

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 250117-A
24 Ducks Landing

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: I75416028 thru I75416037

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

North Carolina COA: C-0844



August 6, 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	24 Ducks Landing	175416028
250117-A	A01GE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:38 2025 Page 1
ID:nNjGBeZnxF347DbeM7rhdZyzJpM-kpml0_ggzKJsJ4?vVyDE7_FLY3sWYPKkTehTnFyqvCZ

-0-11-0
0-11-0

15-11-8
15-11-8

31-11-0
15-11-8

32-10-0
0-11-0

Scale = 1:66.9

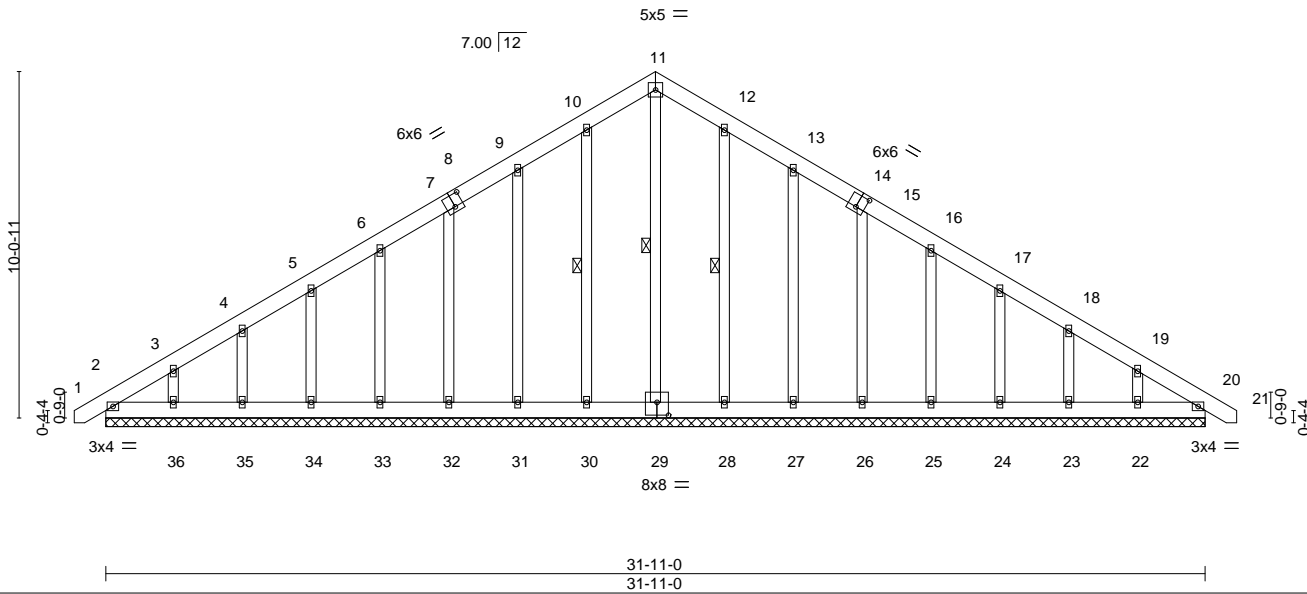


Plate Offsets (X,Y)-- [8:0-3-0,0-4-4], [14:0-3-0,0-4-4], [29:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00 20 n/r 120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00 20 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01 20 n/a n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S				Weight: 274 lb	FT = 25%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Structural wood sheathing directly applied or 10'-0-0 oc bracing.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt 11-29, 10-30, 12-28

REACTIONS.	
All bearings 31-11-0.	
(lb) - Max Horz 2=-292(LC 8)	
Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 20, 31, 32, 33, 34, 35, 28, 27, 26, 25, 24, 23 except 36=-118(LC 10), 22=-110(LC 11)	
Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 20, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-292/229, 10-11=-168/264, 11-12=-168/265	

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-3 to 2-5-2, Exterior(2N) 2-5-2 to 12-9-3, Corner(3R) 12-9-3 to 19-1-13, Exterior(2N) 19-1-13 to 29-5-14, Corner(3E) 29-5-14 to 32-8-3 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.



