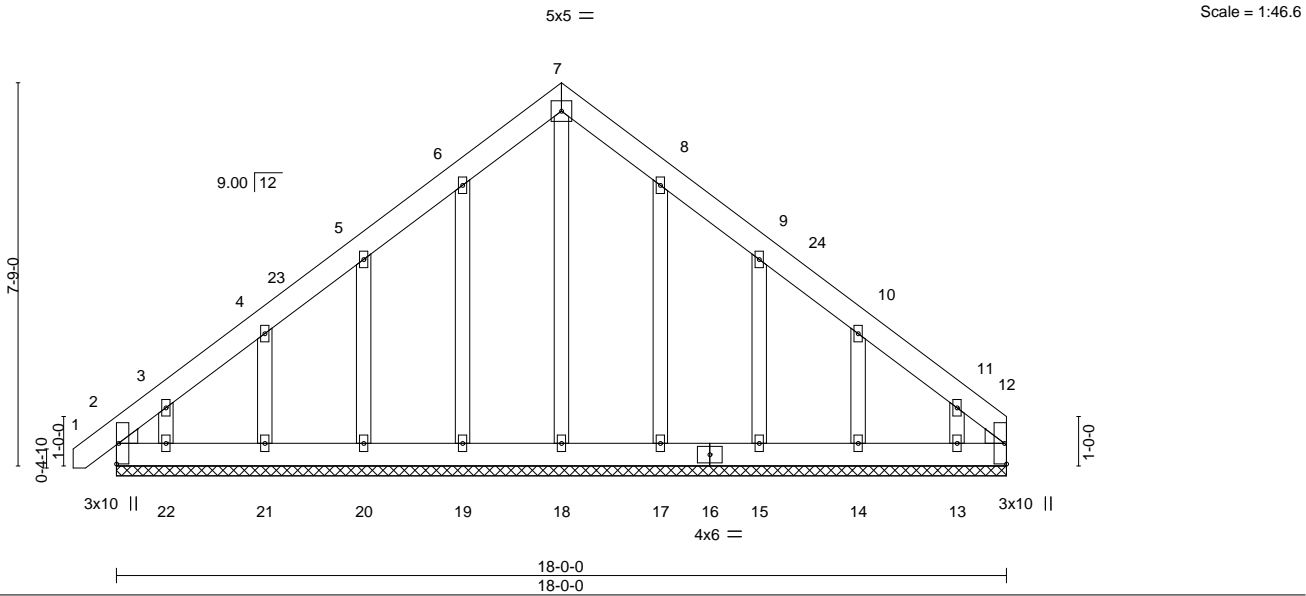
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:33 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

0-10-8
0-10-8

9-0-0
9-0-0

18-0-0
9-0-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 146 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 18'-0-0.
(lb) - Max Horz 2=218(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 12, 19, 17 except 2=-101(LC 6), 20=-109(LC 10), 21=-109(LC 10), 22=-165(LC 10), 15=-112(LC 11), 14=-107(LC 11), 13=-160(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 15, 14, 13

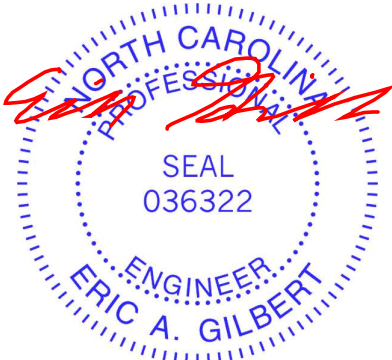
FORCES.

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

TOP CHORD 2-3=-279/188

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-0 to 3-7-13, Exterior(2N) 3-7-13 to 4-7-3, Corner(3R) 4-7-3 to 13-7-3, Corner(3E) 13-7-3 to 18-0-0 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" 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" tall by 2'-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) 12, 19, 17 except (jt=lb) 2=101, 20=109, 21=109, 22=165, 15=112, 14=107, 13=160.



May 16,2025

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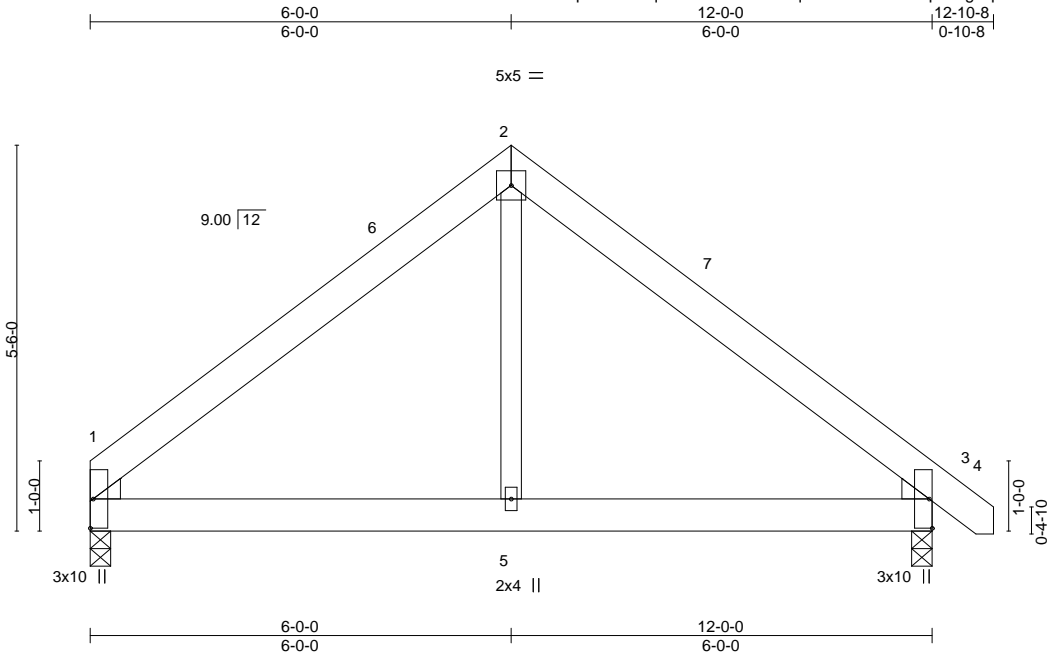
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	E1	COMMON	2	1	173519084
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:33 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:32.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.01	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	1-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.01	3-5	>999	240	Weight: 75 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 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

(size) 3=0-3-8, 1=0-3-8
Max Horz 1=-121(LC 6)
Max Uplift 3=-45(LC 11), 1=-32(LC 10)
Max Grav 3=524(LC 1), 1=466(LC 1)

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

TOP CHORD 1-2=-523/188, 2-3=-527/189
BOT CHORD 1-5=0/329, 3-5=0/329
WEBS 2-5=0/285

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Exterior(2R) 4-6-9 to 8-4-3, Exterior(2E) 8-4-3 to 12-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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) 3, 1.



