

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1597
Cates/Lot 102 Ducks Landing/Harnett

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

Pages or sheets covered by this seal: I73920639 thru I73920670

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

North Carolina COA: C-0844



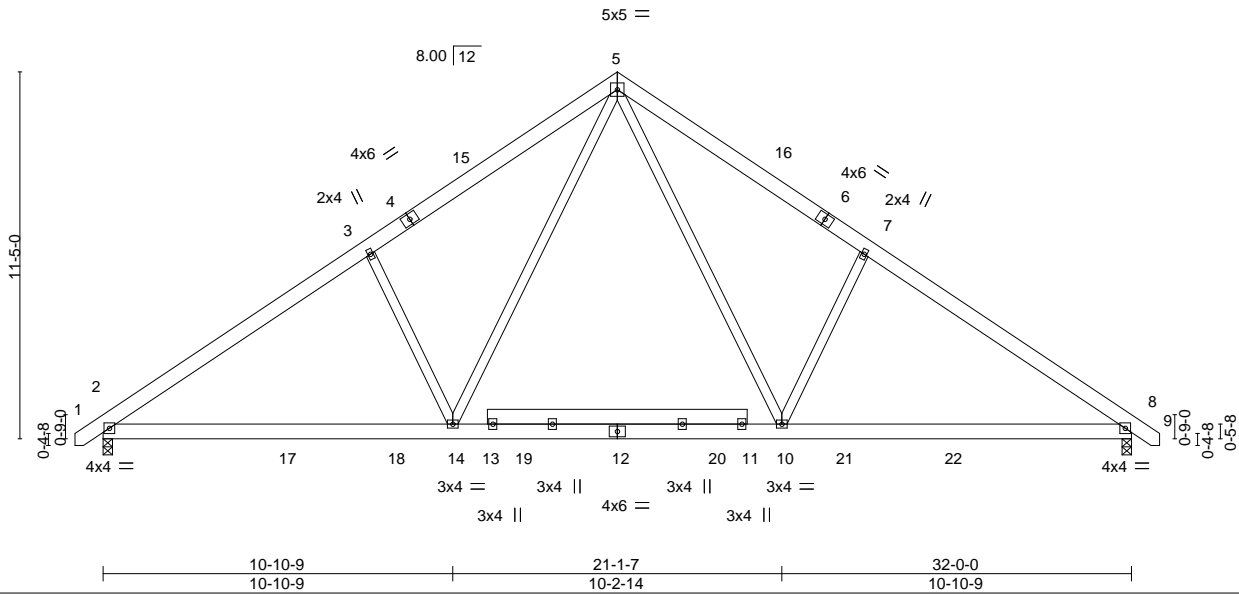
June 4, 2025

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	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	A1	COMMON	9	1	173920639

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:37 2025 Page 1
ID:aDWe9B_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f
0-10-8 8-3-14 16-0-0 23-8-3 32-0-0 32-10-8
0-10-8 8-3-14 7-8-3 7-8-3 8-3-13 0-10-8



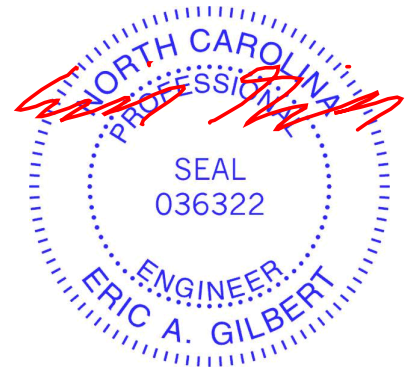
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.15	2-14	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.26	2-14	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.04	8	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.05	2-14	>999	240		Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-4 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	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=298(LC 11)
Max Uplift 2=132(LC 12), 8=132(LC 13)
Max Grav 2=1666(LC 19), 8=1666(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2220/466, 3-5=2089/574, 5-7=2089/574, 7-8=2220/466
BOT CHORD 2-14=249/1950, 10-14=7/1279, 8-10=233/1749
WEBS 5-10=222/1109, 7-10=-475/358, 5-14=222/1109, 3-14=-475/358

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 16-0-0, Exterior(2R) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-8-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2 and 132 lb uplift at joint 8.



June 4, 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	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	A2	HIP	1	1	173920640
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:aDWe9B_?OPf4LyIdD8dOtsyuGQ3-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8 8-3-14 13-6-0 18-6-0 23-8-2 32-0-0 32-10-8
0-10-8 8-3-14 5-2-2 5-0-0 5-2-2 8-3-14 0-10-8

Scale: 3/16"=1'

