

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 250544-A
Lot 32 West Preserve

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: I75843292 thru I75843318

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

North Carolina COA: C-0844



August 25, 2025

Gilbert, Eric

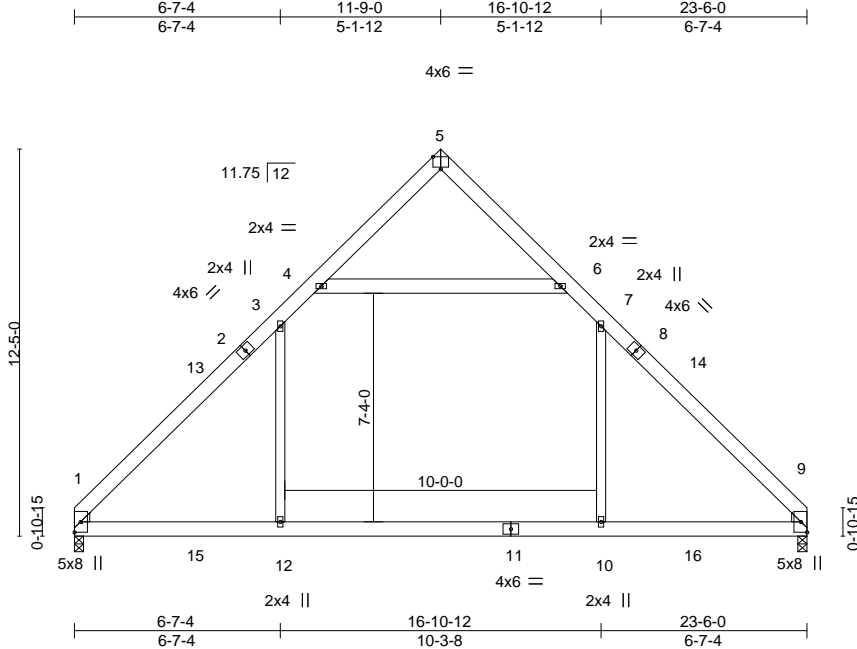
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	Lot 32 West Preserve
250544-A	C3	COMMON	1	1	175843292

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:59 2025 Page 1

ID:M8kbvA?WTlhi1vSeQ5lcK_yWBWQ-V?MIFhbQMnwGsoDRJ0?qqAz4zKnKK?u29kKUY3ylLdM



Scale = 1:73.9

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 0.40	Vert(LL)	-0.21	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.29	10-12	>963	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.19	1-12	>999	240	Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
4-6: 2x6 SP No.1	
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-284(LC 8)
Max Uplift 1=-32(LC 13), 9=-32(LC 12)
Max Grav 1=1197(LC 20), 9=1197(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1593/231, 3-4=-897/306, 6-7=-896/306, 7-9=-1593/231
BOT CHORD 1-12=-2/1023, 10-12=-2/1024, 9-10=-2/1023
WEBS 7-10=0/707, 3-12=0/707, 4-6=-963/378

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-9-0, Exterior(2) 11-9-0 to 15-10-15, Interior(1) 15-10-15 to 23-4-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.



August 25,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve	175843293
250544-A	P1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:01 2025 Page 1
ID:M8kbvA?WTlhi1vSeQ5icK_yWBWQ-RNUVgMcguOB_55MpRR1lvb2S88Yxn1iLd2padyylLdK

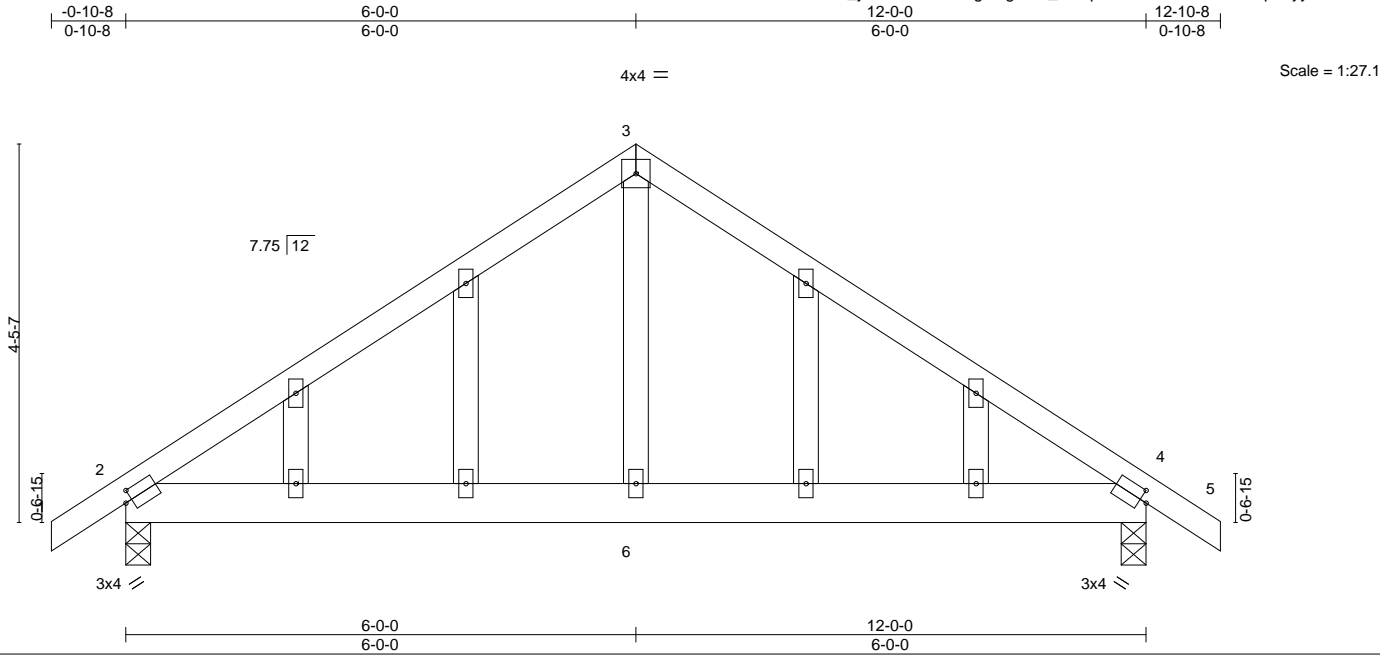


Plate Offsets (X,Y)--		[2:0-1-0,0-1-8], [4:0-1-0,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.01 4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Horz(CT)	-0.02 4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	0.02 2-6	>999	240	Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=-133(LC 10)
	Max Uplift 2=-120(LC 12), 4=-120(LC 13)
	Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-575/166, 3-4=-575/166
BOT CHORD	2-6=-27/396, 4-6=-27/396
WEBS	3-6=0/300

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-0-0, Corner(3) 6-0-0 to 10-4-13, Exterior(2) 10-4-13 to 12-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120, 4=120.



August 25,2025

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Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:01 2025 Page 1
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0-10-8 6-0-0 0-10-8

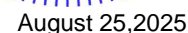


LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x6 SP No.1	BOT CHORD	
WEBS	2x4 SP No.2		

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

TOP CHORD	2-3=-575/538, 3-4=-575/538
BOT CHORD	2-6=-314/387, 4-6=-314/387
WEBS	3-6=-403/300

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-10-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TP1-19-169: 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	B1GE	GABLE	1	1	175843295

Comtech, Inc., Fayetteville, NC - 28314,

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ID:M8kbvA?WTIhi1vSeQ5icK_yWBWQ-ZcE_q?ZAq9gYcU32CbyMkltr_XD1sCKliQrNUBylLdO

-0-10-8
0-10-8

15-10-8
15-10-8

31-9-0
15-10-8

32-7-8
0-10-8

5x5 =

Scale = 1:69.4

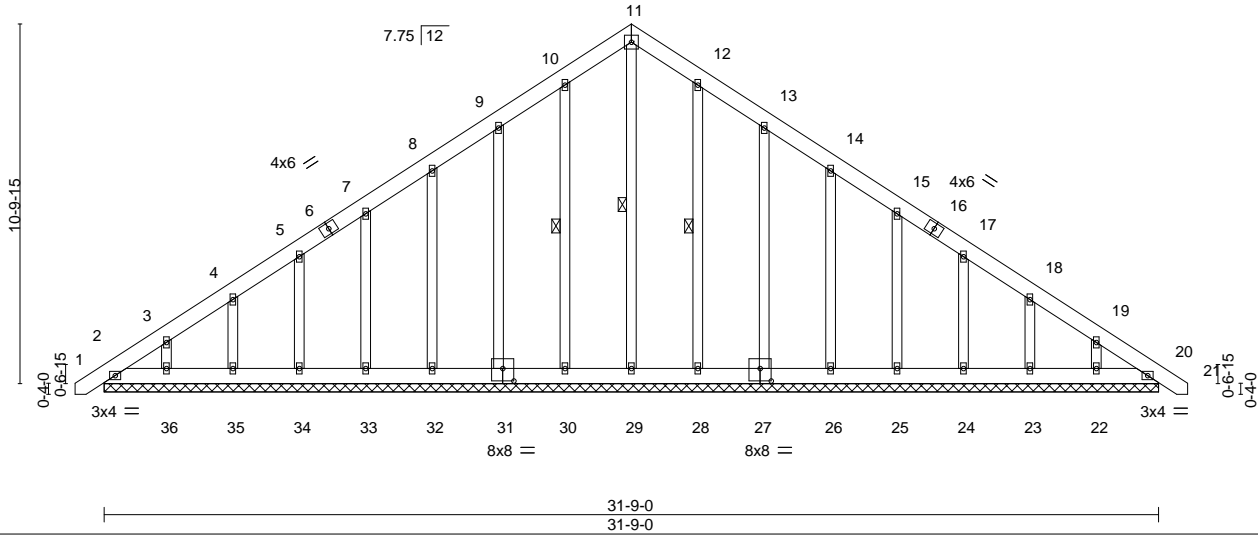


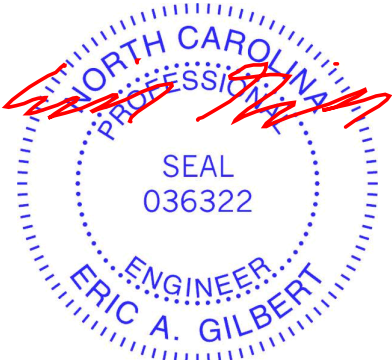
Plate Offsets (X,Y)--		[27:0-4-0,0-4-8], [31:0-4-0,0-4-8]	
LOADING (psf)		SPACING-	CSI.
TCLL	20.0	2-0-0	TC 0.05
TCDL	10.0	Plate Grip DOL 1.15	BC 0.02
BCLL	0.0 *	Lumber DOL 1.15	WB 0.16
BCDL	10.0	Rep Stress Incr YES	Matrix-S
		Code IRC2015/TPI2014	
		DEFL.	PLATES
		in (loc)	MT20
		Vert(LL) 0.00 20 n/r 120	GRIP 244/190
		Vert(CT) 0.00 20 n/r 120	
		Horz(CT) 0.01 20 n/a n/a	
			Weight: 282 lb FT = 20%

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

REACTIONS. All bearings 31-9-0.
(lb) - Max Horz 2=321(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 29, 30, 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=-324/241, 10-11=-244/277, 11-12=-244/277

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-8 to 3-10-8, Exterior(2) 3-10-8 to 15-10-8, Corner(3) 15-10-8 to 20-3-5, Exterior(2) 20-3-5 to 32-5-8 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, 20, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22.