May 16,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	E1GE	GABLE	1	1	173519085
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

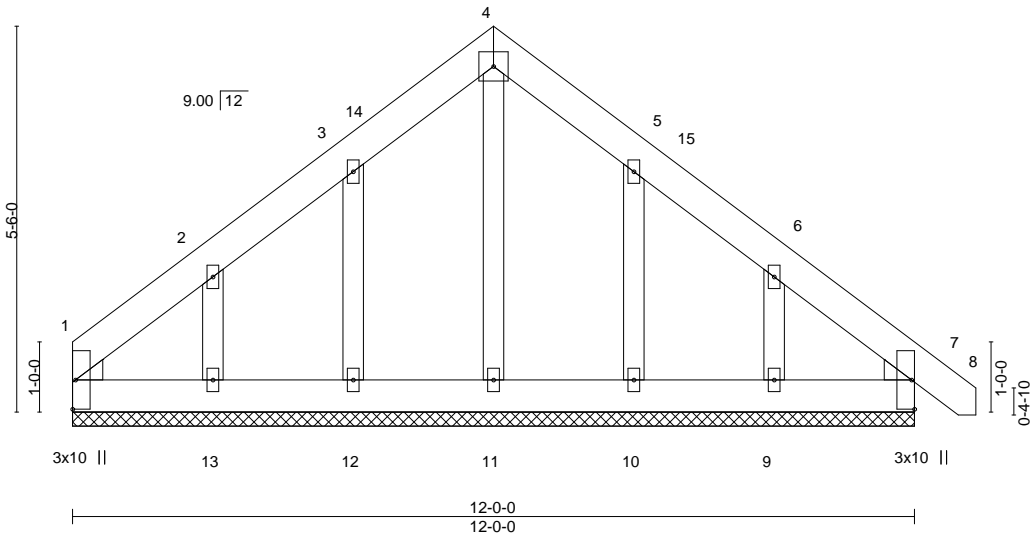
6-0-0
6-0-0

12-0-0
6-0-0

12-10-8
0-10-8

5x5 =

Scale = 1:32.8



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 0.03	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 89 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 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 12-0-0.
(lb) - Max Horz 1=-151(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 7, 1, 12, 10 except 13=-154(LC 10), 9=-144(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 7, 1, 11, 12, 13, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-13=-161/269, 6-9=-158/250

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 4-4-13, Corner(3R) 4-4-13 to 8-4-3, Corner(3E) 8-4-3 to 12-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1, 12, 10 except (jt=lb) 13=154, 9=144.



May 16,2025

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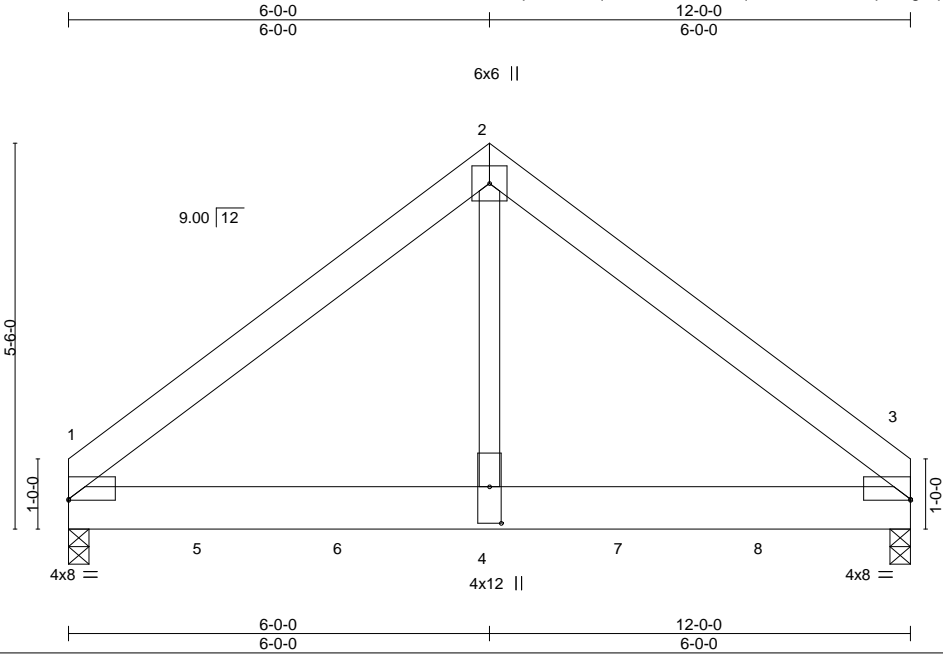
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	E2GDR	COMMON GIRDER	1	2	173519086

Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:32.8

Plate Offsets (X,Y)--		[1:0-0-0,0-0-3], [3:0-0-0,0-0-3], [4:0-6-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.51		Vert(LL) -0.05	3-4	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.83		Vert(CT) -0.10	3-4	>999	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.71		Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0		Code IRC2021/TP12014		Matrix-S		Wind(LL) -0.01	3-4	>999	240	Weight: 160 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
Max Horz 1=-118(LC 6)
Max Grav 1=4206(LC 2), 3=4563(LC 2)

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

TOP CHORD 1-2=-4865/0, 2-3=-4855/0
BOT CHORD 1-4=0/3698, 3-4=0/3698
WEBS 2-4=0/5778

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: 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1134 lb down at 1-11-4, 1714 lb down at 3-11-4, 1714 lb down at 5-11-4, and 1714 lb down at 7-11-4, and 1714 lb down at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-1640(F) 5=-1134(F) 6=-1640(F) 7=-1640(F) 8=-1640(F)



May 16, 2025

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	G1	COMMON	2	1	173519087
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

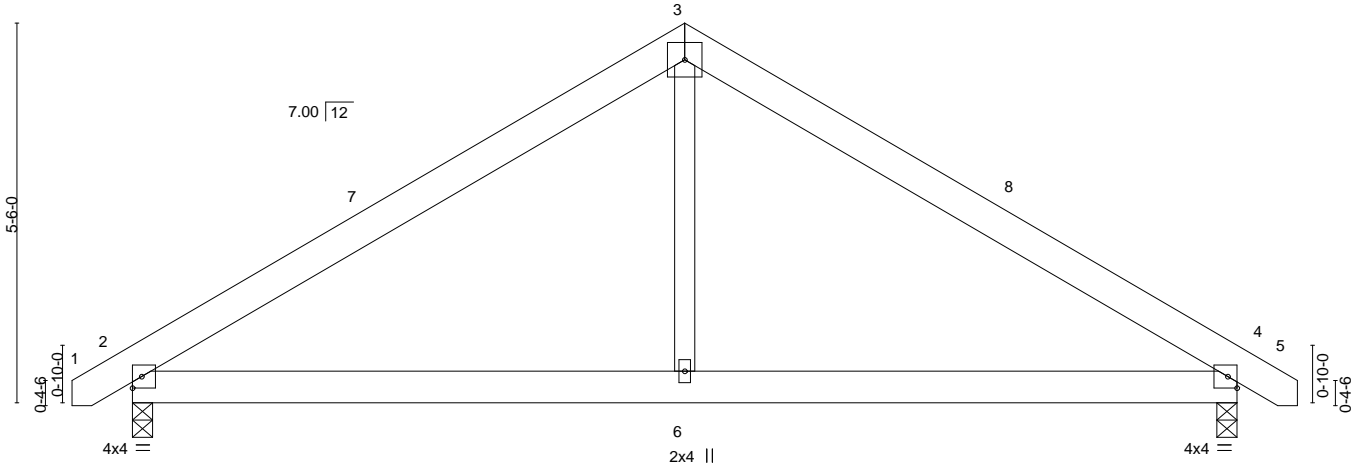
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:35 2025 Page 1

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-0-10-8 8-0-0 16-0-0 16-10-8
0-10-8 8-0-0 8-0-0 0-10-8

6x6 =

Scale = 1:33.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.02	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.05	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.02	2-6	>999	240		
									Weight: 93 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-122(LC 8)
Max Uplift 2=-63(LC 10), 4=-63(LC 11)
Max Grav 2=681(LC 1), 4=681(LC 1)

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

TOP CHORD 2-3=-798/220, 3-4=-798/220
BOT CHORD 2-6=-54/571, 4-6=-54/571
WEBS 3-6=0/383

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-13 to 3-8-0, Exterior(2R) 3-8-0 to 12-4-0, Exterior(2E) 12-4-0 to 16-8-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 2, 4.