August 6,2025

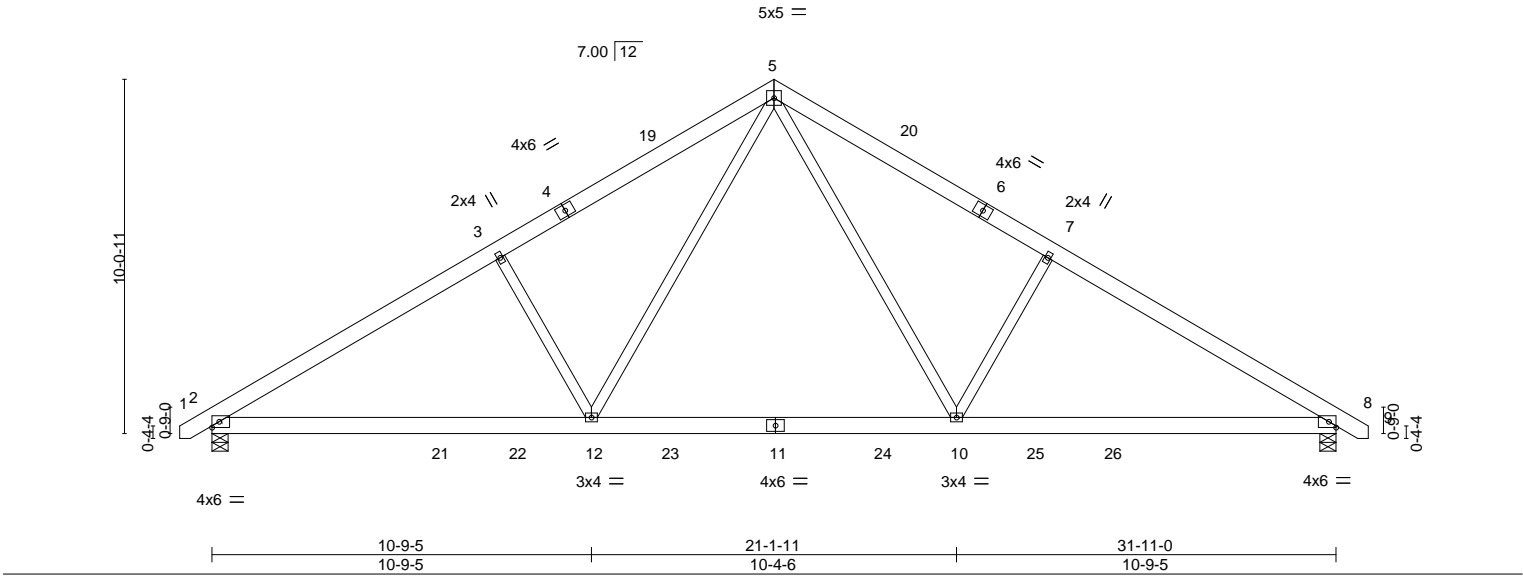
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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.sbcacompoments.com)

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

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	175416029
250117-A	A01	COMMON	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:37 2025 Page 1
ID:nNjGBeZnxF347DbeM7rdZyzJpM-GcCNoFF2CRB06wQixEh?anj8AfOVpv9bE_xwFpyqvCa
0-11-0 8-2-3 15-11-8 23-8-13 31-11-0 32-10-0
0-11-0 8-2-3 7-9-5 7-9-5 8-2-3 0-11-0

Scale = 1:65.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL)	-0.17 10-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT)	-0.24 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS					Weight: 213 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Structural wood sheathing directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=-234(LC 8)
Max Uplift 2=-115(LC 10), 8=-115(LC 11)
Max Grav 2=1633(LC 17), 8=1633(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2403/452, 3-5=-2223/507, 5-7=-2224/507, 7-8=-2403/452
BOT CHORD 2-12=-256/2149, 10-12=-57/1413, 8-10=-256/1974
WEBS 5-10=-149/1071, 7-10=-472/267, 5-12=-149/1070, 3-12=-472/267

- 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) -0-9-3 to 2-5-2, Interior(1) 2-5-2 to 12-9-3, Exterior(2R) 12-9-3 to 19-1-13, Interior(1) 19-1-13 to 29-5-14, Exterior(2E) 29-5-14 to 32-8-3 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.
 - One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