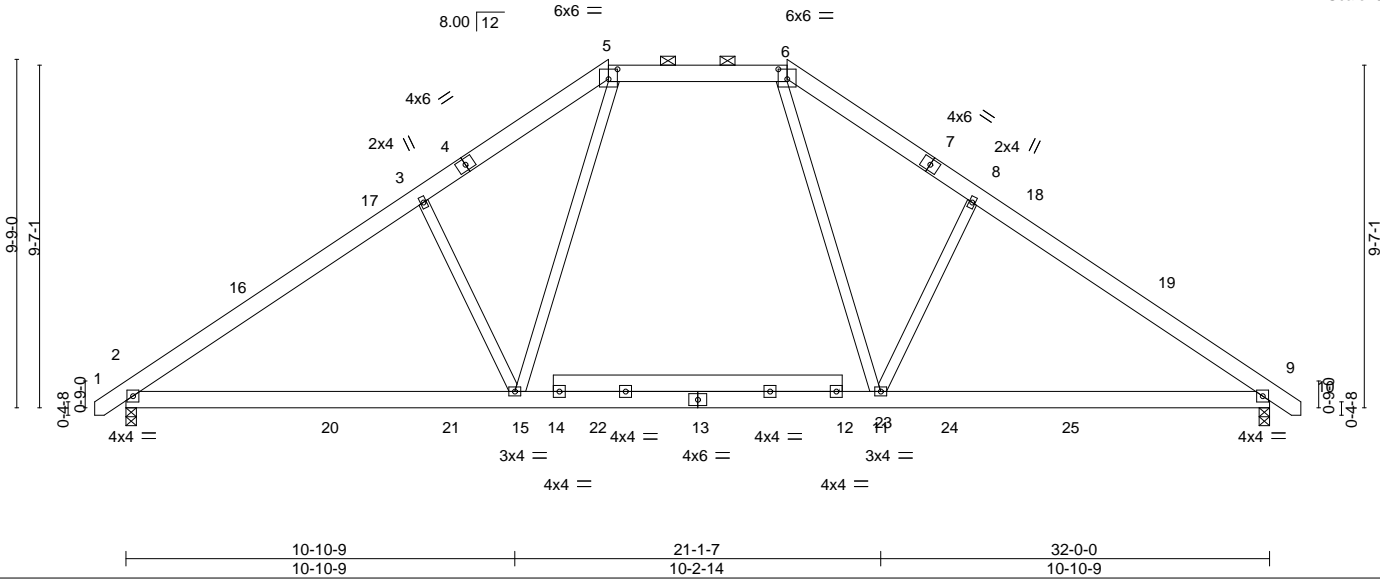


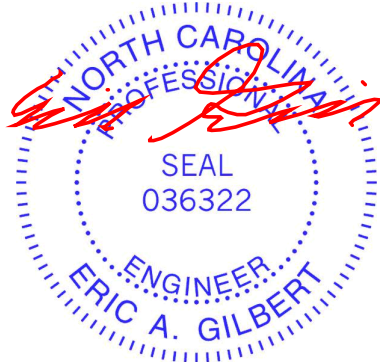
Plate Offsets (X,Y)--		[5:0-3-0,0-3-5], [6:0-3-0,0-3-5]		10-10-9 10-10-9		21-1-7 10-2-14		32-0-0 10-10-9	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.22 9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.32 9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.15 2-15	>999	240	Weight: 232 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
12-14: 2x6 SP No.1	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-252(LC 10)
Max Uplift 2=-121(LC 12), 9=-121(LC 13)
Max Grav 2=1648(LC 19), 9=1648(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2176/382, 3-5=-2023/459, 5-6=-1369/399, 6-8=-2023/453, 8-9=-2176/390
BOT CHORD 2-15=-243/1867, 11-15=-80/1417, 9-11=-174/1717
WEBS 3-15=-435/306, 5-15=-131/988, 6-11=-134/989, 8-11=-435/309

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 13-6-0, Exterior(2E) 13-6-0 to 18-6-0, Exterior(2R) 18-6-0 to 24-8-11, Interior(1) 24-8-11 to 32-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 121 lb uplift at joint 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

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ENGINEERING BY
TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	A2A	HIP	1	1	173920641
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-10-8 8-3-14 13-6-0 18-6-0 23-8-2 32-0-0