August 25,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	B1	COMMON	6	1	175843296

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:56 2025 Page 1
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-0-10-8 5-8-5 10-8-12 15-10-8 21-0-4 26-0-11 31-9-0 32-7-8
0-10-8 5-8-5 5-0-7 5-1-12 5-1-12 5-0-7 5-8-5 0-10-8

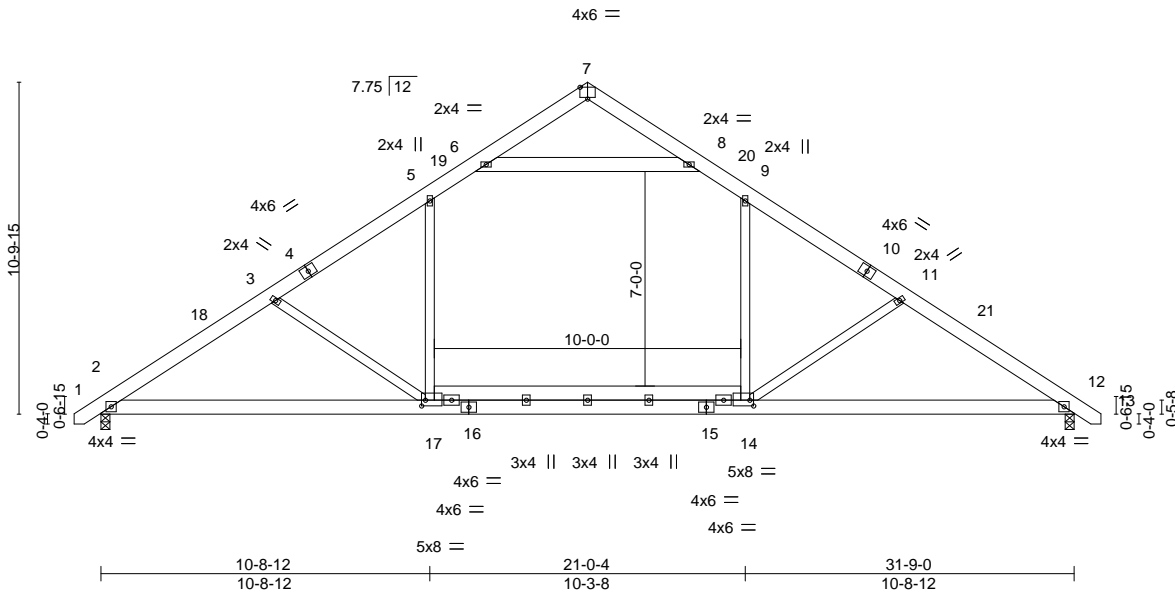


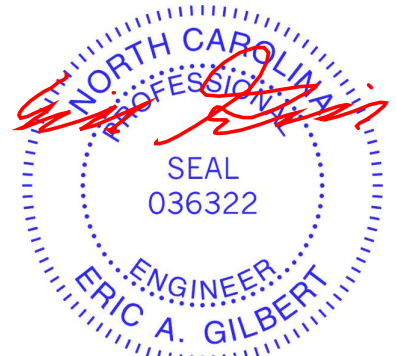
Plate Offsets (X,Y)-- [7:0-3-0,Edge], [14:0-1-8,0-2-4], [17:0-1-8,0-2-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.26 12-14	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.34 2-17	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.05 12	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.22 2-17	>999	240
				PLATES	GRIP		
				MT20	244/190		
				Weight: 246 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-8: 2x6 SP No.1	

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
	Max Horz 2=-257(LC 10)
	Max Uplift 2=-80(LC 12), 12=-80(LC 13)
	Max Grav 2=1452(LC 19), 12=1452(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2182/417, 3-5=-1923/365, 5-6=-1419/376, 8-9=-1420/376, 9-11=-1924/365, 11-12=-2182/417
BOT CHORD	2-17=-240/1960, 14-17=-66/1562, 12-14=-236/1767
WEBS	9-14=-2/683, 11-14=-485/224, 5-17=-2/683, 3-17=-484/224, 6-8=-1623/384

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 15-10-8, Exterior(2) 15-10-8 to 20-3-5, Interior(1) 20-3-5 to 32-5-8 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, 12.



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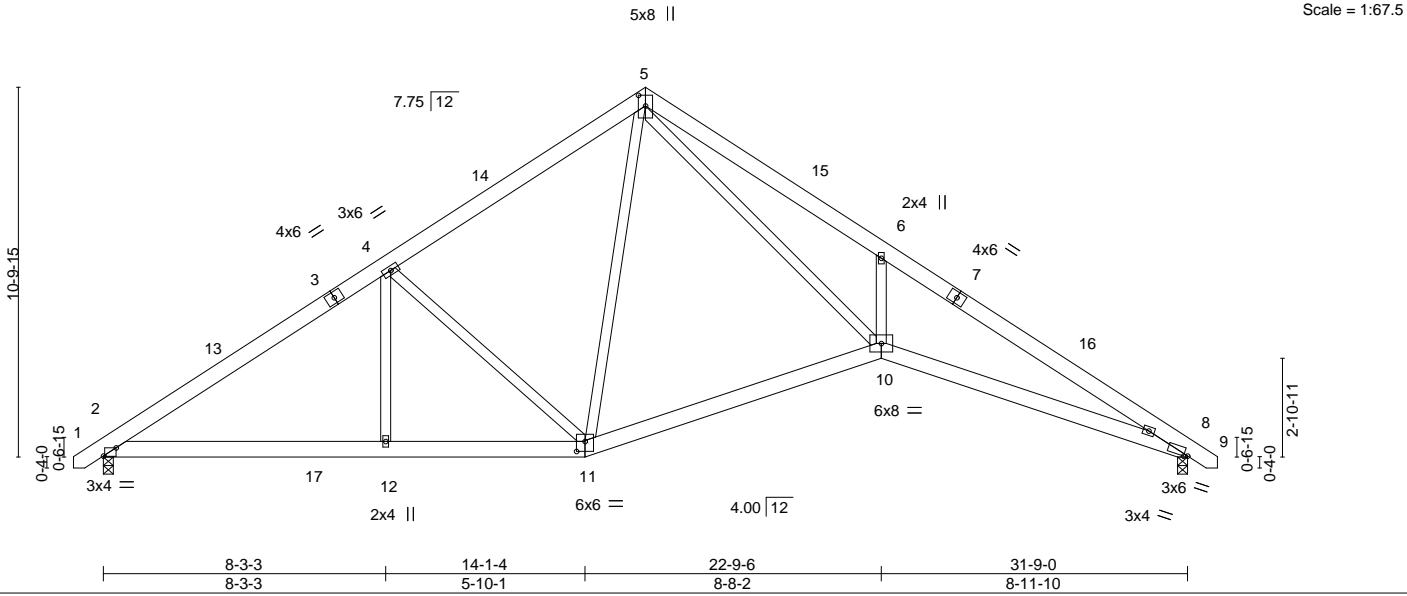
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Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	B2	ROOF SPECIAL	2	1	175843297

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:58 2025 Page 1
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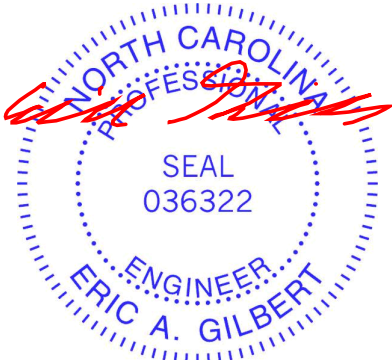
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.16 10 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.34 10-11 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.20 8 n/a n/a				
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.11 10 >999 240				
								Weight: 223 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-7-7 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=257(LC 11)
Max Uplift 2=-80(LC 12), 8=-80(LC 13)
Max Grav 2=1310(LC 1), 8=1310(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1896/375, 4-5=-1410/406, 5-6=-3402/764, 6-8=-3464/525
BOT CHORD 2-12=-166/1617, 11-12=-166/1617, 10-11=0/1127, 8-10=-332/2935
WEBS 4-12=0/307, 4-11=-709/249, 5-11=-101/355, 5-10=-476/2547, 6-10=-545/357

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 15-10-8, Exterior(2) 15-10-8 to 20-3-5, Interior(1) 20-3-5 to 32-5-8 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



August 25,2025

Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:50 2025 Page 1
 ID:M8kbvA7WTHi1vSeQ5lC_yWBWQ-GGJLMcUnU0oYHP1ildKjyG5XbjdtkPk5revk5yILdV
 0-10-8 8-5-12 18-10-8 28-9-6 37-9-0 38-7-8
 0-10-8 8-5-12 10-4-12 9-10-14 8-11-10 0-10-8



NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 18-10-8, Exterior(2) 18-10-8 to 23-3-5, Interior(1) 23-3-5 to 38-5-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 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.
- 8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 8 and 406 lb uplift at joint 13.