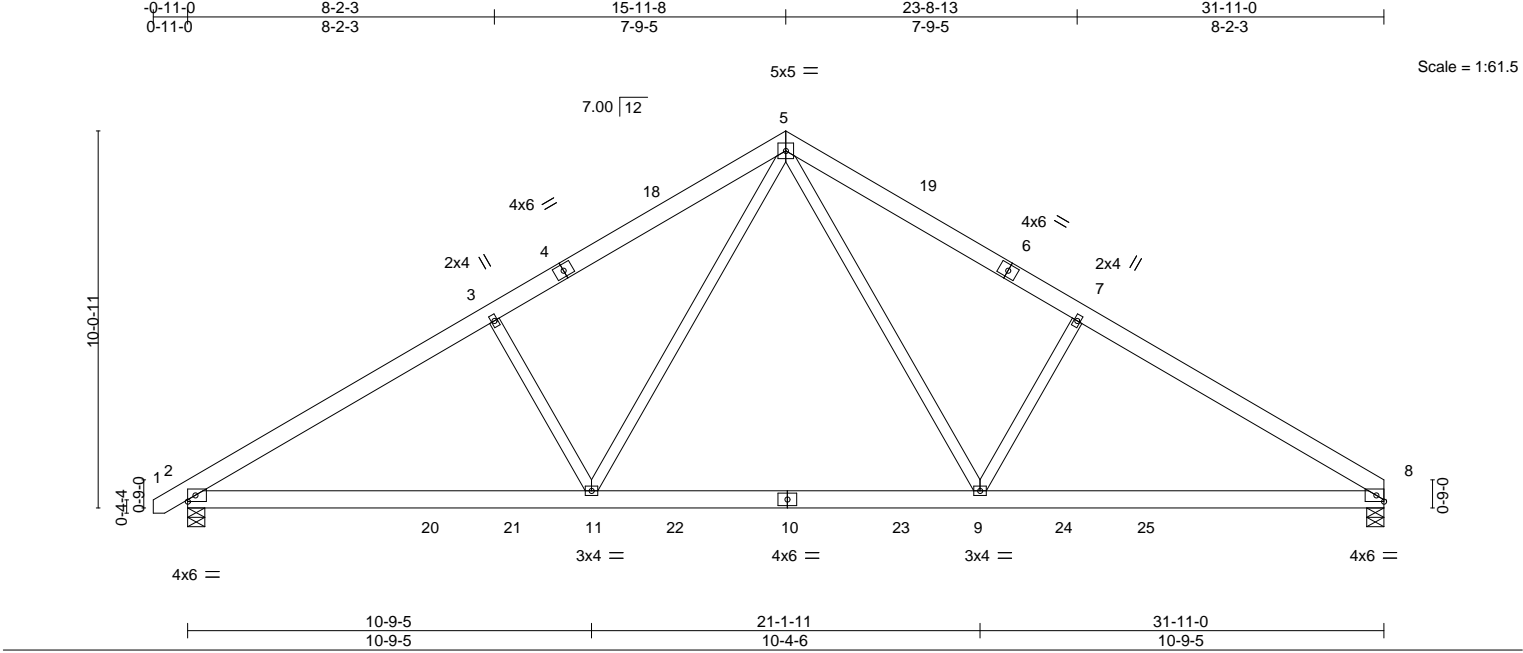
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Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	175416030
250117-A	A02	COMMON	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:38 2025 Page 1
ID:nNjGBzZnxF347DbeM7rhdZyzJpM-kpml0_ggzkJsj4?vVyDE7_Flv3kjYMLkTehTnFyqvCZ



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.17 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.24 9-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2021/TPI2014			Weight: 211 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Structural wood sheathing directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=230(LC 7)
Max Uplift 2=115(LC 10), 8=104(LC 11)
Max Grav 2=1633(LC 17), 8=1590(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2403/453, 3-5=2224/508, 5-7=2226/510, 7-8=2406/454
BOT CHORD 2-11=284/2144, 9-11=85/1408, 8-9=285/1979
WEBS 5-9=152/1073, 7-9=474/269, 5-11=149/1070, 3-11=472/267