0-10-8 8-3-14 5-2-2 5-0-0 5-2-2 8-3-14

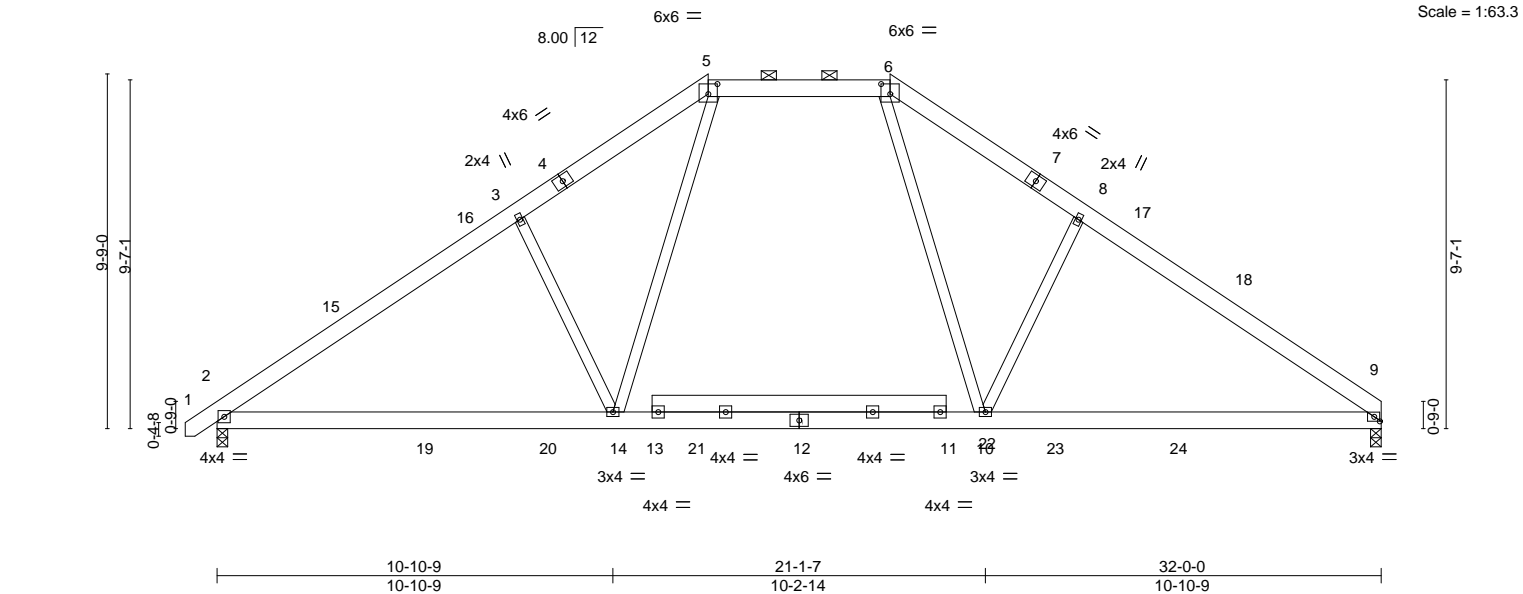


Plate Offsets (X,Y)--		[5:0-3-0,0-3-5], [6:0-3-0,0-3-5], [9:0-1-13,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37
TCDL 10.0	Lumber DOL	1.15	BC 0.65
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.22	9-10	>999
Vert(CT)	-0.33	9-10	>999
Horz(CT)	0.04	9	n/a
Wind(LL)	0.15	2-14	>999
PLATES	GRIP		
MT20	244/190		
Weight: 230 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
11-13: 2x6 SP No.1	

REACTIONS.	(size) 9=0-3-8, 2=0-3-8
Max Horz	2=250(LC 9)
Max Uplift	9=106(LC 13), 2=121(LC 12)
Max Grav	9=1597(LC 20), 2=1649(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2177/387, 3-5=-2024/464, 5-6=-1370/403, 6-8=-2026/465, 8-9=-2179/399
BOT CHORD	2-14=-257/1865, 10-14=-94/1414, 9-10=-195/1719
WEBS	3-14=-434/305, 5-14=-132/988, 6-10=-135/992, 8-10=-437/313

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 13-6-0, Exterior(2E) 13-6-0 to 18-6-0, Exterior(2R) 18-6-0 to 24-8-11, Interior(1) 24-8-11 to 31-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 9 and 121 lb uplift at joint 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

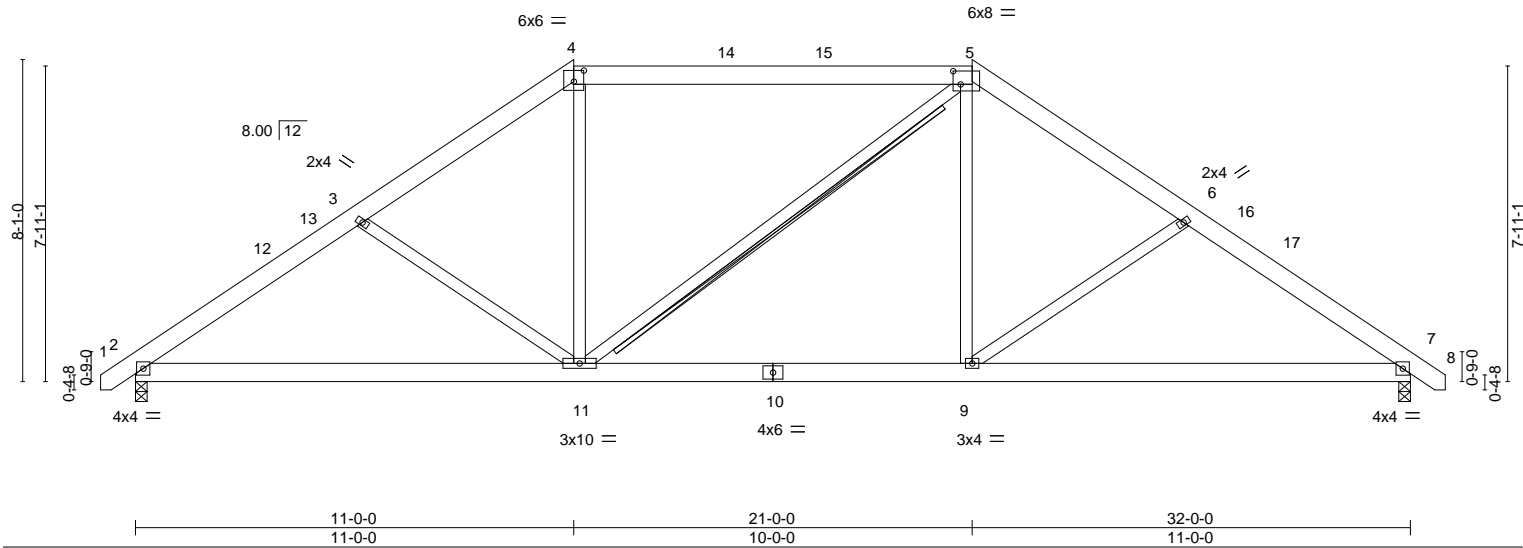


June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	A3	HIP	2	1	173920642
Job Reference (optional)					