May 16,2025

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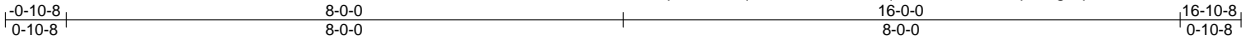
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	G1GE	GABLE	1	1	173519088
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

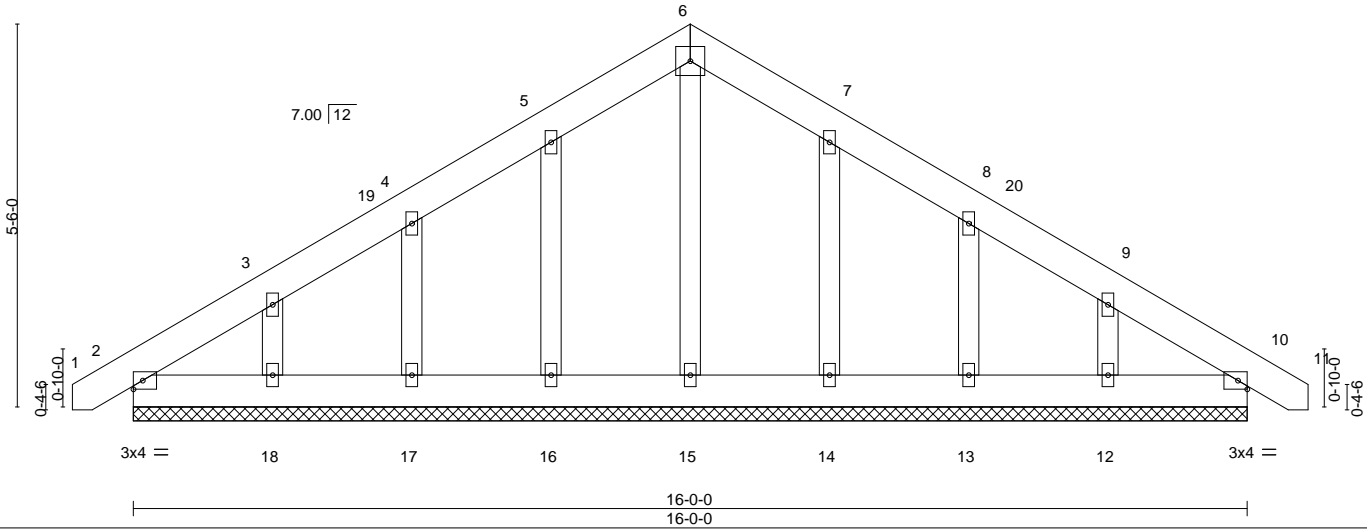
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:35 2025 Page 1

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5x5 =

Scale = 1:33.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 113 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 16-0-0.
(lb) - Max Horz 2=153(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 14, 13 except 18=-108(LC 10), 12=-103(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-13 to 3-8-0, Corner(3R) 3-8-0 to 12-4-0, Corner(3E) 12-4-0 to 16-8-13 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, 16, 17, 14, 13 except (jt=lb) 18=108, 12=103.



May 16,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	M1	ROOF SPECIAL	2	1	173519089
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:36 2025 Page 1

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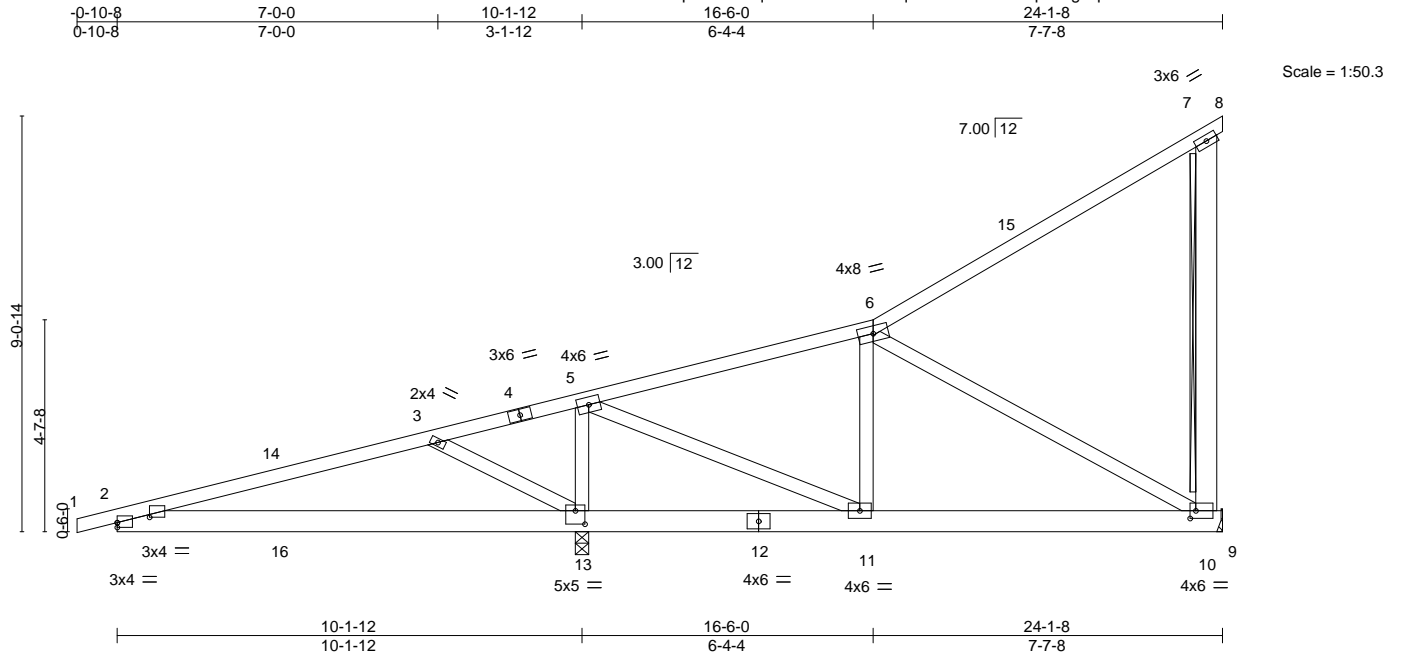


Plate Offsets (X,Y)--	[2:0-0-0,0-1-4], [2:0-8-7,0-1-7], [10:0-1-8,0-2-0], [13:0-2-8,0-3-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.03 10-11 >999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.05 10-11 >999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.01 10 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	-0.05 11-13 >999 240
					PLATES MT20 GRIP 244/190
					Weight: 151 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
7-10: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-7 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 7-10
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.