August 25, 2025



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 Components Association (www.sbcacompnents.com)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A02	ROOF SPECIAL	1	1	175843299

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:51 2025 Page 1

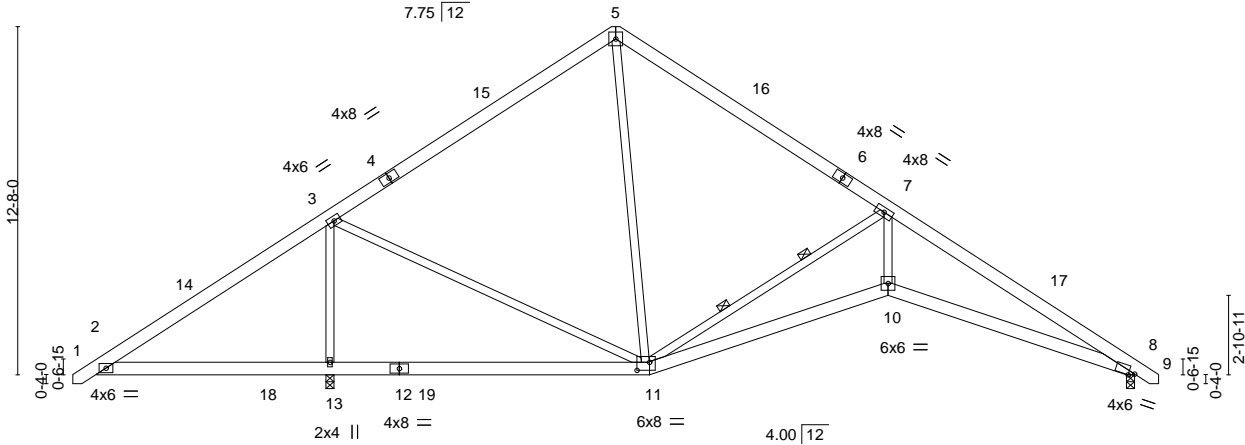
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Job Reference (optional)

-0-10-8 8-5-12 18-10-8 28-9-6 37-9-0 38-7-8
0-10-8 8-5-12 10-4-12 9-10-14 8-11-10 0-10-8

6x6 =

Scale = 1:83.8



8-5-12 20-1-4 28-9-6 37-9-0
8-5-12 11-7-8 8-8-2 8-11-10

Plate Offsets (X,Y)-- [8:0-2-10,0-1-3], [11:0-5-8,0-3-8]												
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	0.50	Vert(LL)	-0.13	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Horz(CT)	-0.27	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87		0.16	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	10	>999	240	Weight: 264 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-3-7 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	2 Rows at 1/3 pts 7-11

REACTIONS. (size) 8=0-3-8, 13=0-3-8
Max Horz 13=304(LC 11)
Max Uplift 8=88(LC 13), 13=118(LC 12)
Max Grav 8=1105(LC 1), 13=2000(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-487/681, 3-5=-842/201, 5-7=-881/216, 7-8=-2797/247
BOT CHORD 2-13=-443/508, 11-13=-531/497, 10-11=-67/2384, 8-10=-68/2394
WEBS 3-13=-1737/755, 3-11=-288/1063, 5-11=-27/347, 7-11=-2058/332, 7-10=0/1673

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 18-10-8, Exterior(2) 18-10-8 to 23-3-5, Interior(1) 23-3-5 to 38-5-8 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 8 and 118 lb uplift at joint 13.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A04	ROOF SPECIAL	5	1	175843301

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:52 2025 Page 1
ID:M8kbvA?WTIhi1vSeQ5lcK_yWBWQ-CfR5nIW10d2GWjA4P2NB2hAtQWODBnr0Y97cozylLdT
0-10-8 8-5-12 18-10-8 28-9-6 37-9-0
0-10-8 8-5-12 10-4-12 9-10-14 8-11-10

6x6 = Scale = 1:82.5

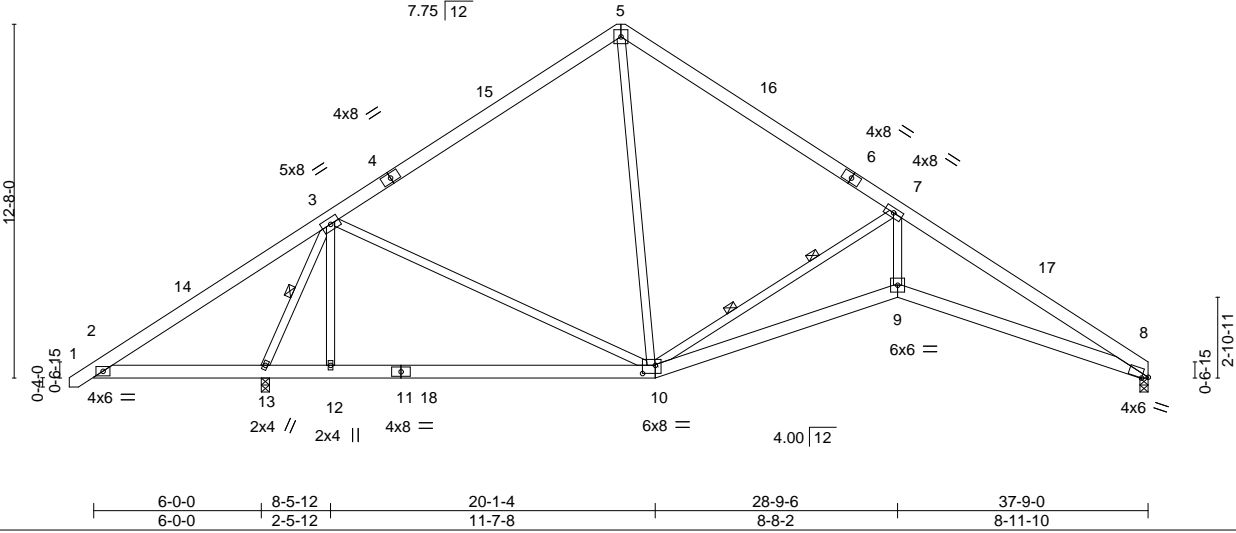


Plate Offsets (X,Y)-- [8:0-2-10,0-1-3], [10:0-5-8,0-3-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.16	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.32		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.20		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.11	Weight: 270 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2		6-0-0 oc bracing: 2-13.
		WEBS	1 Row at midpt 3-13
			2 Rows at 1/3 pts 7-10

REACTIONS. (size) 8=0-3-8, 13=0-3-8
Max Horz 13=301(LC 11)
Max Uplift 8=77(LC 13), 13=109(LC 12)
Max Grav 8=1207(LC 1), 13=1844(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-374/634, 3-5=-1068/291, 5-7=-1134/320, 7-8=-3341/472
BOT CHORD 2-13=-417/415, 12-13=-154/638, 10-12=-154/638, 9-10=-288/2859, 8-9=-290/2870
WEBS 3-12=0/456, 3-10=-92/426, 5-10=-47/599, 7-10=-2305/458, 7-9=-73/1968, 3-13=-1901/450

- NOTES-**
- Unbalanced roof live loads HAVING been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 18-10-8, Exterior(2) 18-10-8 to 23-3-5, Interior(1) 23-3-5 to 37-7-4 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 8 and 109 lb uplift at joint 13.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve	175843302
250544-A	A05	ROOF SPECIAL	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:52 2025 Page 1
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0-10-8 8-5-12 18-10-8 28-9-6 37-9-0 38-7-8
0-10-8 8-5-12 10-4-12 9-10-14 8-11-10 0-10-8

6x6 =

Scale = 1:83.8

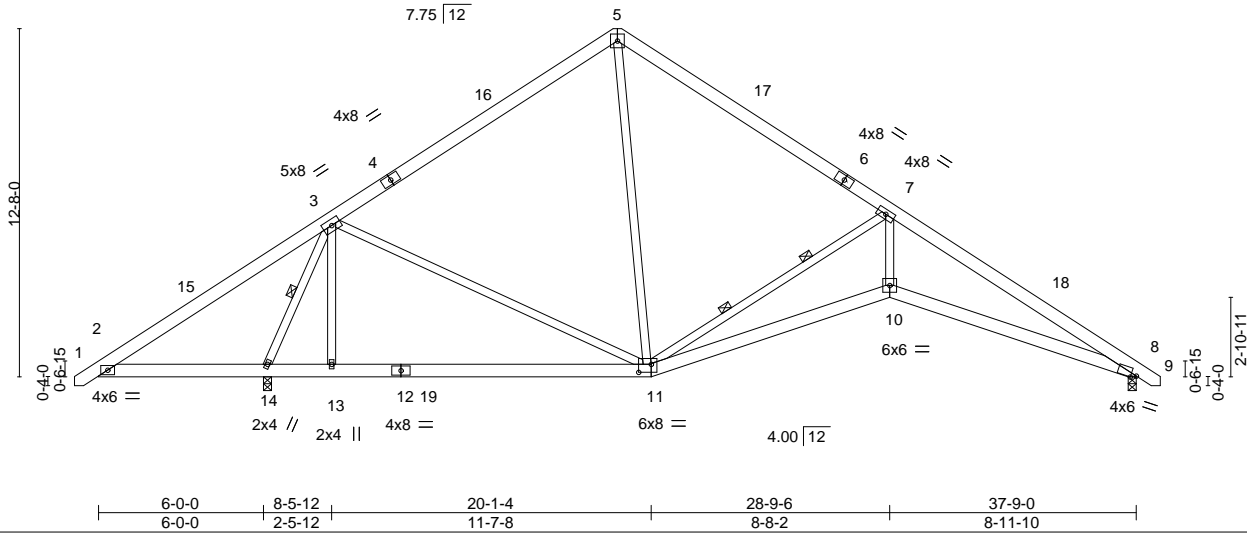


Plate Offsets (X,Y)-- [8:0-2-6,Edge], [11:0-5-8,0-3-8]										
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL)	-0.16	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.51	Vert(CT)	-0.32	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT)	0.20	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.11	10	>999	240	Weight: 272 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 3-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-14.
WEBS 1 Row at midpt 3-14
2 Rows at 1/3 pts 7-11

REACTIONS.

(size) 8=0-3-8, 14=0-3-8
Max Horz 14=304(LC 11)
Max Uplift 8=89(LC 13), 14=109(LC 12)
Max Grav 8=1260(LC 1), 14=1843(LC 1)

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

TOP CHORD 2-3=-374/634, 3-5=-1067/290, 5-7=-1132/316, 7-8=-3335/433
BOT CHORD 2-14=-417/415, 13-14=-149/642, 11-13=-149/642, 10-11=-228/2851, 8-10=-231/2863
WEBS 3-13=0/456, 3-11=-92/426, 5-11=-42/597, 7-11=-2298/423, 7-10=-39/1964,
3-14=-1901/450

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-4, Interior(1) 3-8-4 to 18-10-8, Exterior(2) 18-10-8 to 23-3-5, Interior(1) 23-3-5 to 38-5-8 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.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 8 and 109 lb uplift at joint 14.