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ID:aDWe9B_?OPf4LyldD8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
-0-10-8 5-8-6 11-0-0 21-0-0 26-3-11 32-0-0 32-10-8
0-10-8 5-8-6 5-3-11 10-0-0 5-3-11 5-8-5 0-10-8

Scale = 1:57.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.10 9-11 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.21 7-9 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.04 7 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.03 11 >999 240				
								Weight: 223 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-3-9 oc purlins, except 2-0-0 oc purlins (5-5-11 max.): 4-5.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	T-Brace: 2x4 SPF No.2 - 5-11
			Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
			Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-207(LC 10)
Max Uplift 2=-107(LC 12), 7=-107(LC 13)
Max Grav 2=1457(LC 19), 7=1480(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1986/437, 3-4=-1789/395, 4-5=-1451/406, 5-6=-1831/395, 6-7=-2026/437
BOT CHORD 2-11=-315/1670, 9-11=-101/1487, 7-9=-275/1602
WEBS 3-11=-277/219, 4-11=0/573, 5-9=0/660, 6-9=-275/219

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-0-0, Exterior(2R) 11-0-0 to 17-2-11, Interior(1) 17-2-11 to 21-0-0, Exterior(2R) 21-0-0 to 27-2-11, Interior(1) 27-2-11 to 32-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2 and 107 lb uplift at joint 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4,2025

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Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:40 2025 Page 1
 ID:aDWe9B_uOPf4LylDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?#
 -0-10-8 8-6-0 16-0-0 23-6-0 32-0-0 32-10-8
 0-10-8 8-6-0 7-6-0 7-6-0 8-6-0 0-10-8

The diagram illustrates a roof truss system with the following components and dimensions:

- Roof Slopes:** The roof consists of two main slopes, each with a vertical rise of 6'-5" and a horizontal run of 6'-3". The total horizontal span is 12'-6".
- Truss Members:**
 - Top Chords:** Labeled 11 and 21.
 - Bottom Chords:** Labeled 23 and 38.
 - Vertical Members:** Labeled 12, 13, 20, and 22.
 - Diagonal Members:** Labeled 14, 15, 16, 17, 18, and 19.
- Supports and Connections:**
 - Left Support:** Labeled 1, 2, and 3. It features a 4x4 post and a 5x5 plate.
 - Center Support:** Labeled 4, 5, 6, 7, 8, 9, and 10. It features an 8x8 post and a 3x4 plate.
 - Right Support:** Labeled 11, 12, and 13. It features a 4x4 post and a 5x5 plate.
- Dimensions:**
 - Horizontal Dimensions:** 8'-6" (span), 16'-0" (span), 23'-6" (span), and 32'-0" (span).
 - Vertical Dimensions:** 6'-5" (rise), 6'-3" (run), 0'-4" (height), and 0'-9" (height).

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (6-0-0 max.): 3-5.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 770 lb uplift at joint 2 and 770 lb uplift at joint 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 114 lb up at 2-6-12, 151 lb down and 106 lb up at 4-6-12, 150 lb down and 125 lb up at 6-6-12, 178 lb down and 189 lb up at 8-6-0, 183 lb down and 185 lb up at 10-6-12, 183 lb down and 185 lb up at 12-6-12, 183 lb down and 185 lb up at 14-6-12, 183 lb down and 185 lb up at 16-0-0, 183 lb down and 185 lb up at 17-5-4, 183 lb down and 185 lb up at 19-5-4, 183 lb down and 185 lb up at 21-5-4, 178 lb down and 189 lb up at 23-6-0, 150 lb down and 125 lb up at 25-5-4, and 151 lb down and 106 lb up at 27-5-4, and 116 lb down and 114 lb up at 29-5-4 on top chord, and 118 lb down and 118 lb down at 2-6-12, 82 lb down at 4-6-12, 83 lb down at 6-6-12, 88 lb down at 8-6-12, 88 lb down at 10-6-12, 88 lb down at 12-6-12, 88 lb down at 14-6-12, 88 lb down at 16-0-0, 88 lb down at 17-5-4, 88 lb down at 19-5-4, 88 lb down at 21-5-4, 88 lb down at 23-5-4, 83 lb down at 25-5-4, and 82 lb down at 27-5-4, and 118 lb down at 29-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Continued on page 2

LOAD CASE(S) Standard

LOAD CASE(S) Standard

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)

TRENCO ENGINEERING BY
A MI Tek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	A4GDR	HIP GIRDER	2	2	173920643

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:40 2025 Page 2
ID:aDWe9B_?OPf4LylDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-128(F) 5=-128(F) 10=-44(F) 9=-44(F) 8=-44(F) 4=-128(F) 11=-76(F) 12=-111(F) 13=-110(F) 14=-128(F) 15=-128(F) 16=-128(F) 17=-128(F) 18=-128(F)
19=-128(F) 20=-110(F) 21=-111(F) 22=-76(F) 23=-97(F) 24=-61(F) 26=-62(F) 27=-44(F) 28=-44(F) 30=-44(F) 31=-44(F) 33=-44(F) 34=-44(F) 35=-62(F) 37=-61(F)
38=-97(F)