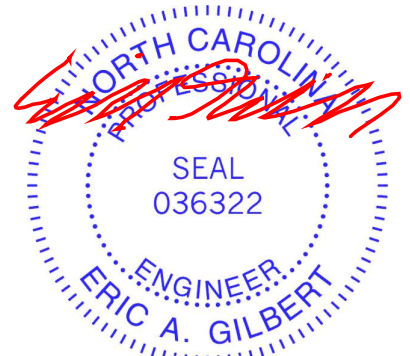
(size) 10=Mechanical, 13=0-3-8
Max Horz 13=284(LC 10)
Max Uplift 10=-113(LC 10), 13=-503(LC 6)
Max Grav 10=386(LC 17), 13=1752(LC 1)

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

TOP CHORD 2-3=-1685/1237, 3-5=-1954/1650, 5-6=-828/187, 7-10=-250/216
BOT CHORD 2-13=-1141/1662, 11-13=-1580/1597, 10-11=-119/523
WEBS 3-13=-500/394, 5-13=-1260/848, 5-11=-1143/1569, 6-11=-540/683, 6-10=-637/180

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 19-8-11, Exterior(2E) 19-8-11 to 24-1-8 zone; cantilever left 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) except (jt=lb) 10=113, 13=503.
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



May 16,2025

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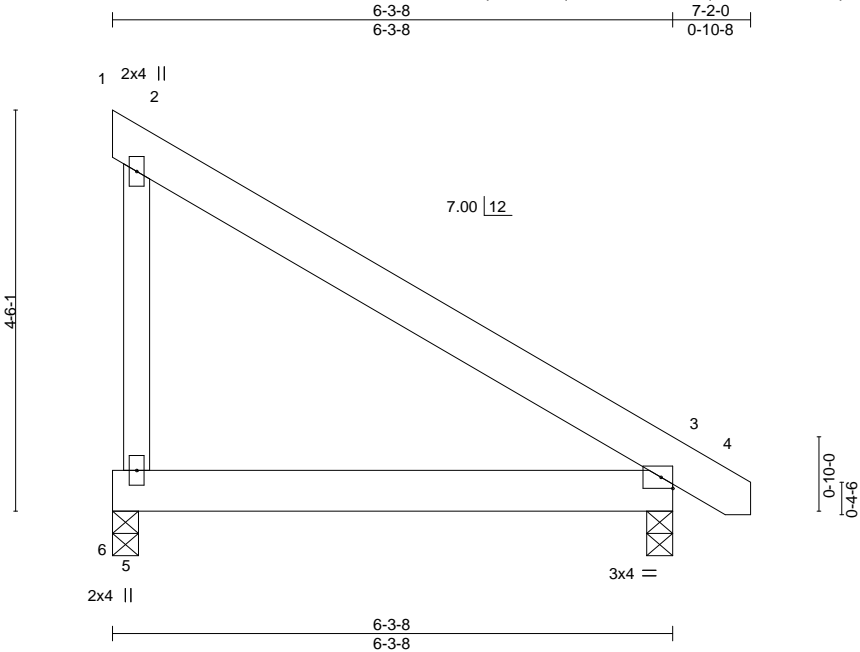
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	M2	ROOF SPECIAL	2	1	173519090
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:36 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.02	3-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.03	3-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	5	****	240	Weight: 40 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0"-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=0-3-8
Max Horz 5=-132(LC 11)
Max Uplift 5=-75(LC 11)
Max Grav 5=261(LC 18), 3=291(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 5.



May 16,2025

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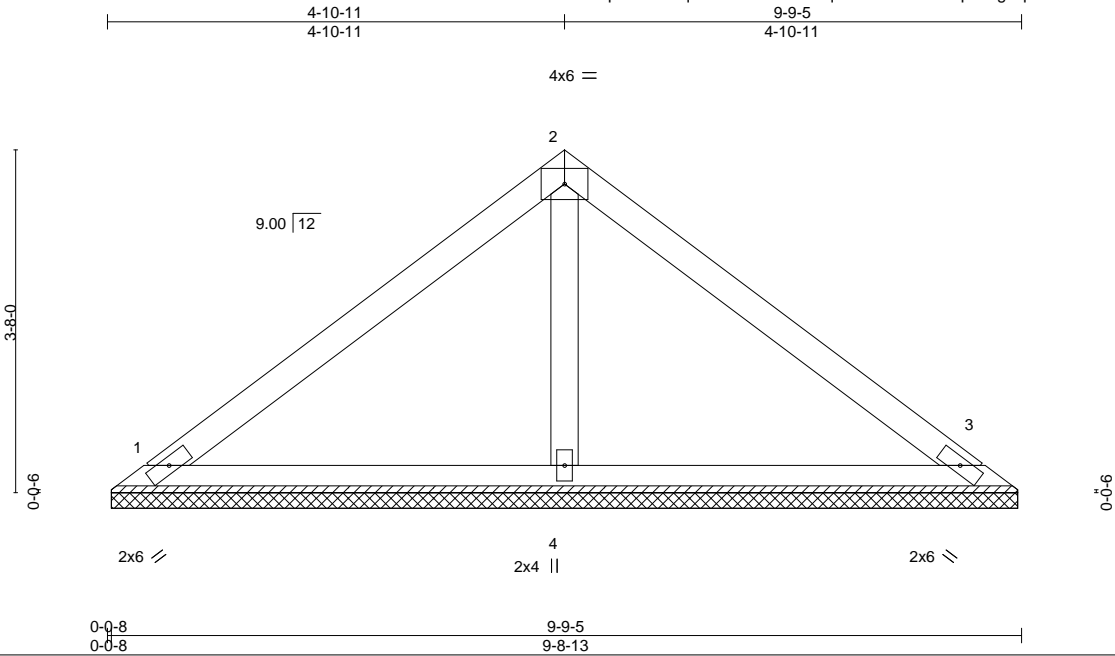
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VB1	Valley	1	1	173519091
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:36 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-8-5, 3=9-8-5, 4=9-8-5
Max Horz 1=80(LC 9)
Max Uplift 1=-25(LC 10), 3=-33(LC 11), 4=-2(LC 10)
Max Grav 1=183(LC 1), 3=183(LC 1), 4=345(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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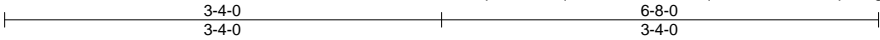
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VB2	Valley	1	1	173519092
					Job Reference (optional)

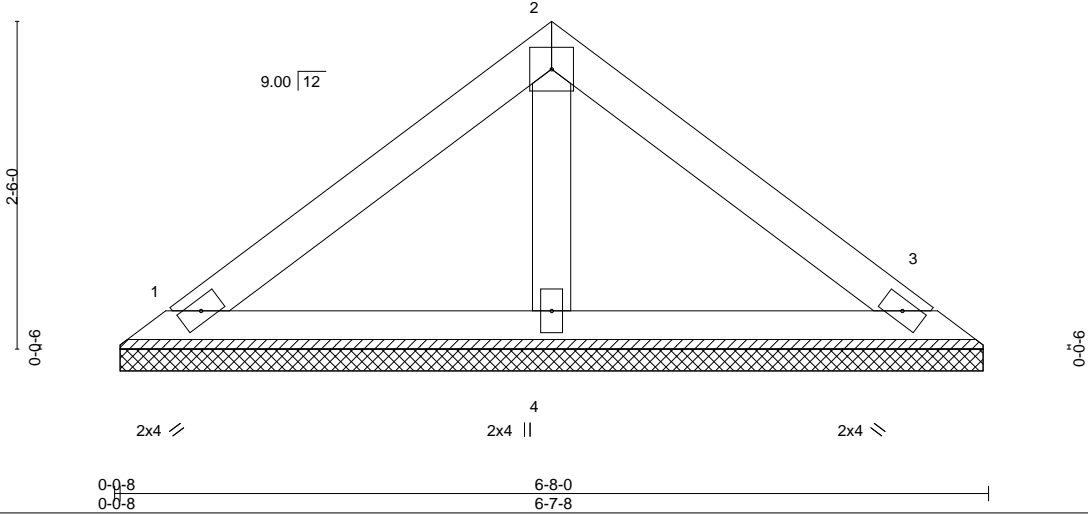
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:37 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:17.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=6-7-0, 3=6-7-0, 4=6-7-0
Max Horz 1=52(LC 9)
Max Uplift 1=22(LC 10), 3=27(LC 11)
Max Grav 1=130(LC 1), 3=130(LC 1), 4=203(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.