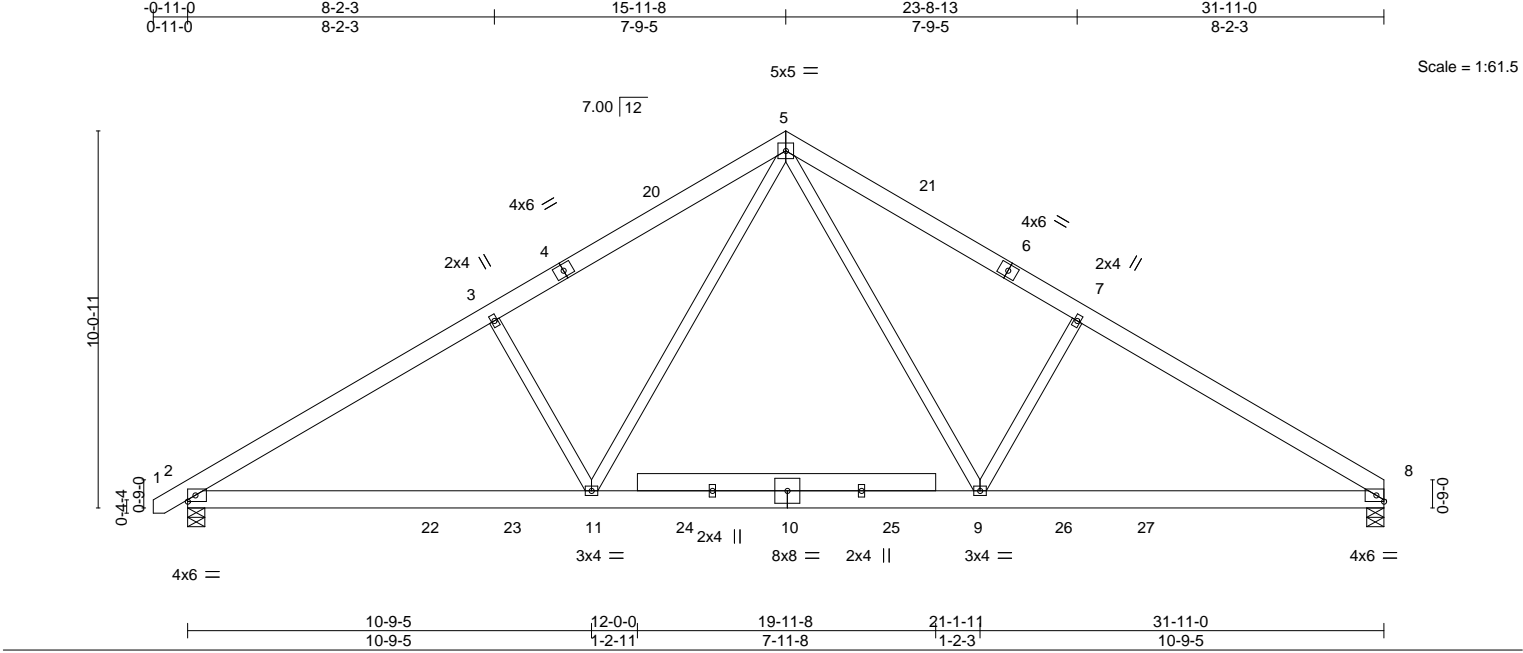
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-3 to 2-5-2, Interior(1) 2-5-2 to 12-9-3, Exterior(2R) 12-9-3 to 19-1-13, Interior(1) 19-1-13 to 28-8-11, Exterior(2E) 28-8-11 to 31-11-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 6) This truss requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 6,2025

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	175416031
250117-A	A02A	COMMON	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:39 2025 Page 1
ID:nNjGBzFx347DbeM7rhdZyzJpM-C?K8DKhk2RjLEa53fkTgCoTfS33HpbulQ0KiyqvCY



LOADING (psf)	SPACING-	CSI.	DEFL.	VERT(LL)	VERT(CT)	HORZ(CT)	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc)	-0.16 9-11	-0.24 9-11	0.04 8	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	l/defl	>999	>999	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	L/d	180	180	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS					Weight: 230 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Structural wood sheathing directly applied.
WEBS 2x4 SP No.2 *Except*	
12-13: 2x6 SP No.1	

REACTIONS.	(size)
Max Horz	2=230(LC 7)
Max Uplift	2=-115(LC 10), 8=-104(LC 11)
Max Grav	2=1626(LC 17), 8=1582(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2387/453, 3-5=-2208/508, 5-7=-2210/510, 7-8=-2389/454
BOT CHORD	2-11=-284/2130, 9-11=-85/1399, 8-9=-285/1966
WEBS	5-9=-152/1064, 7-9=-475/269, 5-11=-149/1061, 3-11=-473/267

- 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) -0-9-3 to 2-5-2, Interior(1) 2-5-2 to 12-9-3, Exterior(2R) 12-9-3 to 19-1-13, Interior(1) 19-1-13 to 28-8-11, Exterior(2E) 28-8-11 to 31-11-0 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.
 - One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