June 4,2025

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

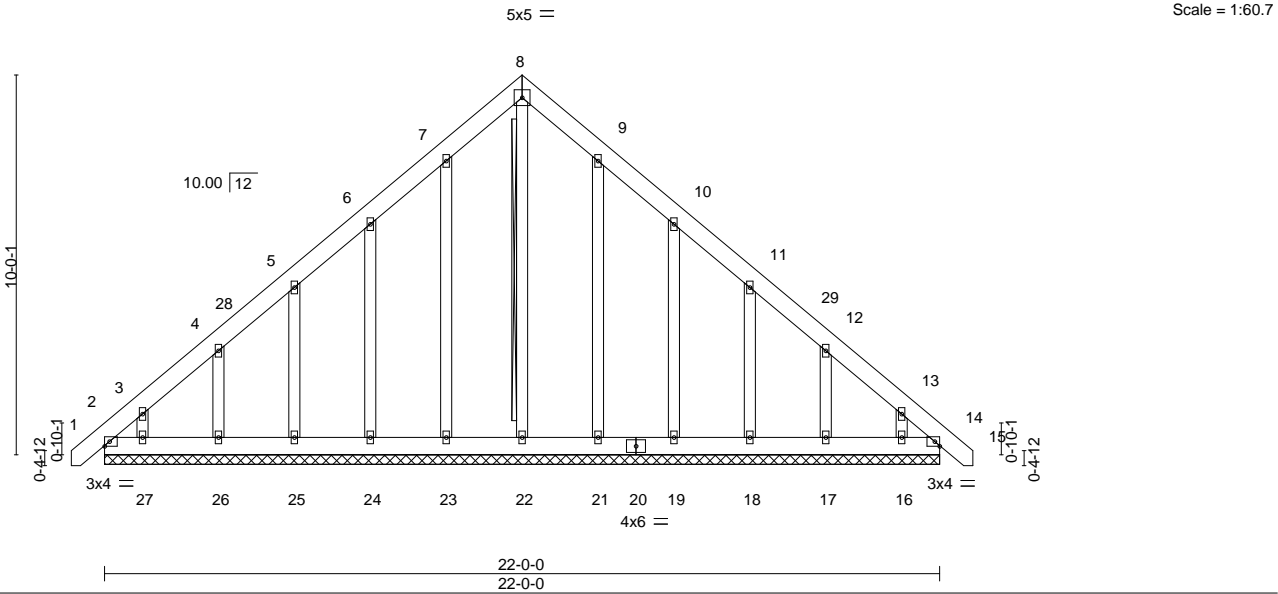
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH1 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)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	B1GE	GABLE	1	1	173920644
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:40 2025 Page 1
ID:aDWe9B_?OPf4LyldD8dOtsyuGQ3-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f
0-10-8 11-0-0 22-0-0 22-10-8 0-10-8
0-10-8 11-0-0 11-0-0 22-0-0 0-10-8

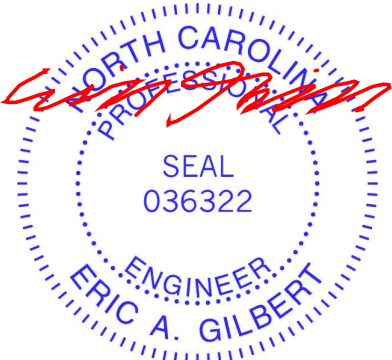


LOADING (psf)	SPACING-	CSI.	DEFL.	VERT.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc)	l/defl	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 14 n/r 120			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) 0.00 14 n/r 120			
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 14 n/a n/a			
	Code IRC2021/TPI2014				Weight: 199 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 T-Brace: 2x4 SPF No.2 - 8-22
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS.	All bearings 22-0-0.
(lb) - Max Horz 2=327(LC 11)	
Max Uplift	All uplift 100 lb or less at joint(s) 14, 23, 21 except 2=157(LC 10), 24=142(LC 12), 25=127(LC 12), 26=137(LC 12), 27=185(LC 12), 19=145(LC 13), 18=127(LC 13), 17=136(LC 13), 16=172(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 14, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except 2=291(LC 12)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-434/274, 3-4=-295/216, 7-8=-164/271, 8-9=-164/271, 13-14=-370/179
BOT CHORD	2-27=-130/290, 26-27=-130/290, 25-26=-130/290, 24-25=-130/290, 23-24=-130/290, 22-23=-130/290, 21-22=-130/290, 19-21=-130/290, 18-19=-130/290, 17-18=-130/290, 16-17=-130/290, 14-16=-130/290

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-1 to 3-7-12, Exterior(2N) 3-7-12 to 11-0-0, Corner(3R) 11-0-0 to 15-4-13, Exterior(2N) 15-4-13 to 22-9-1 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) 14, 23, 21 except (jt=lb) 2=157, 24=142, 25=127, 26=137, 27=185, 19=145, 18=127, 17=136, 16=172.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4, 2025

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:41 2025 Page 1
 ID:aDWe9B_?OP4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f
 6-6-0 11-0-0 15-6-0 22-0-0 22-10-8
 6-6-0 4-6-0 6-6-0 6-6-0 0-10-8