August 25,2025

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	Lot 32 West Preserve
250544-A	A06	ROOF SPECIAL	2	1	175843303

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:53 2025 Page 1
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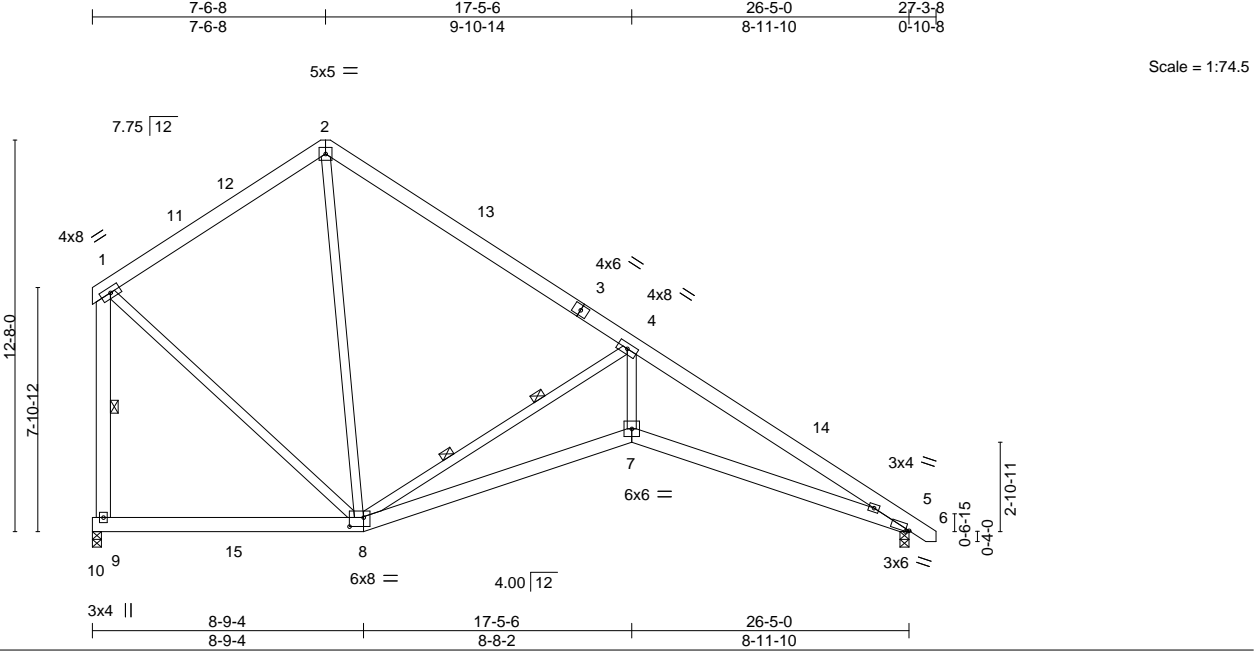


Plate Offsets (X,Y)-- [5:0-1-6,0-0-11], [8:0-5-8,0-3-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.12 7 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.25 5-7 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.16 5 n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07 7 >999 240	Weight: 211 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 "Except"	WEBS	1 Row at midpt 1-9
	1-9: 2x6 SP No.1		2 Rows at 1/3 pts 4-8

REACTIONS.	
(size)	5=0-3-8, 9=0-3-8
Max Horz	9=-314(LC 13)
Max Uplift	5=-54(LC 13), 9=-90(LC 13)
Max Grav	5=1089(LC 1), 9=1159(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-703/249, 2-4=-790/233, 4-5=-2738/294, 1-9=-954/304
BOT CHORD	8-9=-267/316, 7-8=-138/2342, 5-7=-140/2342
WEBS	2-8=0/324, 4-8=-2034/376, 4-7=0/1646, 1-8=-122/684

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 27-1-8 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.
 - Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5 and 90 lb uplift at joint 9.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A07	COMMON	1	1	175843304

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:53 2025 Page 1
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1-6-13 7-6-8 16-7-13 26-5-0 27-3-8
1-6-13 7-6-8 9-1-5 9-9-3 0-10-8

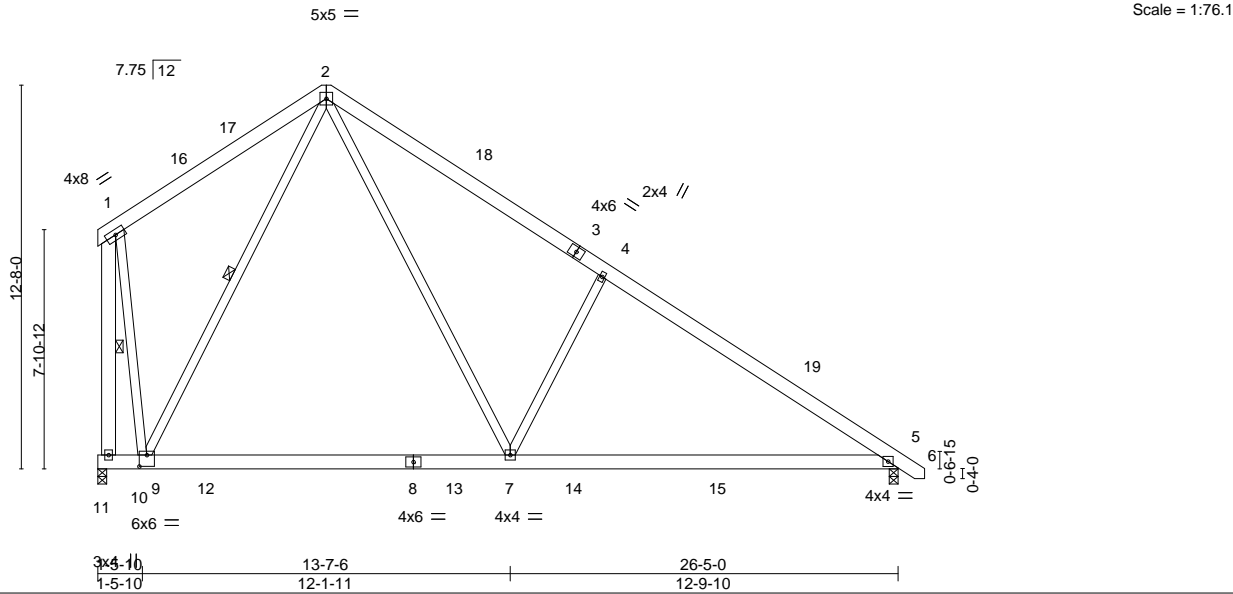


Plate Offsets (X,Y)-- [9:0-3-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.24 7-9 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.34 5-7 >925 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.02 5 n/a n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-S		Wind(LL)	0.06 5-7 >999 240	Weight: 216 lb	FT = 20%

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

REACTIONS. (size) 5=0-3-8, 10=0-3-8
Max Horz 10=-314(LC 13)
Max Uplift 5=-54(LC 13), 10=-90(LC 13)
Max Grav 5=1283(LC 20), 10=1324(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-379/145, 2-4=-1485/340, 4-5=-1651/237, 1-10=-1675/134
BOT CHORD 9-10=-263/310, 7-9=0/624, 5-7=-50/1281
WEBS 2-9=-814/192, 2-7=-194/1334, 4-7=-654/365, 1-9=0/1409

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5 to 27-1-8 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 54 lb uplift at joint 5 and 90 lb uplift at joint 10.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A08	COMMON	2	1	175843305

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:54 2025 Page 1
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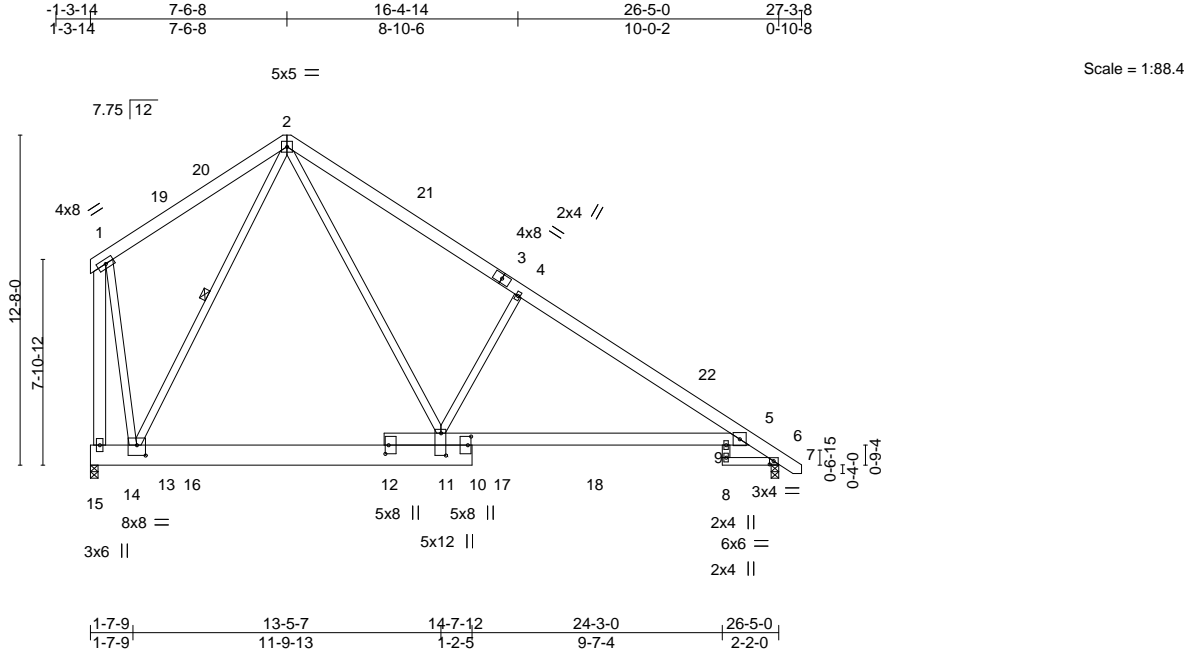


Plate Offsets (X,Y)--		[6:0-1-13,0-1-8], [10:0-4-0,0-1-8], [11:0-10-4,0-2-4], [12:0-4-0,0-1-8], [13:0-4-0,0-4-12]										
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.15		TC 0.68		Vert(LL)	-0.22 9-11	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL	1.15		BC 0.60		Vert(CT)	-0.45 9-11	>694	240		
BCLL 0.0 *		Rep Stress Incr	YES		WB 0.73		Horz(CT)	0.16 6	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014			Matrix-S		Wind(LL)	0.13 9-11	>999	240	Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 2-13
1-14: 2x6 SP No.1	

REACTIONS. (size) 6=0-3-8, 14=0-3-8
Max Horz 14=-315(LC 13)
Max Uplift 6=-56(LC 13), 14=-89(LC 13)
Max Grav 6=1235(LC 20), 14=1289(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-331/152, 2-4=-1609/333, 4-5=-1761/242, 5-6=-803/146, 1-14=-1228/172
BOT CHORD 13-14=-264/311, 11-13=0/695, 9-11=-54/1416, 5-9=-42/1416
WEBS 2-13=-929/179, 2-11=-185/1526, 4-11=-682/348, 1-13=0/983

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 27-1-8 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 56 lb uplift at joint 6 and 89 lb uplift at joint 14.