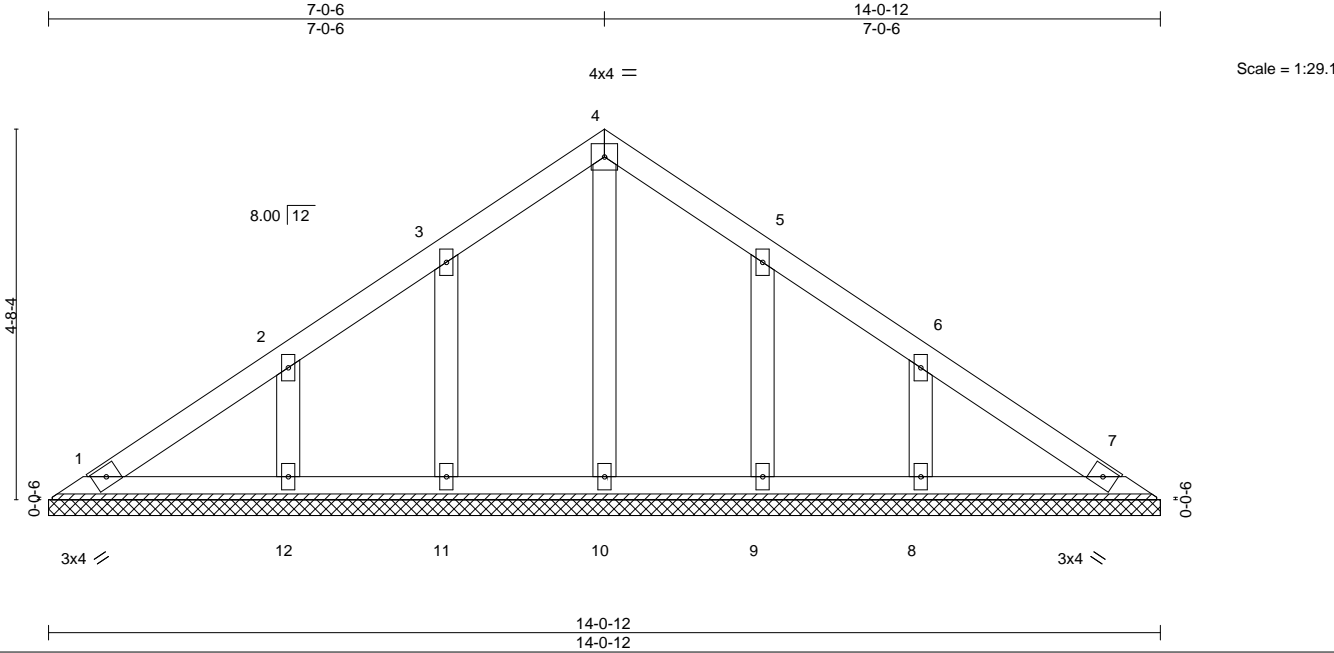


August 6,2025

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing
250117-A	VA1	GABLE	1	1	175416032
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:40 2025 Page 1
ID:nNjGBeZnxF347DbeM7rhdZyzJpM-gBuWRgiwVMZazO9HdMFICPLhusXm0KA1xyAas8yqvCX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 63 lb	FT = 25%

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

REACTIONS. All bearings 14-0-12.
(lb) - Max Horz 1=131(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 9 except 12=122(LC 10), 8=122(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-15 to 3-5-15, Interior(1) 3-5-15 to 4-0-6, Exterior(2R) 4-0-6 to 10-0-6, Interior(1) 10-0-6 to 10-6-13, Exterior(2E) 10-6-13 to 13-6-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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.



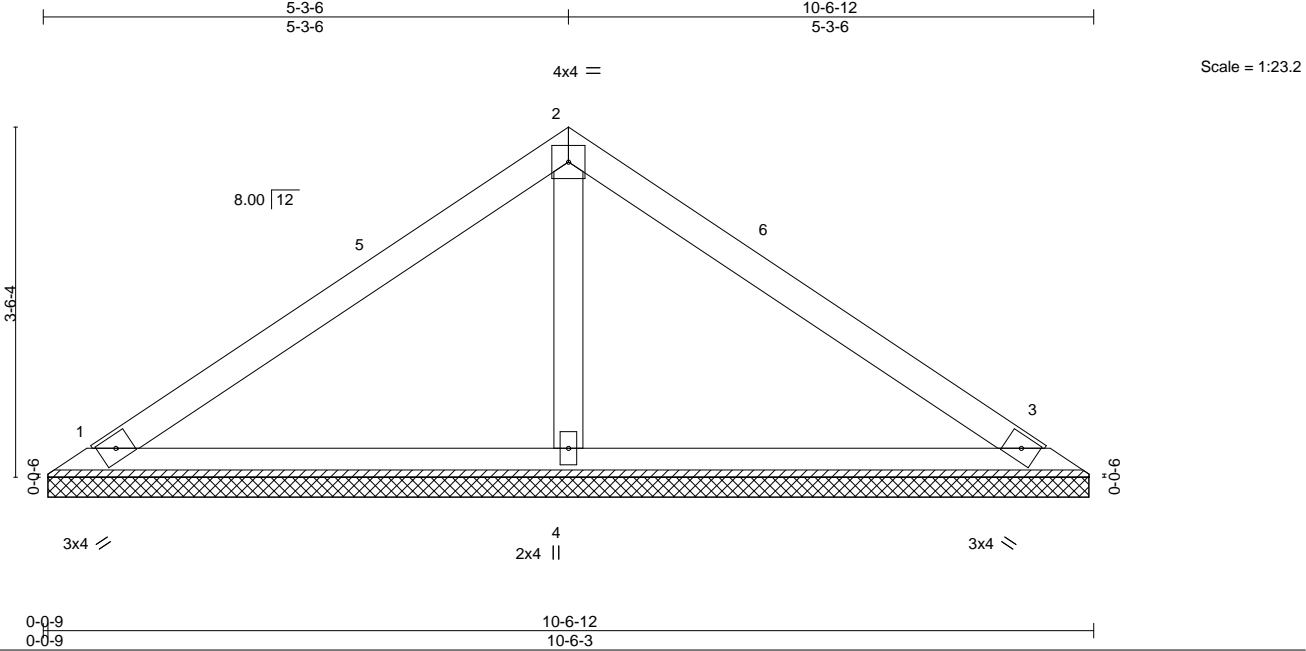
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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	175416033
250117-A	VA2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:41 2025 Page 1
ID:nNjGBeZnxF347DbeM7rhdZyzJpM-8NSue0jZGfhRaYkUA4mxldtpiGr0lnBA9cv7OayqvCW