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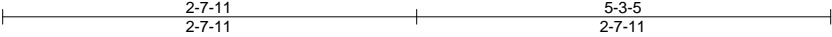
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VC1	Valley	1	1	173519094
					Job Reference (optional)

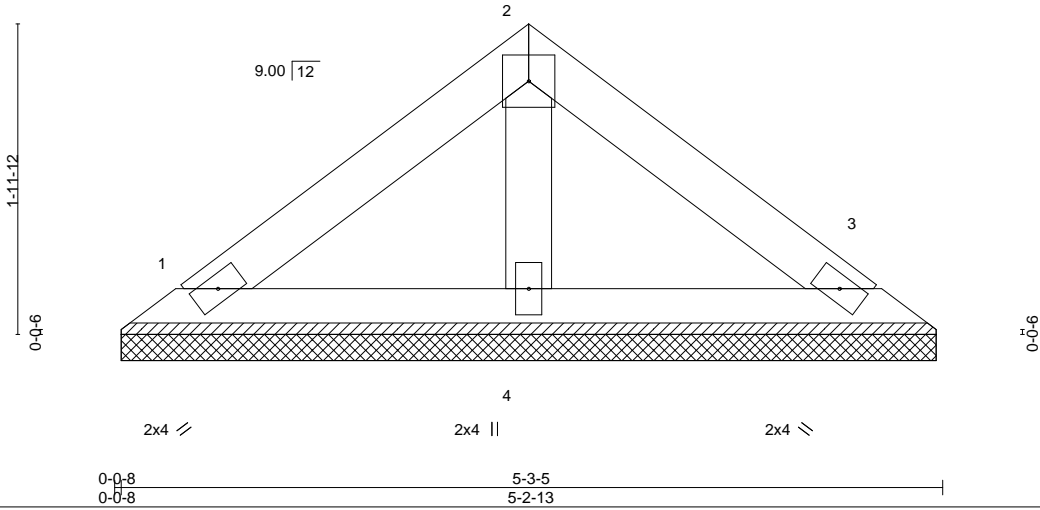
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:38 2025 Page 1

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Scale = 1:14.7



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 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 18 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 5-3-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-2-5, 3=5-2-5, 4=5-2-5
Max Horz 1=40(LC 8)
Max Uplift 1=17(LC 10), 3=21(LC 11)
Max Grav 1=99(LC 1), 3=99(LC 1), 4=154(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.



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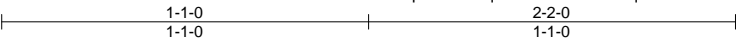
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VC2	Valley	1	1	173519095
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:38 2025 Page 1

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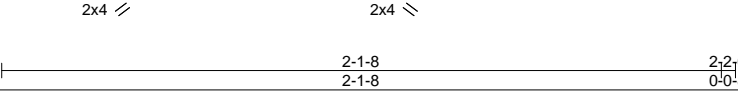
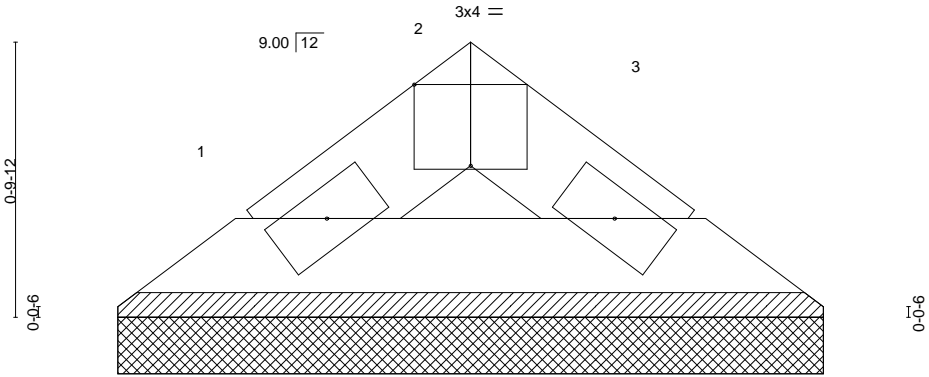


Plate Offsets (X,Y)--		[2:0-2-0,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.15	TC 0.01		Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL 10.0		Lumber DOL	1.15	BC 0.01		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-P						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=2-1-0, 3=2-1-0
Max Horz 1=12(LC 7)
Max Uplift 1=4(LC 10), 3=4(LC 11)
Max Grav 1=51(LC 1), 3=51(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 16,2025

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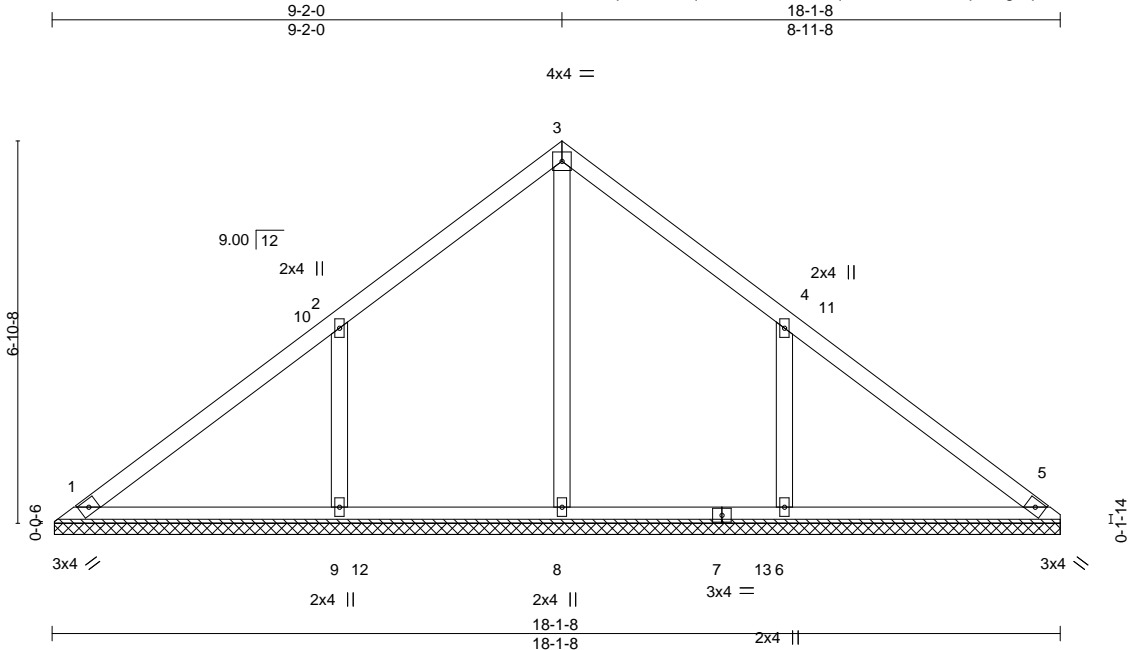
818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD1	Valley	1	1	173519096
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:41.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S					Weight: 79 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 18-1-0.
(lb) - Max Horz 1=-157(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-156(LC 10), 6=-156(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=393(LC 20), 9=583(LC 17), 6=583(LC 18)

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

WEBS 2-9=-350/257, 4-6=-350/257

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Exterior(2R) 4-10-1 to 13-5-14, Exterior(2E) 13-5-14 to 17-10-11 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, 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=156, 6=156.