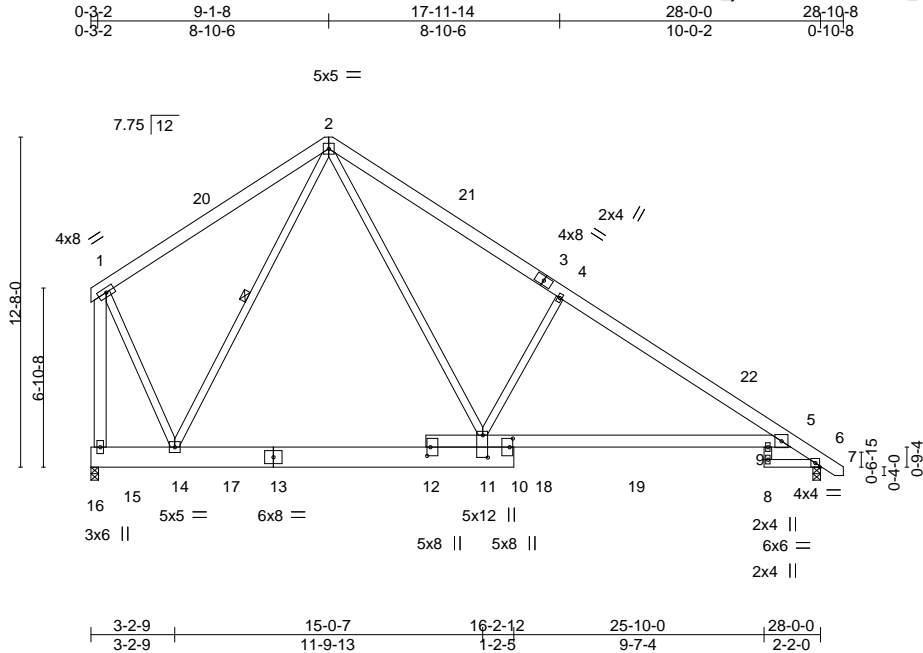
August 25,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A09	COMMON	5	1	175843306

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:54 2025 Page 1
ID:M8kbvA?WTIhi1vSeQ5IcK_yWBWQ-81ZsCzXHxEI_J0KTXTPf76F95J3if7J0ScjtsyILdR



Scale = 1:88.4

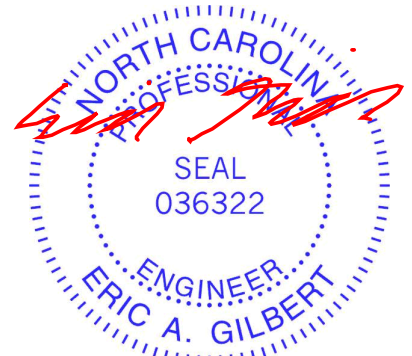
Plate Offsets (X,Y)--		[10:0-4-0,0-1-8], [11:0-10-4,0-2-4], [12:0-4-0,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73
TCDL 10.0	Lumber DOL	1.15	BC 0.64
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57
BCDL 10.0	Code	IRC2015/TP12014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.24	9-11	>999
Vert(CT)	-0.48	9-11	>694
Horz(CT)	0.18	6	n/a
Wind(LL)	0.14	9-11	>999
PLATES	GRIP		
MT20	244/190		
Weight: 252 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 2-14
1-15: 2x6 SP No.1	

REACTIONS. (size) 6=0-3-8, 15=0-3-8
Max Horz 15=-294(LC 13)
Max Uplift 6=-66(LC 13), 15=-73(LC 13)
Max Grav 6=1311(LC 20), 15=1318(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-588/200, 2-4=-1758/378, 4-5=-1910/287, 5-6=-855/162, 1-15=-1314/223
BOT CHORD 14-15=-230/303, 11-14=0/821, 9-11=-89/1544, 5-9=-79/1544
WEBS 1-14=-2/959, 2-14=-721/147, 2-11=-186/1526, 4-11=-679/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 9-1-8, Exterior(2) 9-1-8 to 13-6-5, Interior(1) 13-6-5 to 28-8-8 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 66 lb uplift at joint 6 and 73 lb uplift at joint 15.



August 25,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A10GE	GABLE	1	1	175843307
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, ID:M8kbvA?WTlhi1vSeQ5lcK_yWBWQ-TfxQAYGRaOdqMkPeWaQNk1HUcsG6?NWpdGD5WcykUsU 25.2.0 s May 29 2025 MiTek Industries, Inc. Mon Aug 25 11:00:31 2025 Page 1

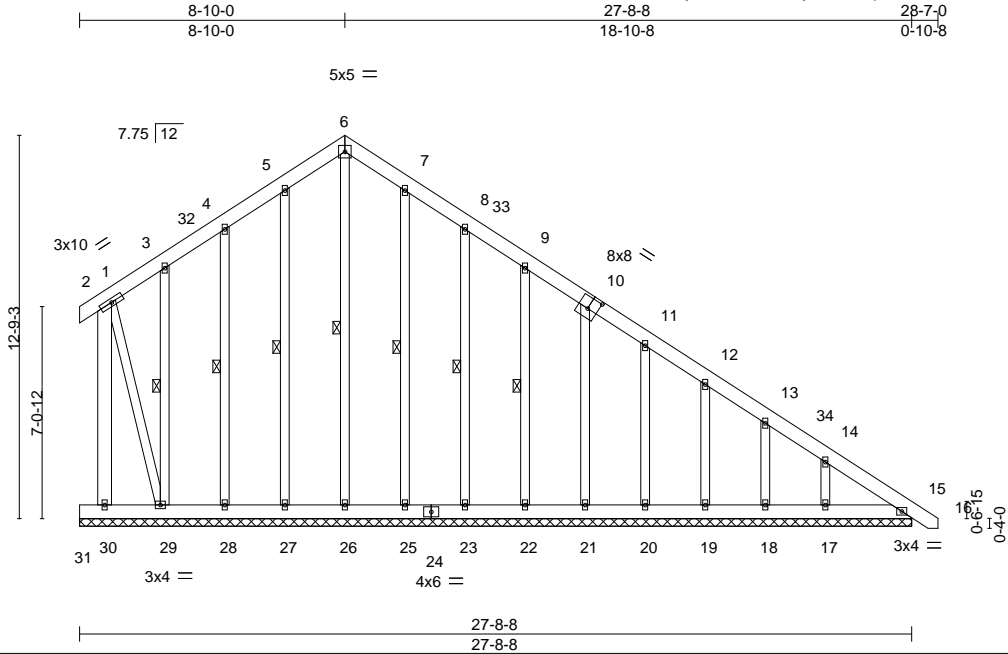


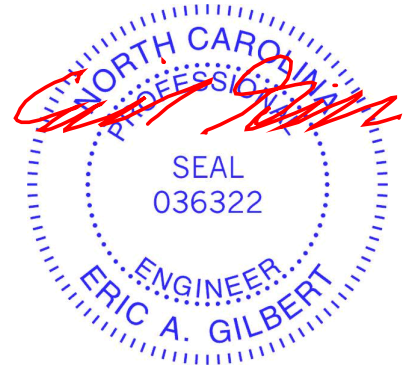
Plate Offsets (X,Y)-- [10:0-4-0,0-4-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	Plate Grip DOL	1.15	TC	0.09	GRIP
TCDL	Lumber DOL	1.15	BC	0.02	244/190
BCLL	Rep Stress Incr	YES	WB	0.29	
BCDL	Code	IRC2015/TPI2014	Matrix-S		
Weight: 302 lb FT = 20%					

LUMBER-			BRACING-		
TOP CHORD	2x6 SP No.1		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	2x6 SP No.1		BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:	
WEBS	2x4 SP No.2			10-0-0 oc bracing: 30-31,29-30.	
OTHERS	2x4 SP No.2 *Except*		WEBS	1 Row at midpt	6-26, 5-27, 4-28, 3-29, 7-25, 8-23, 9-22
	2-30: 2x6 SP No.1				

REACTIONS. All bearings 27-8-8.
(lb) - Max Horz 1=-438(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 27, 30, 22, 21, 20, 19, 18, 15 except
1=-224(LC 13), 26=-100(LC 11), 28=-107(LC 12), 29=-302(LC 13), 23=-112(LC 13), 17=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 31, 27, 28, 29, 25, 23, 22, 21, 20, 19, 18, 17, 15 except 26=460(LC 13), 30=254(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-327/495, 2-3=-301/477, 3-32=-334/489, 4-32=-314/497, 4-5=-406/556, 5-6=-422/546, 6-7=-422/532, 7-8=-406/510, 8-33=-319/424, 9-33=-339/413, 9-10=-279/347, 10-11=-224/278
WEBS 6-26=-436/266, 2-29=-254/326

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-10-0, Exterior(2) 8-10-0 to 13-2-13, Interior(1) 13-2-13 to 28-5-0 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable 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) 27, 30, 22, 21, 20, 19, 18, 15 except (jt=lb) 1=224, 26=100, 28=107, 29=302, 23=112, 17=120.



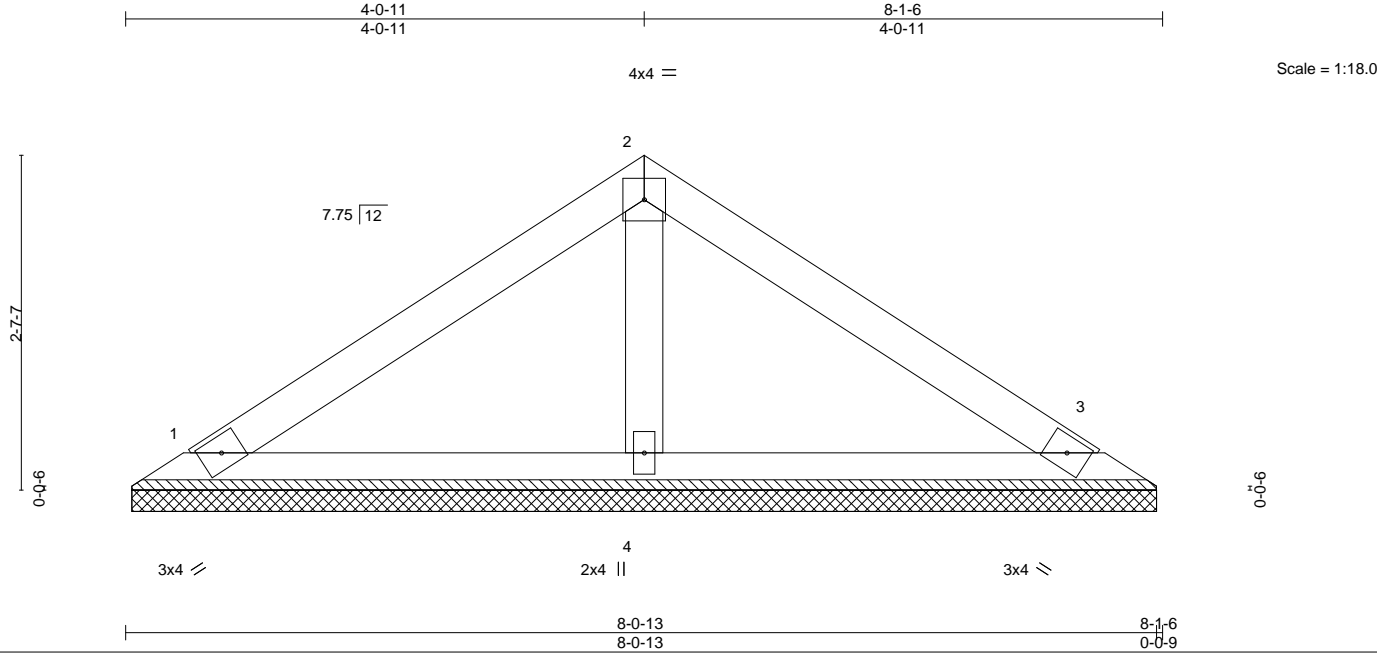
August 25,2025

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	VP1	VALLEY	1	1	175843308

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:03 2025 Page 1
ID:M8kbvA?WTIhi1vSeQ5icK_yWBWQ-NmcF52exQ?RiKPWCYs3m_07qSyFKFyse4MlhrylLd