LUMBER- TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 WEDGE Left: 2x4 SP No.3 , Right: 2x4 SP No.3		BRACING- TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

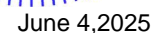
TOP CHORD 1-2=-1425/249, 2-3=-867/329, 3-4=-102/399, 4-5=-104/400, 5-6=-865/326,
6-7=-1434/254

BOT CHORD 1-11=-23/965, 9-11=-23/965, 7-9=-23/965

WEBS 2-11=0/576, 6-9=0/587, 3-5=-1360/529

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-0-0, Exterior(2R) 11-0-0 to 15-7-12, Interior(1) 15-7-12 to 22-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

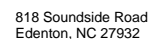


WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TR-17-0169, 1/12/2023 BEFORE USE.

Design valid for use only with MiTeTe® 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 Protection Association (www.sbcacomponents.com)

818 Soundside Road
Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:42 2025 Page 1
 ID:aDWe9B?OPf4LylDd8dOtsyGQ3-RfC?PsB70Hq3NSGpqnL8w3ulTXbGKWRCDoi7J4zJC?f
 0-10-8 6-6-0 11-0-0 15-6-0 22-0-0
 0-10-8 6-6-0 4-6-0 4-6-0 6-6-0



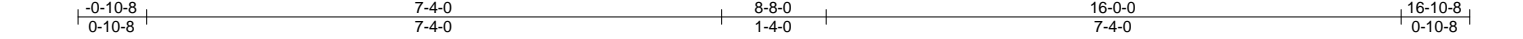
Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	G1	HIP	1	1	173920648

Comtech, Inc., Fayetteville, NC - 28314,

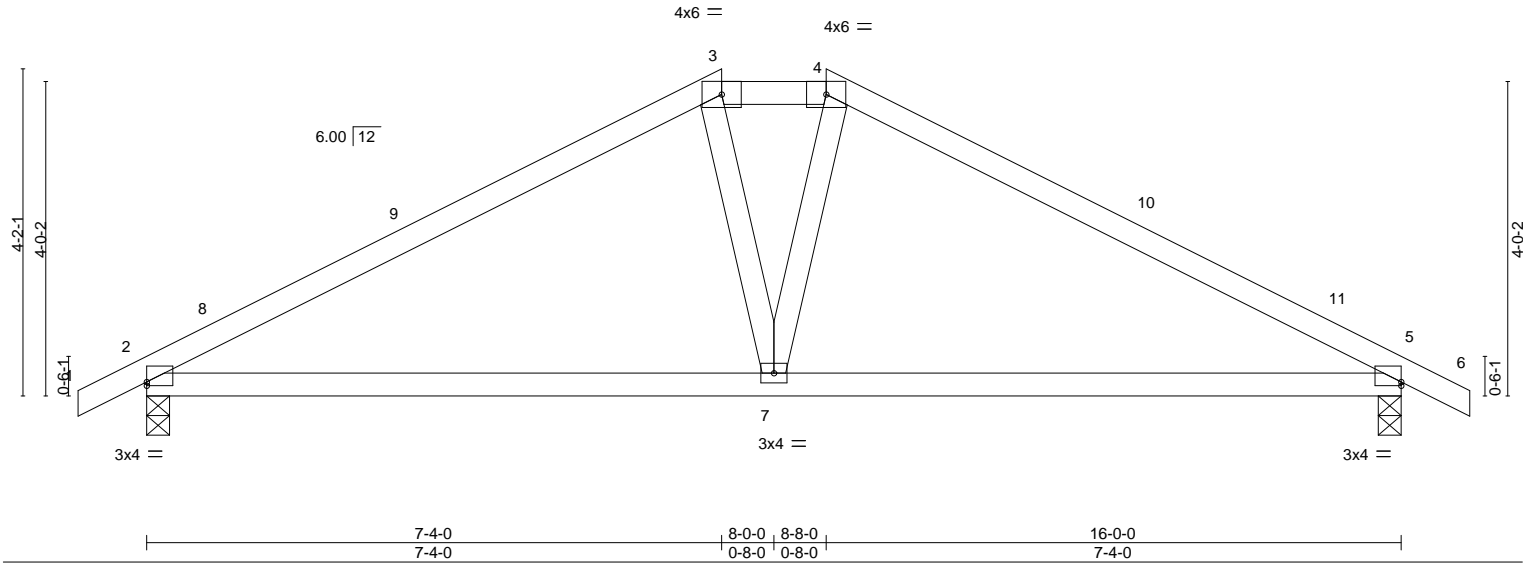
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:42 2025 Page 1

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Job Reference (optional)



Scale = 1:29.4



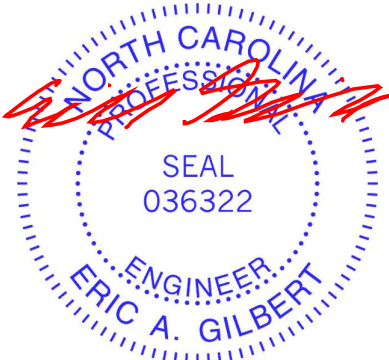
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.08 5-7 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.17 5-7 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02 5 n/a n/a				
BCDL	10.0	Code IRC2021/TP12014		Matrix-S		Wind(LL)	0.06 2-7 >999 240	Weight: 64 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-0-8 oc purlins, except
BOT CHORD	2x4 SP No.1		2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(size)	2=0-3-8, 5=0-3-8
Max Horz	2=58(LC 11)
Max Uplift	2=-77(LC 12), 5=-77(LC 13)
Max Grav	2=690(LC 1), 5=690(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-899/338, 3-4=-729/372, 4-5=-899/338
BOT CHORD	2-7=-173/709, 5-7=-159/709