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 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 37 lb	FT = 25%

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

REACTIONS. (size) 1=10-5-10, 3=10-5-10, 4=10-5-10
Max Horz 1=-77(LC 6)
Max Uplift 1=-27(LC 10), 3=-35(LC 11), 4=-5(LC 10)
Max Grav 1=190(LC 1), 3=190(LC 1), 4=386(LC 1)

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

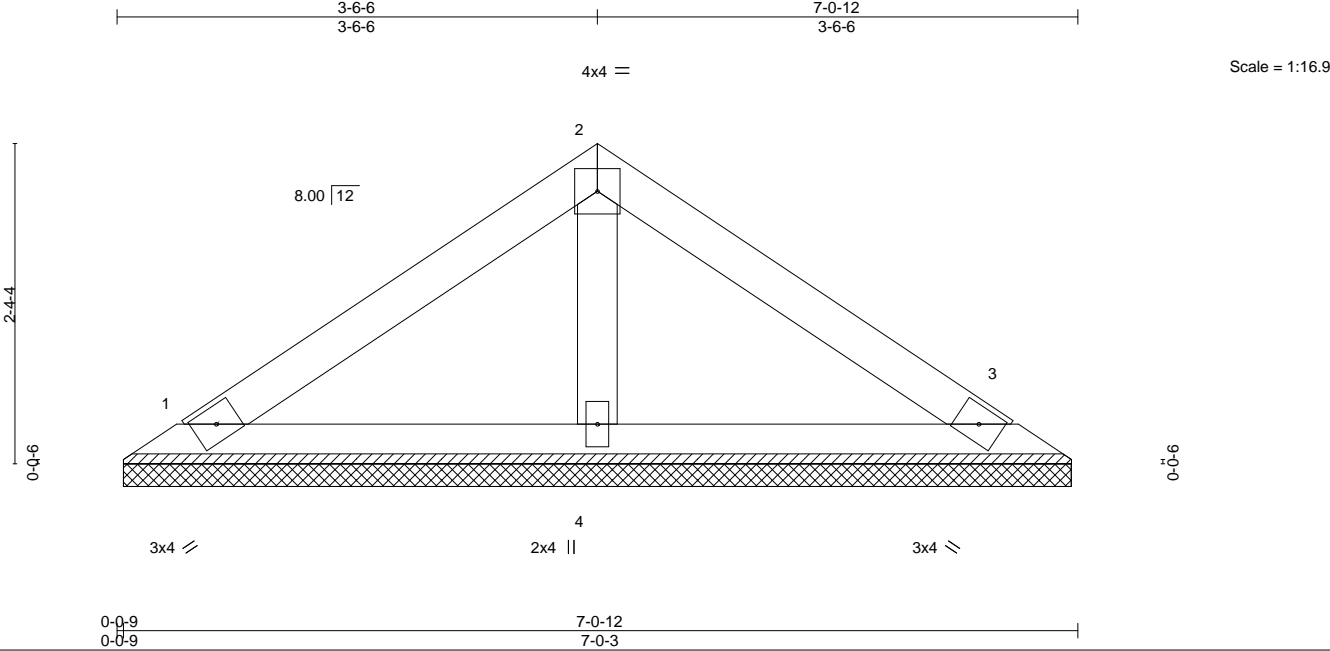
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-15 to 3-5-15, Exterior(2R) 3-5-15 to 7-0-13, Exterior(2E) 7-0-13 to 10-0-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



August 6,2025

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	I75416034
250117-A	VA3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:41 2025 Page 1
ID:nNjGBeZnxF347DbeM7rhdZyzJpM-8NSue0jZGfhRaYkUA4mxldtqOGsWlneA9cv7OayqvCW