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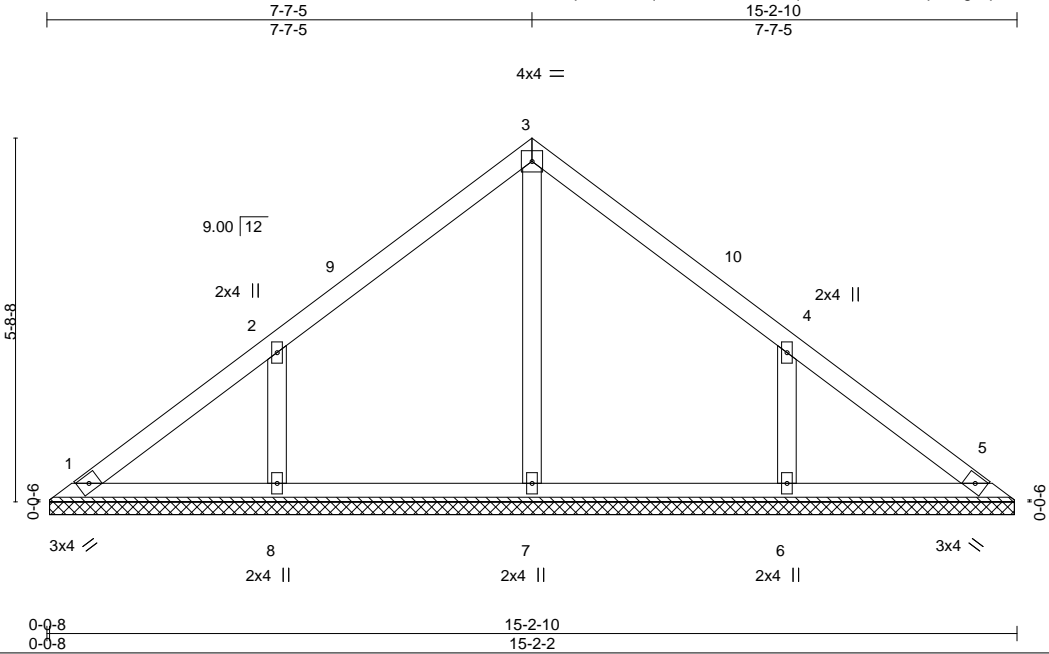
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD2	Valley	1	1	173519097
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:39 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 63 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 15-1-10.
(lb) - Max Horz 1=-129(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-127(LC 10), 6=-127(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=368(LC 17), 6=368(LC 18)

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

WEBS 2-8=-284/227, 4-6=-284/227

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Exterior(2R) 4-10-1 to 10-4-9, Exterior(2E) 10-4-9 to 14-9-6 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) 1 except (jt=lb) 8=127, 6=127.



May 16,2025

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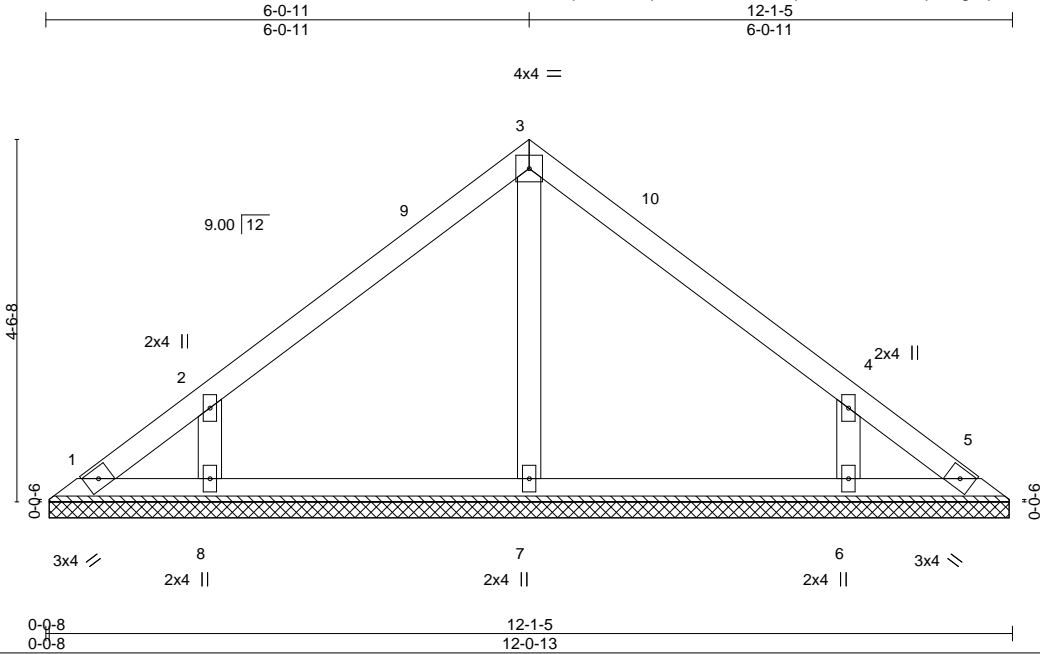
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD3	Valley	1	1	173519098
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:39 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						
									Weight: 48 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.

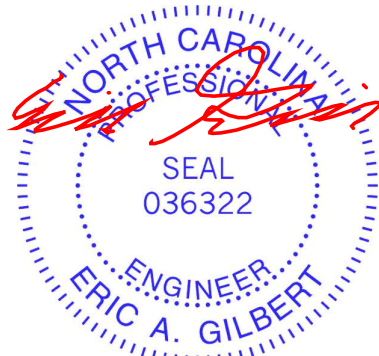
All bearings 12-0-5.
(lb) - Max Horz 1=-101(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-114(LC 10), 6=-114(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=319(LC 17), 6=319(LC 18)

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

WEBS 2-8=-257/241, 4-6=-257/241

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Exterior(2R) 4-10-1 to 7-3-4, Exterior(2E) 7-3-4 to 11-8-0 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) 1, 5 except (jt=lb) 8=114, 6=114.