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-4-0, Exterior(2E) 7-4-0 to 8-8-0, Exterior(2R) 8-8-0 to 14-10-11, Interior(1) 14-10-11 to 16-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



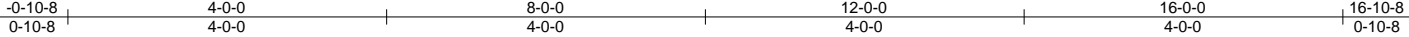
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	G2GDR	HIP GIRDER	1	1	173920649
Job Reference (optional)					

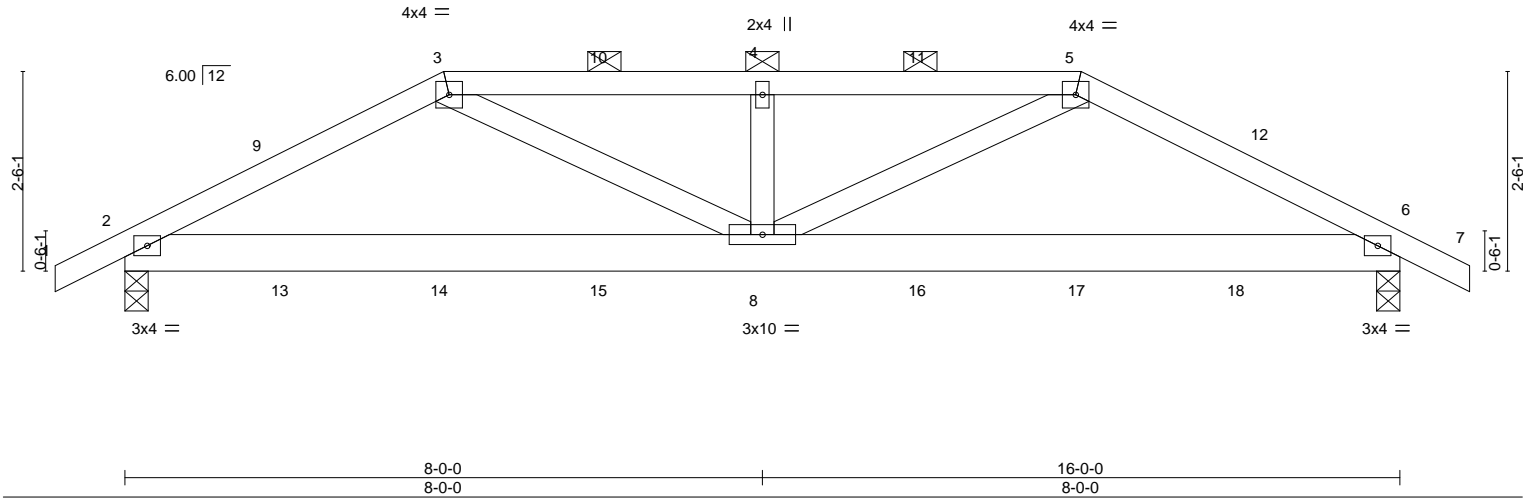
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:43 2025 Page 1

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Scale = 1:28.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.03	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.07	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.03	8	>999	240	Weight: 81 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (5-6-11 max.): 3-5.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=36(LC 28)
Max Uplift 2=-157(LC 8), 6=-157(LC 9)
Max Grav 2=693(LC 1), 6=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-993/306, 3-4=-1232/335, 4-5=-1232/335, 5-6=-993/306
BOT CHORD 2-8=-252/826, 6-8=-231/822
WEBS 3-8=-80/491, 4-8=-258/177, 5-8=-80/491

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=157, 6=157.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 32 lb down and 36 lb up at 2-0-0, 70 lb down and 58 lb up at 4-0-7, 76 lb down and 58 lb up at 6-0-0, 76 lb down and 58 lb up at 8-0-0, 76 lb down and 58 lb up at 10-0-0, and 70 lb down and 58 lb up at 11-11-9, and 32 lb down and 36 lb up at 14-0-0 on top chord, and 9 lb down at 2-0-0, 8 lb down at 4-0-0, 8 lb down at 6-0-0, 8 lb down at 8-0-0, 8 lb down at 10-0-0, and 8 lb down at 12-0-0, and 9 lb down at 14-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

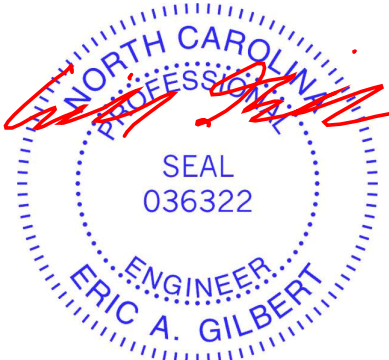
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 13=-3(F) 18=-3(F)