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	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 IRC2015/TPI2014		Matrix-P						Weight: 27 lb	FT = 20%

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

REACTIONS. (size) 1=8-0-4, 3=8-0-4, 4=8-0-4
Max Horz 1=-55(LC 8)
Max Uplift 1=-24(LC 12), 3=-30(LC 13)
Max Grav 1=153(LC 1), 3=153(LC 1), 4=262(LC 1)

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

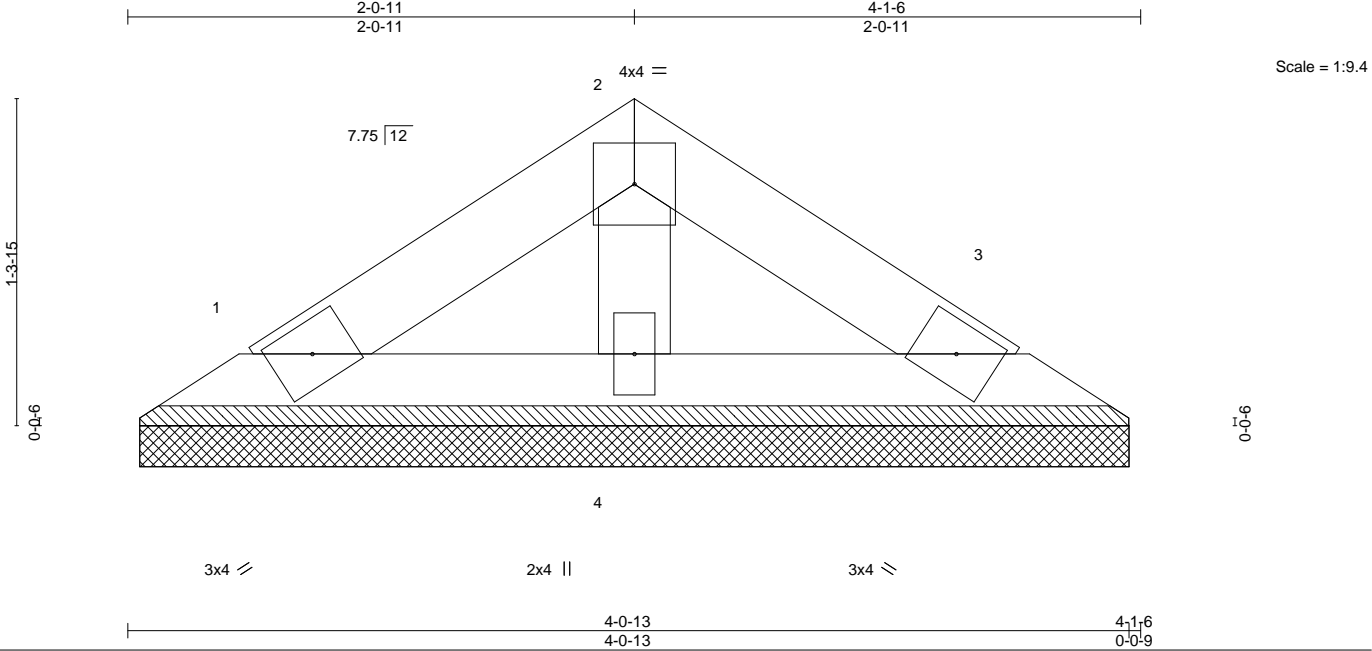
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	VP2	VALLEY	1	1	175843309

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:03 2025 Page 1
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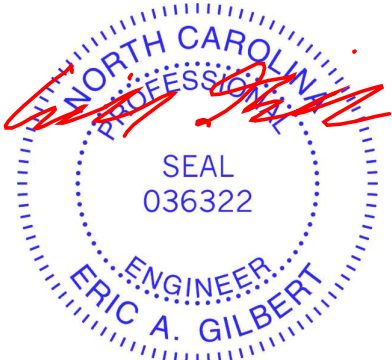
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=4-0-4, 3=4-0-4, 4=4-0-4
Max Horz 1=-24(LC 8)
Max Uplift 1=-11(LC 12), 3=-13(LC 13)
Max Grav 1=67(LC 1), 3=67(LC 1), 4=114(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	C2	COMMON	5	1	175843310

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:59 2025 Page 1
ID:M8kbvA?WTlhi1vSeQ5icK_yWBWQ-V?MIFhbQMnwGsoDRJ0?qqAz45KnMK?z29kKUY3ylLdM

0-10-8 6-7-4 11-9-0 16-10-12 23-6-0 24-4-8
0-10-8 6-7-4 5-1-12 5-1-12 6-7-4 0-10-8

4x6 =

Scale = 1:73.9

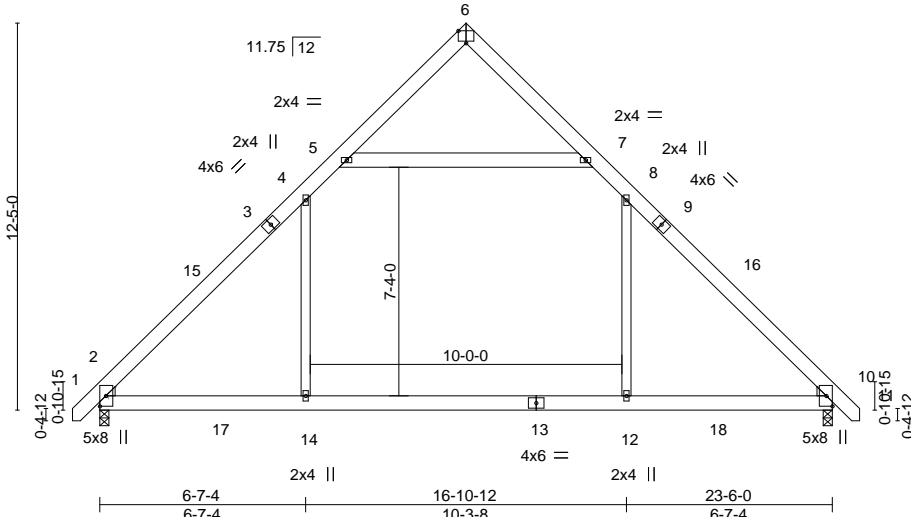


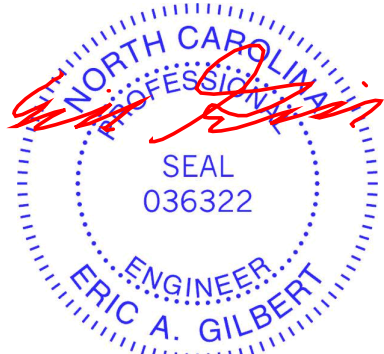
Plate Offsets (X,Y)--		[6:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39
TCDL 10.0	Lumber DOL	1.15	BC 0.54
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59
BCDL 10.0	Code	IRC2015/TP12014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.21 12-14 >999 360
			Vert(CT) -0.29 12-14 >975 240
			Horz(CT) 0.02 10 n/a n/a
			Wind(LL) 0.19 2-14 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 178 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
5-7: 2x6 SP No.1	
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-293(LC 10)
Max Uplift 2=-41(LC 12), 10=-41(LC 13)
Max Grav 2=1242(LC 19), 10=1242(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1594/233, 4-5=-894/301, 7-8=-894/301, 8-10=-1593/233
BOT CHORD 2-14=0/1024, 12-14=0/1025, 10-12=0/1024
WEBS 8-12=0/712, 4-14=0/712, 5-7=-954/364

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 11-9-0, Exterior(2) 11-9-0 to 15-10-15, Interior(1) 15-10-15 to 24-3-0 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, 10.



August 25,2025

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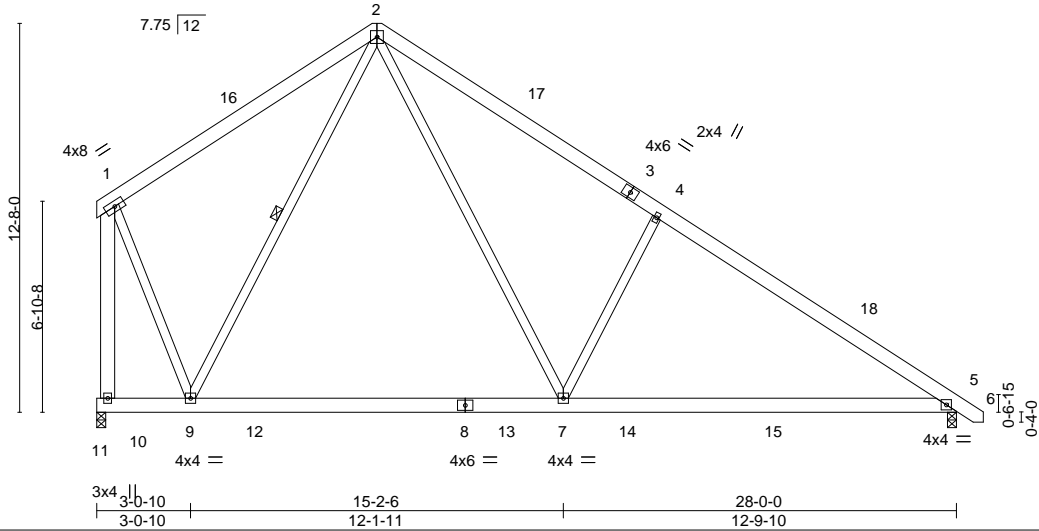
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	A10	COMMON	1	1	175843311

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:41:55 2025 Page 1
ID:M8kbvA?WTIhi1vSeQ5lcK_yWBWQ-cE7EPJYviYQrNAvi4AwufKoMijMVOBtTF6MGPIylLdQ
0-0-3 9-1-8 18-2-13 28-0-0 28-10-8
0-0-3 9-1-5 9-1-5 9-9-3 0-10-8

5x5 =

Scale = 1:75.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	Vert(LL)	-0.25	7-9	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT)	-0.34	5-7	>979	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.06	5-7	>999	240		
	Code IRC2015/TPI2014							Weight: 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 2-9
1-10: 2x6 SP No.1	

REACTIONS. (size) 5=0-3-8, 10=0-3-8
Max Horz 10=-293(LC 13)
Max Uplift 5=-64(LC 13), 10=-74(LC 13)
Max Grav 5=1360(LC 20), 10=1347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-629/196, 2-4=-1621/380, 4-5=-1788/278, 1-10=-1508/214
BOT CHORD 9-10=-232/301, 7-9=0/747, 5-7=-82/1395
WEBS 1-9=0/1138, 2-9=-610/154, 2-7=-188/1326, 4-7=-644/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 9-1-8, Exterior(2) 9-1-8 to 13-6-5, Interior(1) 13-6-5 to 28-8-8 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 64 lb uplift at joint 5 and 74 lb uplift at joint 10.