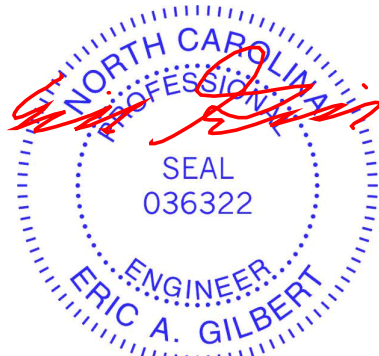
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 24 lb	FT = 25%
	Code IRC2021/TPI2014								

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

REACTIONS. (size) 1=6-11-10, 3=6-11-10, 4=6-11-10
Max Horz 1=49(LC 7)
Max Uplift 1=-23(LC 10), 3=-28(LC 11)
Max Grav 1=132(LC 1), 3=132(LC 1), 4=222(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; 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
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.



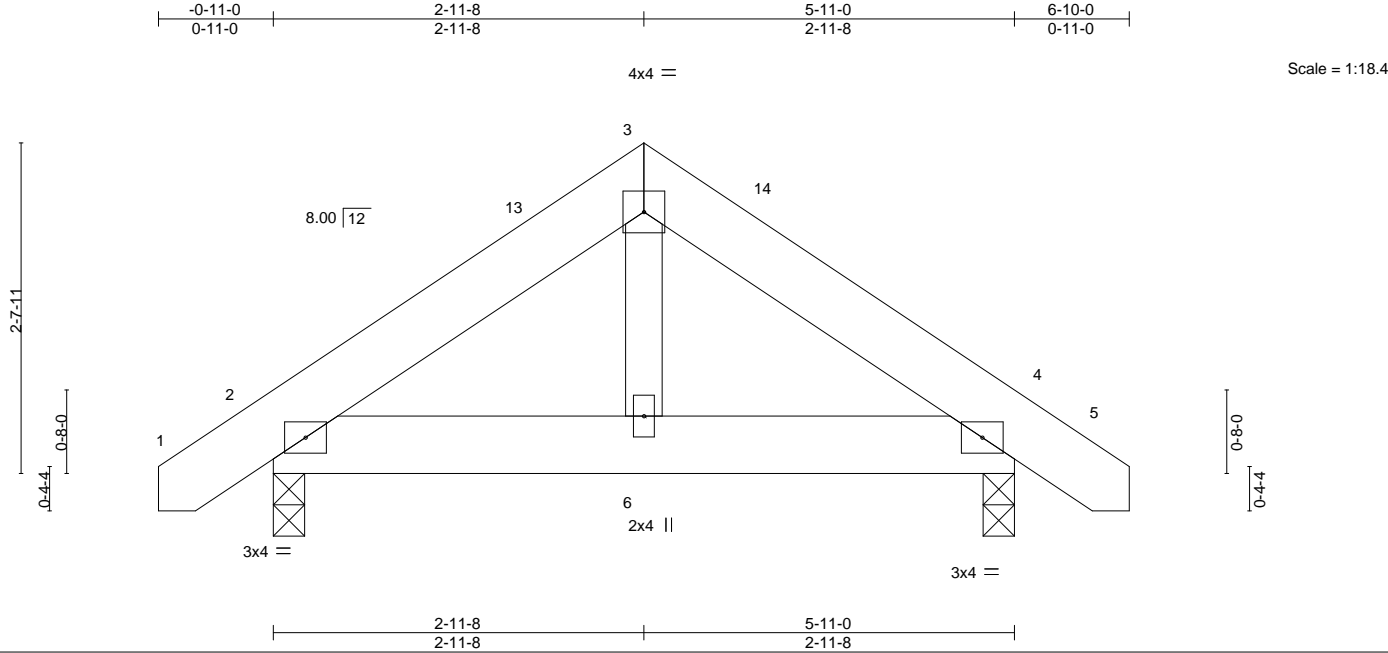
August 6,2025

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.sbcacompoments.com)

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

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing
250117-A	P1GE	GABLE	1	1	175416036
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:40 2025 Page 1
ID:nNjGBzZnxF347DbeM7rhdZyzJpM-gBuWRgiwVMZazO9HdMFiCPLhjsXo0KG1xyAas8yqvCX



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.06	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS						Weight: 39 lb	FT = 25%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1	BOT CHORD	Structural wood sheathing directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=74(LC 9)
Max Uplift 2=-74(LC 10), 4=-74(LC 11)
Max Grav 2=283(LC 1), 4=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-241/303, 3-4=-241/303