May 16,2025

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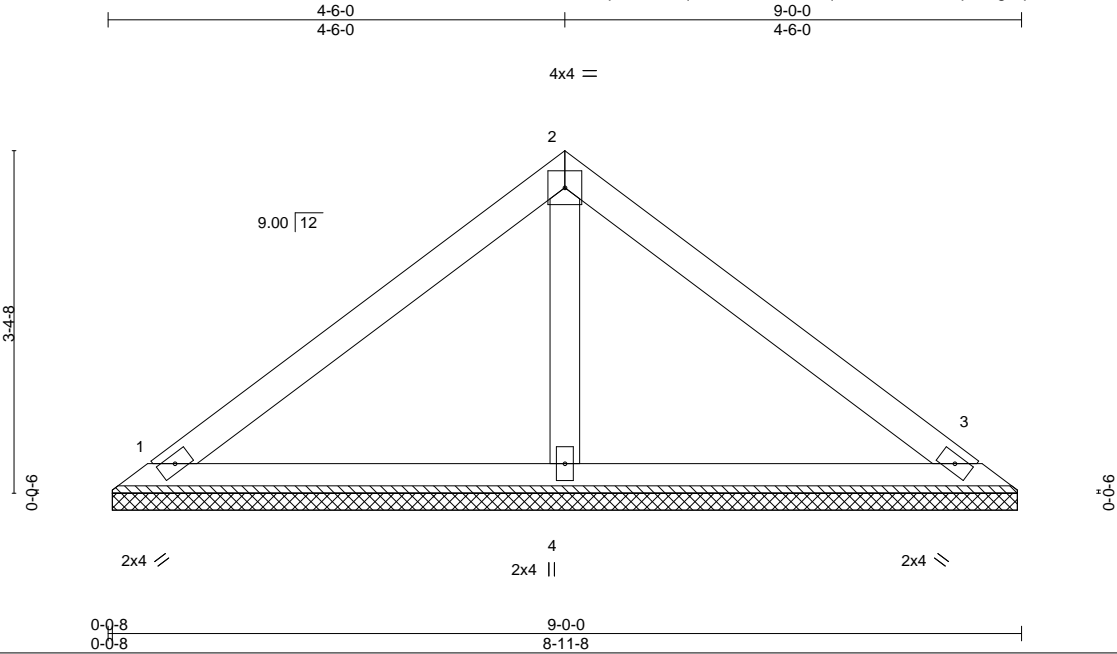
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD4	Valley	1	1	173519099
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:22.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/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" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

(size) 1=8-11-0, 3=8-11-0, 4=8-11-0
Max Horz 1=73(LC 8)
Max Uplift 1=31(LC 10), 3=38(LC 11)
Max Grav 1=182(LC 1), 3=182(LC 1), 4=285(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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" tall by 2'-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) 1, 3.



May 16,2025

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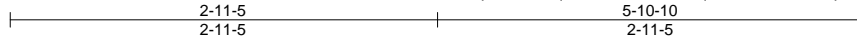
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD5	Valley	1	1	173519100
					Job Reference (optional)

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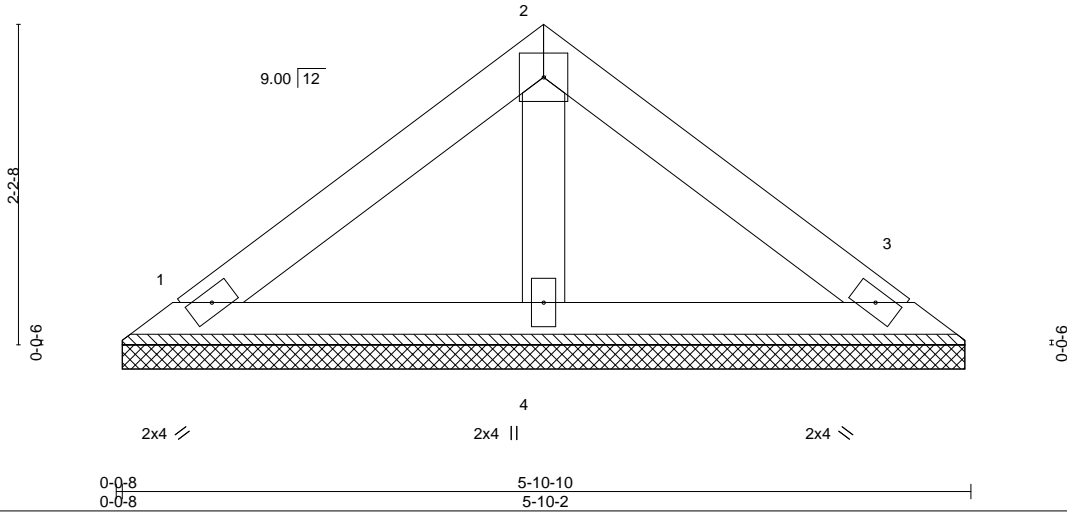
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:40 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



4x4 =

Scale: 3/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 20 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 5-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

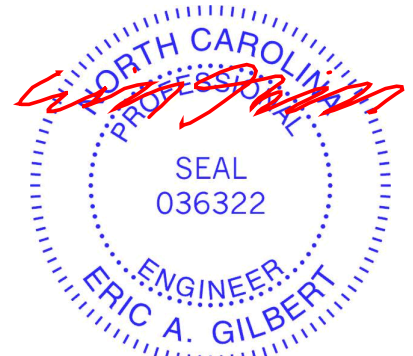
REACTIONS.

(size) 1=5-9-10, 3=5-9-10, 4=5-9-10
Max Horz 1=45(LC 6)
Max Uplift 1=19(LC 10), 3=24(LC 11)
Max Grav 1=112(LC 1), 3=112(LC 1), 4=176(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.



May 16,2025

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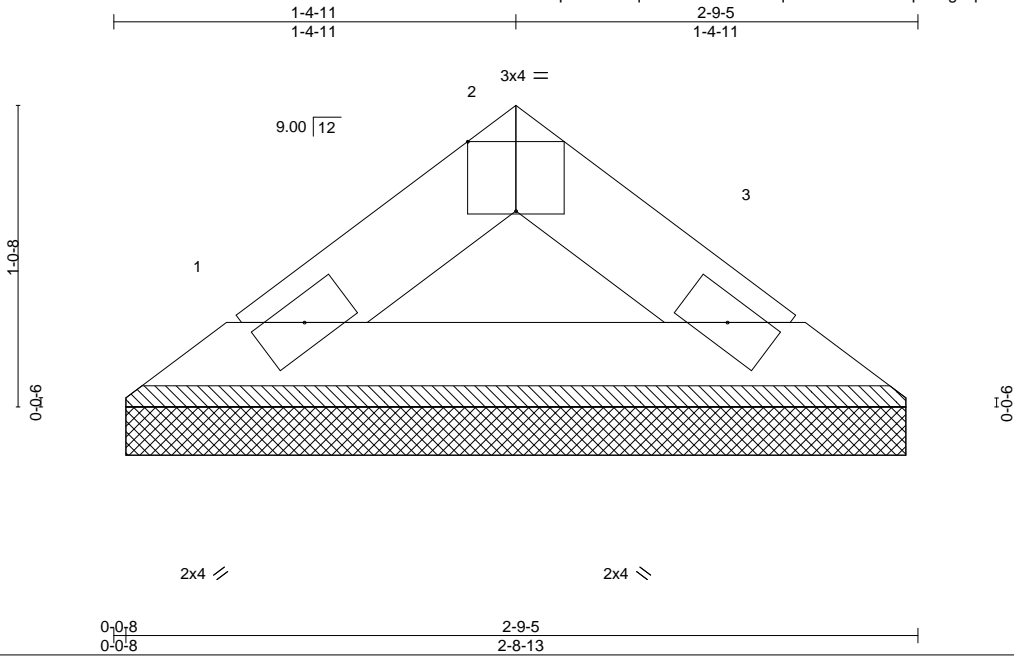
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VD6	Valley	1	1	I73519101
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:40 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale: 1.5"=1'

Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 8 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-8-5, 3=2-8-5
Max Horz 1=17(LC 6)
Max Uplift 1=6(LC 10), 3=6(LC 11)
Max Grav 1=76(LC 1), 3=76(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 16,2025