August 25, 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)

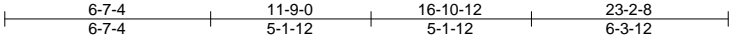
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	C4	COMMON	5	1	175843312

Comtech, Inc., Fayetteville, NC - 28314,

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ID:M8kbvA?WTlhi1vSeQ5lcK_yWBWQ-zBw7S1c27427TxodtjW3MNVF_k5_2T1COO315WylLdL



4x6 =

Scale = 1:73.9

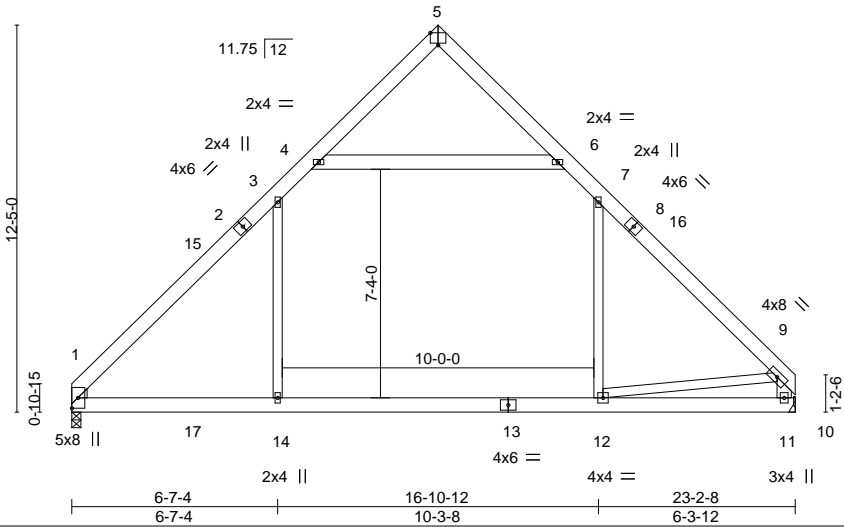


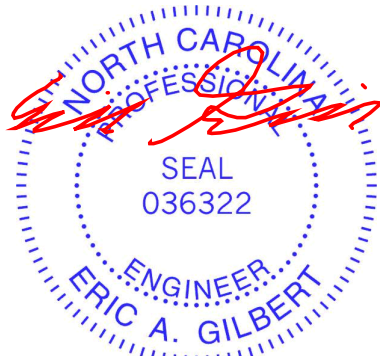
Plate Offsets (X,Y)-- [5:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.23 12-14 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.31 12-14 >892 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.01 11 n/a n/a		
BCDL	10.0	Code IRC2015/TP12014		Matrix-S		Wind(LL)	0.19 1-14 >999 240	Weight: 181 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS	2x4 SP No.2 "Except"		
	9-11,4-6: 2x6 SP No.1		
WEDGE			
Left: 2x4 SP No.1			

REACTIONS. (size) 1=0-3-8, 11=Mechanical
Max Horz 1=283(LC 9)
Max Uplift 1=30(LC 13), 11=30(LC 12)
Max Grav 1=1145(LC 20), 11=1096(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1476/218, 3-4=-818/299, 6-7=-851/298, 7-9=-1386/231, 9-11=-1195/224
BOT CHORD 1-14=-21/935, 12-14=-20/936, 11-12=-166/268
WEBS 3-14=0/652, 7-12=0/518, 9-12=-187/1023, 4-6=-871/360

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-9-0, Exterior(2) 11-9-0 to 15-10-15, Interior(1) 15-10-15 to 22-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.



August 25,2025

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/TP1 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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	C1GE	GABLE	1	1	175843313

Comtech, Inc., Fayetteville, NC - 28314,

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ID:M8kbvA?WTIh1vSeQ5lcK_yWBWQ-1poM1LaobToPEeeEmItbHyQ?fxZ2beZvx4aw0dyLdN

-0-10-8 11-9-0 23-6-0 24-4-8
0-10-8 11-9-0 11-9-0 0-10-8

5x5 =

Scale = 1:74.4

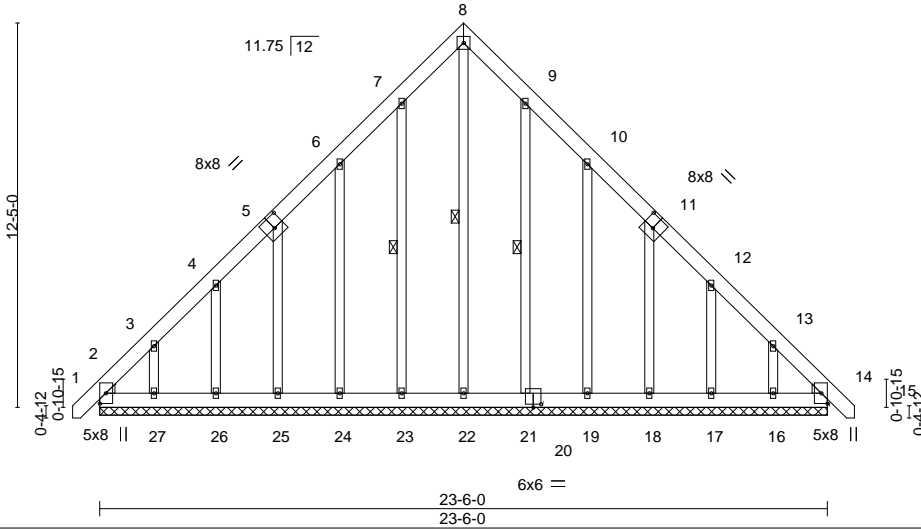
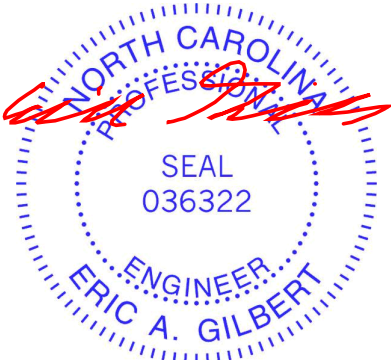


Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [11:0-4-0,0-4-8], [20:0-3-0,0-1-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(LL)	-0.00 14	n/r 120	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Vert(CT)	0.00 14	n/r 120	
BCDL	10.0	Code	IRC2015/TP12014	Matrix-S		Horz(CT)	0.01 14	n/a n/a	
								Weight: 239 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt 8-22, 7-23, 9-21
WEDGE			
Left: 2x4 SP No.2 , Right: 2x4 SP No.2			
REACTIONS. All bearings 23-6-0.			
(lb) - Max Horz 2=-367(LC 10)			
Max Uplift All uplift 100 lb or less at joint(s) 14, 23, 21 except 2=-154(LC 10),			
24=-161(LC 12), 25=-135(LC 12), 26=-117(LC 12), 27=-208(LC 12), 19=-164(LC			
13), 18=-136(LC 13), 17=-116(LC 13), 16=-201(LC 13)			
Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 27, 21, 19,			
18, 17, 16 except 2=350(LC 12), 14=306(LC 13)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD 2-3=-507/298, 3-4=-334/226, 12-13=-281/168, 13-14=-451/302			
BOT CHORD 2-27=-229/356, 26-27=-230/356, 25-26=-231/357, 24-25=-239/360, 23-24=-240/361,			
22-23=-240/361, 21-22=-240/361, 19-21=-240/361, 18-19=-239/360, 17-18=-231/353,			
16-17=-230/352, 14-16=-229/351			

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-0 to 3-8-13, Exterior(2) 3-8-13 to 11-9-0, Corner(3) 11-9-0 to 16-1-13, Exterior(2) 16-1-13 to 24-3-0 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/TP1 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, 21 except (jt=lb) 2=154, 24=161, 25=135, 26=117, 27=208, 19=164, 18=136, 17=116, 16=201.	



August 25,2025

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	Lot 32 West Preserve
250544-A	VC1	VALLEY	1	1	175843314

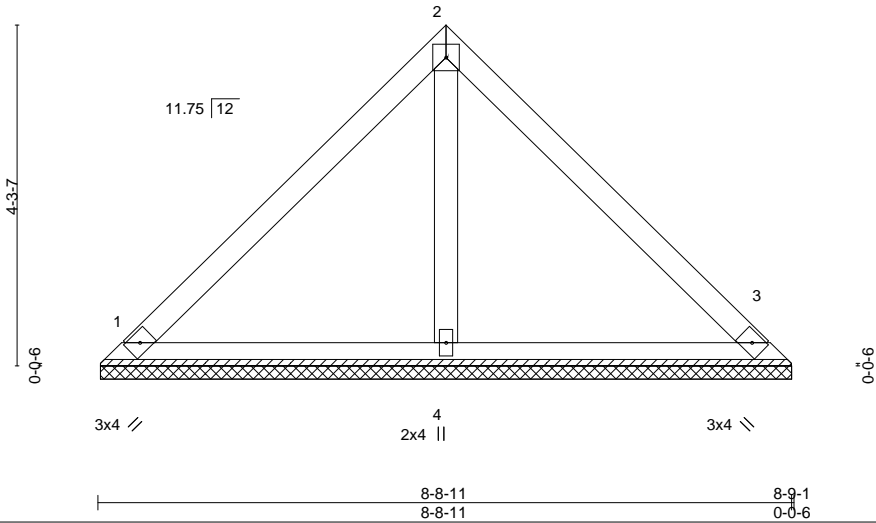
Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:02 2025 Page 1
ID:M8kbvA?WTlhi1vSeQ5icK_yWBWQ-va2tidlfJrjFx??8YXRobdBYvgWVMVsiY89OylLdJ



4x4 =

Scale = 1:29.0



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.27	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 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 35 lb	FT = 20%

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

REACTIONS. (size) 1=8-8-5, 3=8-8-5, 4=8-8-5
Max Horz 1=-94(LC 8)
Max Uplift 1=-34(LC 13), 3=-35(LC 13)
Max Grav 1=195(LC 1), 3=195(LC 1), 4=254(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