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-4 to 2-2-12, Corner(3R) 2-2-12 to 3-8-4, Corner(3E) 3-8-4 to 6-8-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable 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.
 - One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



August 6, 2025

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

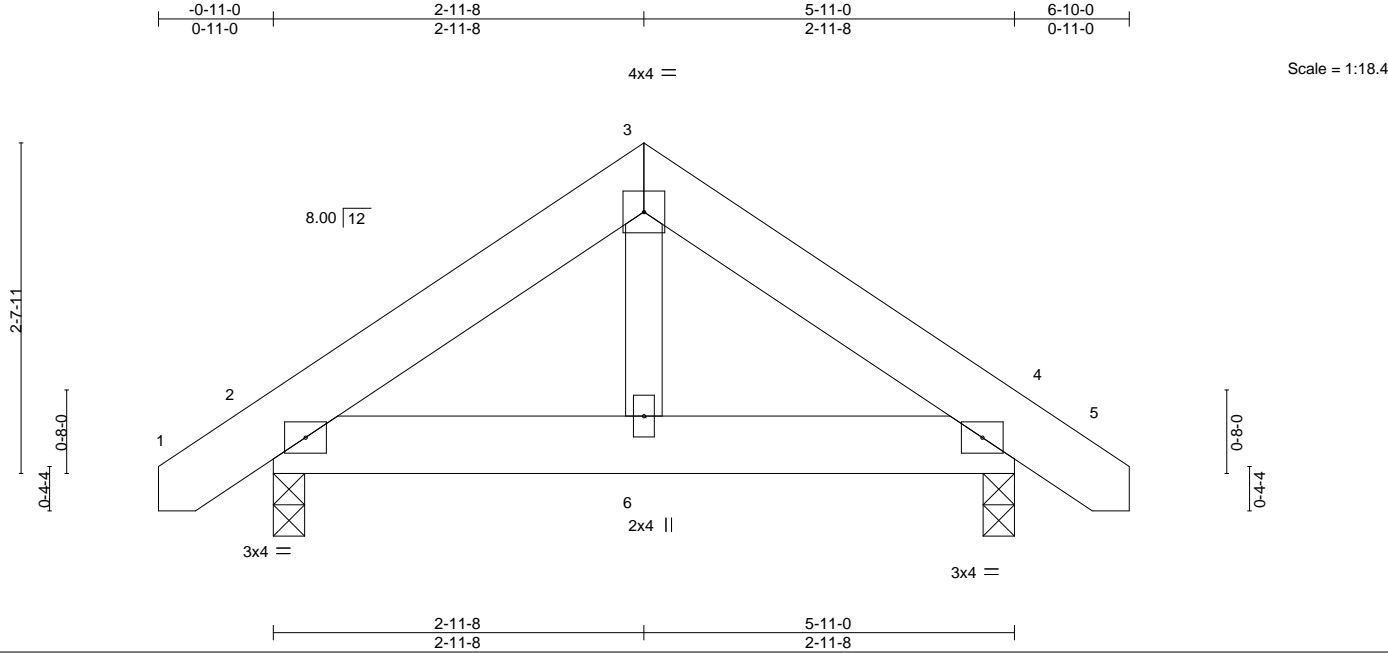
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	24 Ducks Landing	175416037
250117-A	P1	COMMON	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.2.0 s Jul 24 2025 MiTek Industries, Inc. Tue Aug 5 12:07:39 2025 Page 1
ID:nNjGBeZnxF347DbeM7rhdZyzJpM-C?K8DKhIk2RjLEa53fkTgCoWBSBZHt0uIlQ0KiYqvCY



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS						Weight: 39 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Structural wood sheathing directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=60(LC 9)
Max Uplift 2=-45(LC 7), 4=-45(LC 6)
Max Grav 2=283(LC 1), 4=283(LC 1)

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

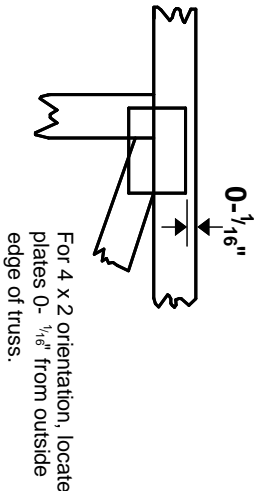
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-4 to 2-2-12, Exterior(2R) 2-2-12 to 3-8-4, Exterior(2E) 3-8-4 to 6-8-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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August 6,2025

Symbols

PLATE LOCATION AND ORIENTATION



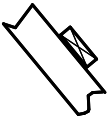
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

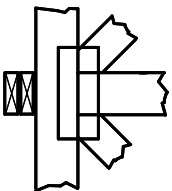
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