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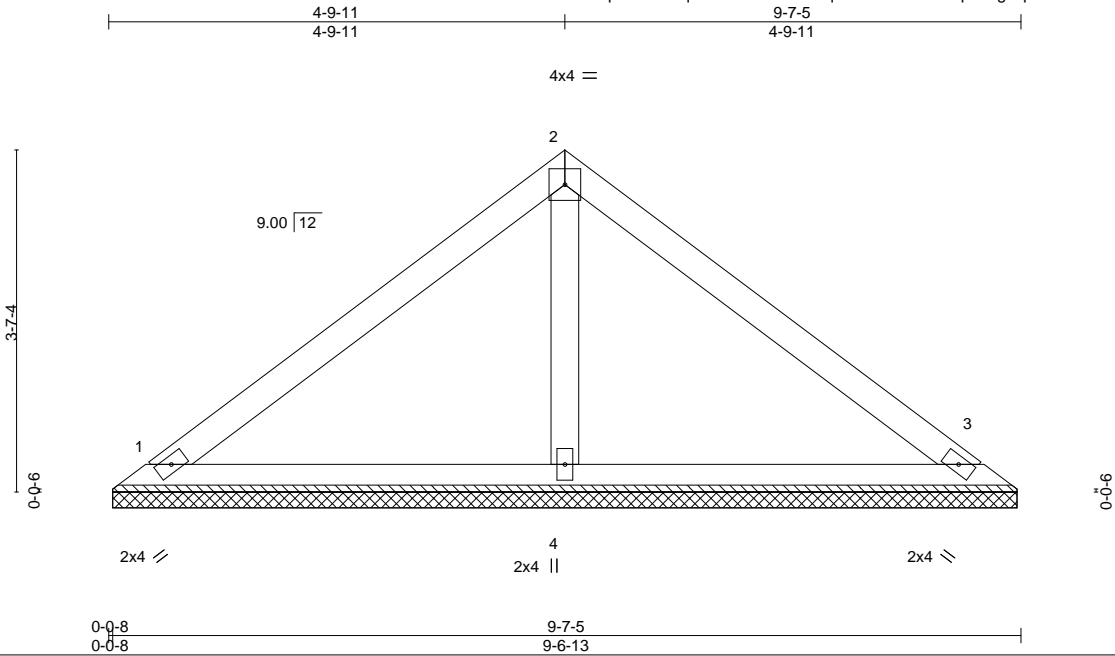
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VE1	Valley	1	1	173519102
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:41 2025 Page 1

ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:24.3

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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-6-5, 3=9-6-5, 4=9-6-5
Max Horz 1=-79(LC 6)
Max Uplift 1=-25(LC 10), 3=-32(LC 11), 4=-2(LC 10)
Max Grav 1=180(LC 1), 3=180(LC 1), 4=338(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3, 4.



May 16,2025

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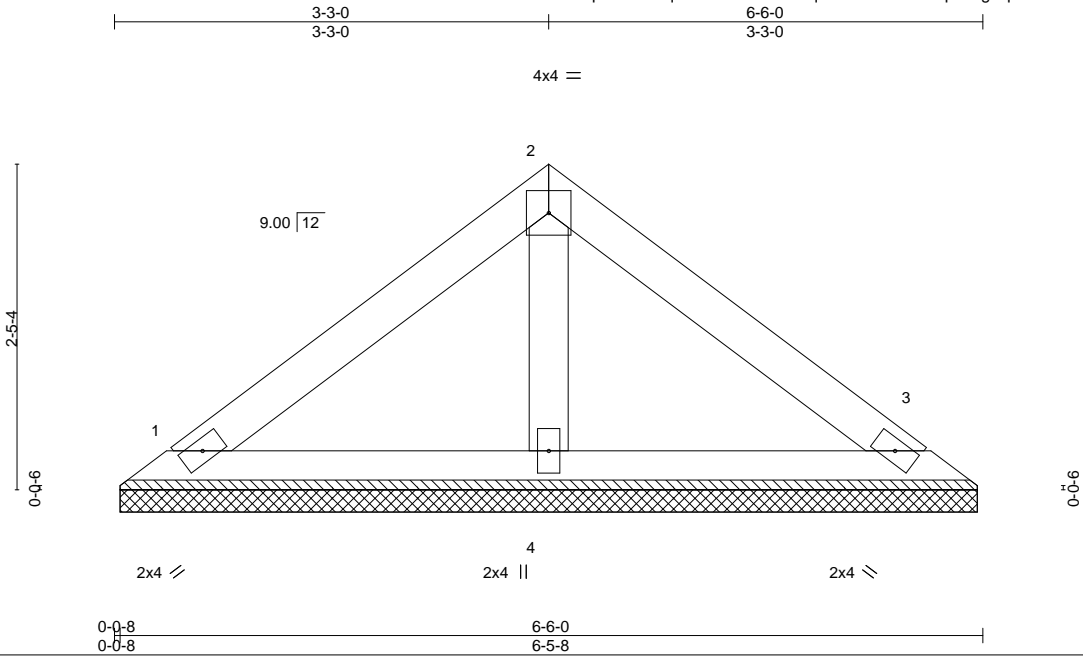
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 26 Ducks Landing/Hamett
J0325-1575	VE2	Valley	1	1	I73519103
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 10:37:41 2025 Page 1
ID:UOrpZ6RJxiXqXe4mSmL8CMzOqPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:17.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=6-5-0, 3=6-5-0, 4=6-5-0
Max Horz 1=-51(LC 8)
Max Uplift 1=-22(LC 10), 3=-26(LC 11)
Max Grav 1=126(LC 1), 3=126(LC 1), 4=197(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 16,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

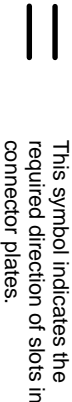
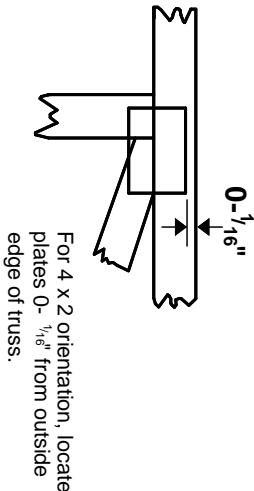
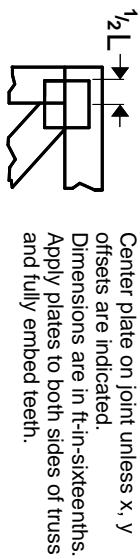
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

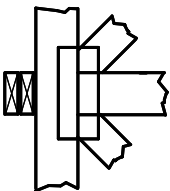
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

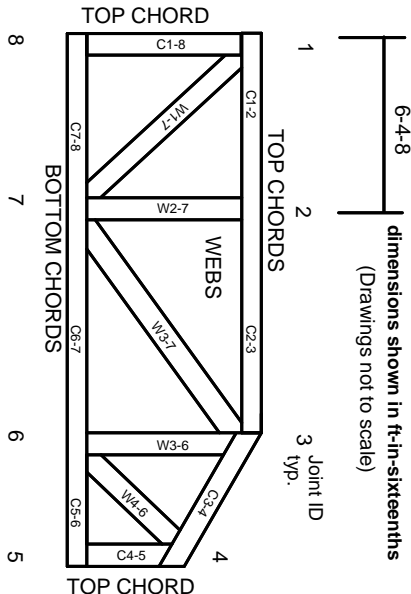


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023