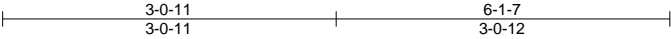


August 25,2025

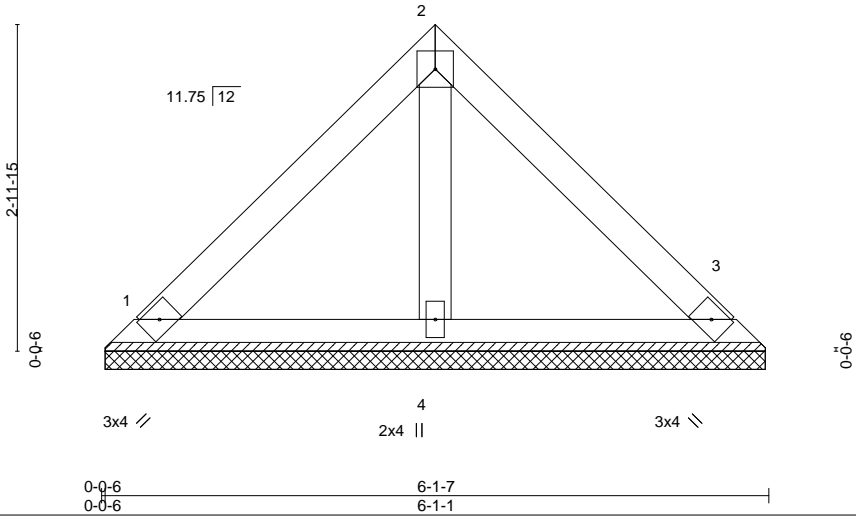
Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	VC2	VALLEY	1	1	175843315

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:02 2025 Page 1
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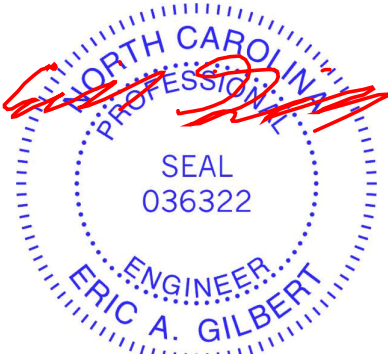
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 24 lb	FT = 20%
	Code IRC2015/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 Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=6-0-11, 3=6-0-11, 4=6-0-11
Max Horz 1=-63(LC 8)
Max Uplift 1=-23(LC 13), 3=-24(LC 13)
Max Grav 1=131(LC 1), 3=131(LC 1), 4=171(LC 1)

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

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



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve
250544-A	VC3	VALLEY	1	1	175843316

Comtech, Inc., Fayetteville, NC - 28314,

25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:03 2025 Page 1

ID:M8kbvA?WTIh1vSeQ5lck_yWBWQ-NmcF52exQ?RiKPWCys3m_07sjyFmFyEe4MlhrylLd

Job Reference (optional)

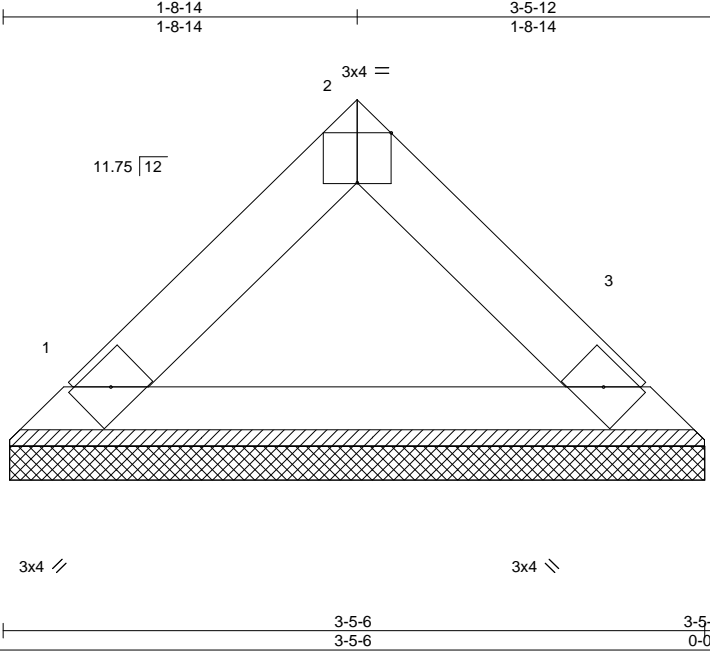


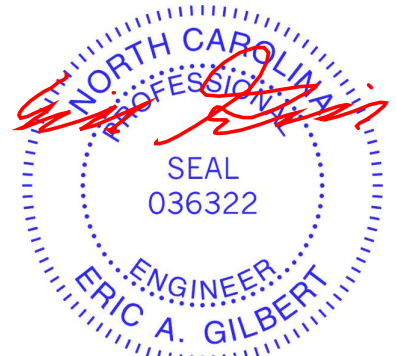
Plate Offsets (X,Y)-- [2:0-2:0,Edge]		3-5-6		3-5-12	
		3-5-6		0-0-6	
LOADING (psf)		SPACING-		CSI.	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03
TCDL	10.0	Lumber DOL	1.15	BC	0.07
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P	
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) n/a - n/a 999	
				Vert(CT) n/a - n/a 999	
				Horz(CT) 0.00 3 n/a n/a	
				PLATES	
				MT20	
				GRIP	
				244/190	
				Weight: 11 lb	
				FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-5-12 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-5-0, 3=3-5-0
Max Horz 1=-32(LC 8)
Max Uplift 1=-4(LC 12), 3=-4(LC 13)
Max Grav 1=111(LC 1), 3=111(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 25,2025

Job	Truss	Truss Type	Qty	Ply	Lot 32 West Preserve	175843317
250544-A	G1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:01 2025 Page 1
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0-10-8 10-0-0 10-0-0 0-10-8

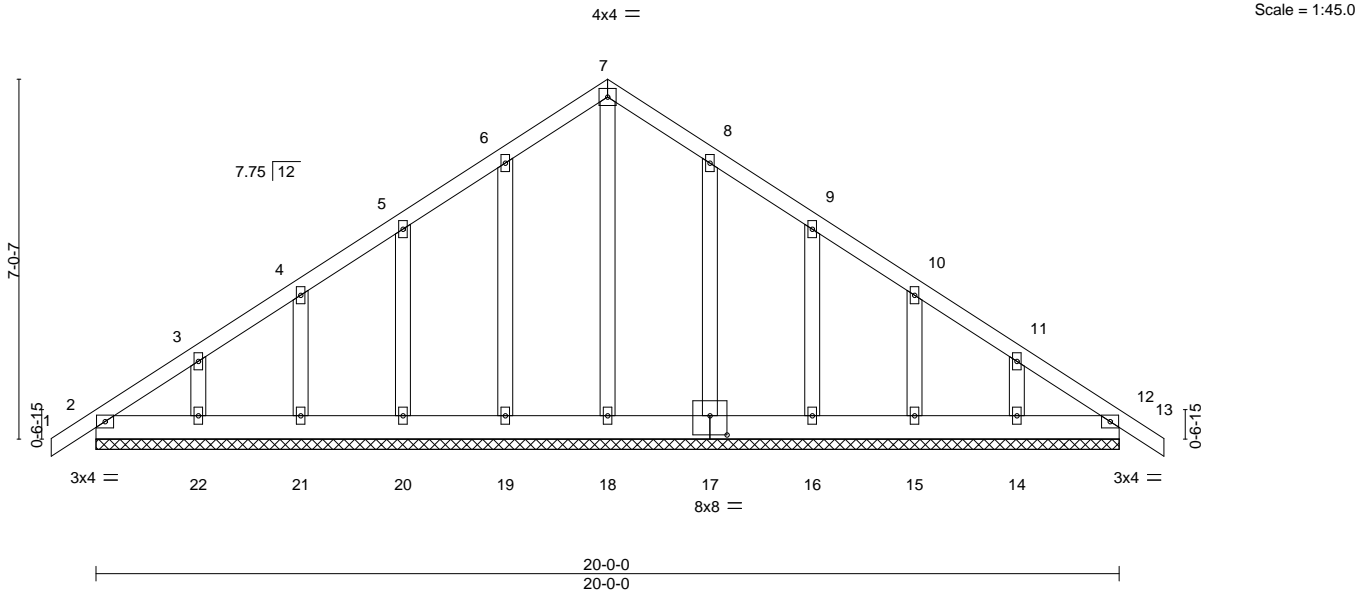


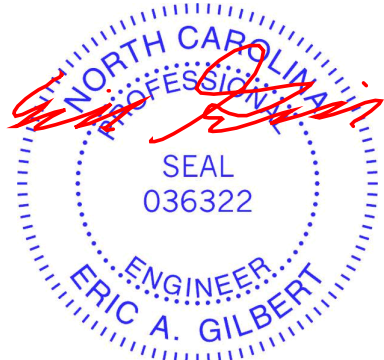
Plate Offsets (X,Y)-- [17:0-4-0,0-4-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	12	n/r	120	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	12	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	12	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 132 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=210(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 17, 16, 15, 14 except 22=102(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-10-8 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) 12, 2, 19, 20, 21, 17, 16, 15, 14 except (jt=lb) 22=102.

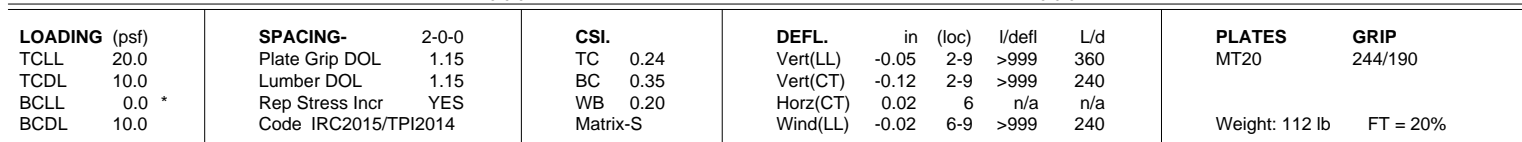


August 25,2025

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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Comtech, Inc. Fayetteville, NC - 28314, 25.3.0 s Aug 20 2025 MiTek Industries, Inc. Fri Aug 22 08:42:00 2025 Page 1
 ID:M8kbvA?WtIh1vSeQ5lc_K_yWBWQ-zBw7S1c27427TxodtjW3MNVIEkAf2YOCOO315WylDL
 0-10-8 5-2-2 10-0-0 14-9-14 20-0-0 20-10-8
 0-10-8 5-2-2 4-9-14 4-9-14 5-2-2 0-10-8



August 25, 2025

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TP1-19-169: 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

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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

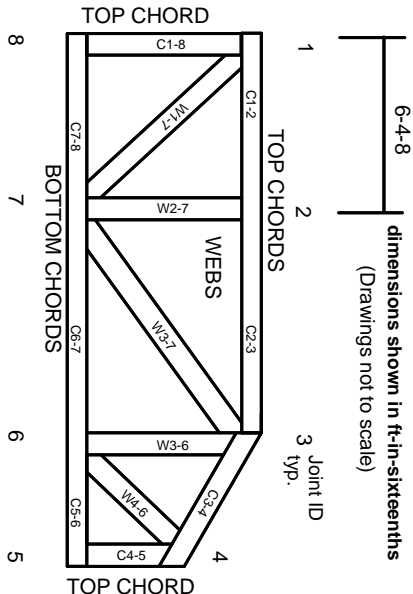


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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