June 4,2025

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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

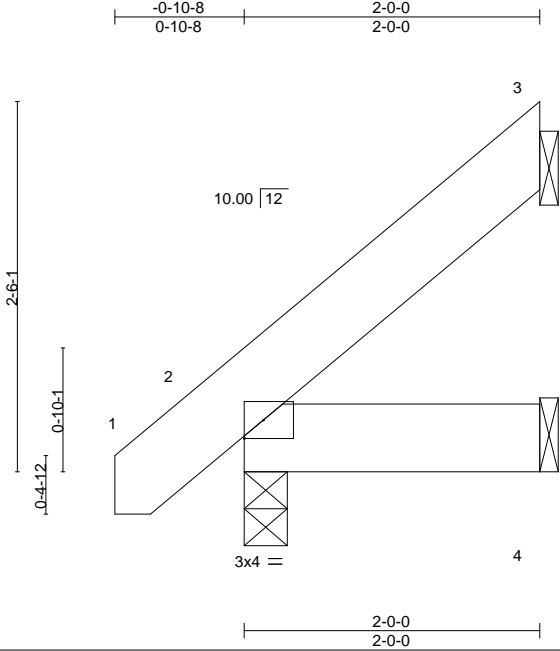
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J02	JACK-OPEN	5	1	173920650

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:43 2025 Page 1

ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:15.6

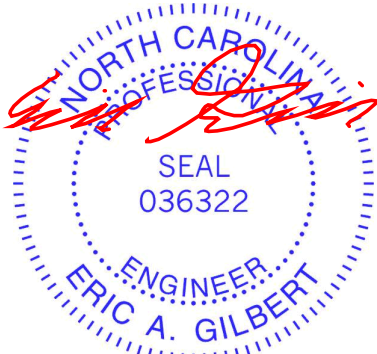
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	Weight: 14 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=81(LC 12)
Max Uplift 3=56(LC 12)
Max Grav 3=64(LC 19), 2=135(LC 1), 4=39(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



June 4,2025

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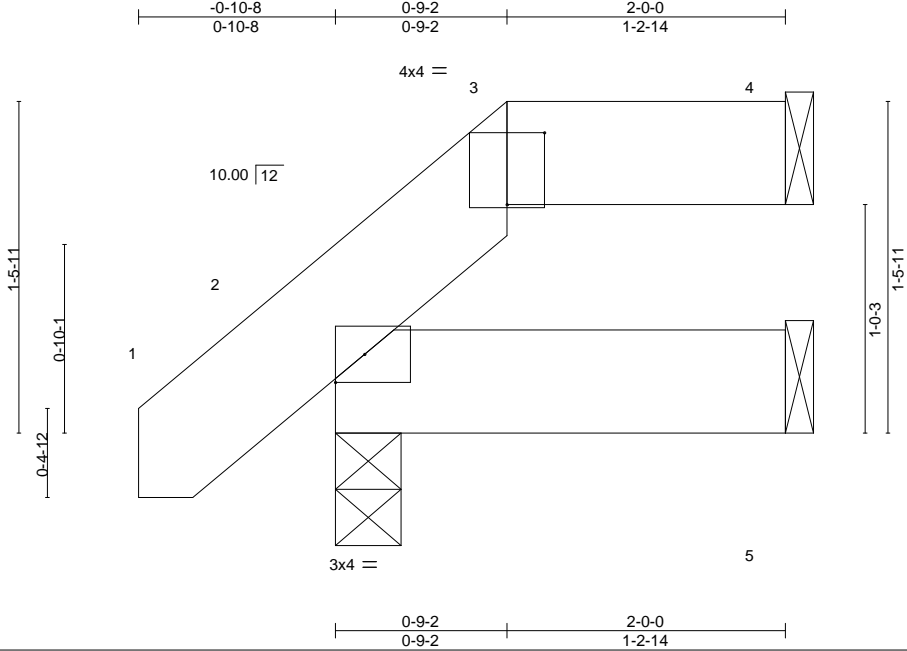
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J02A	JACK-OPEN	2	1	173920651
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:44 2025 Page 1

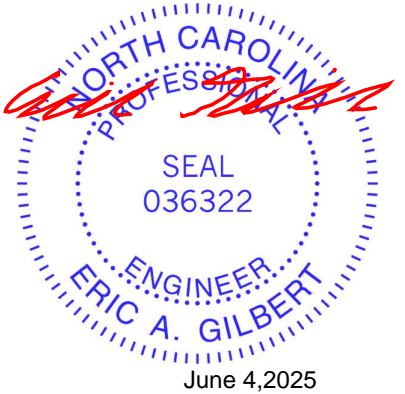
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00 2 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00 2 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 4 n/a n/a				
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	-0.00 2 >999 240	Weight: 13 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD	2x6 SP No.1	BOT CHORD	
REACTIONS.	(size) 4=Mechanical, 2=0-3-8, 5=Mechanical		
	Max Horz 2=46(LC 12)		
	Max Uplift 4=-22(LC 9), 2=-14(LC 12)		
	Max Grav 4=49(LC 1), 2=135(LC 1), 5=36(LC 3)		
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=6.0psf; h=25ft; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 4, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

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ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J03	JACK-OPEN	8	1	173920652
Job Reference (optional)					

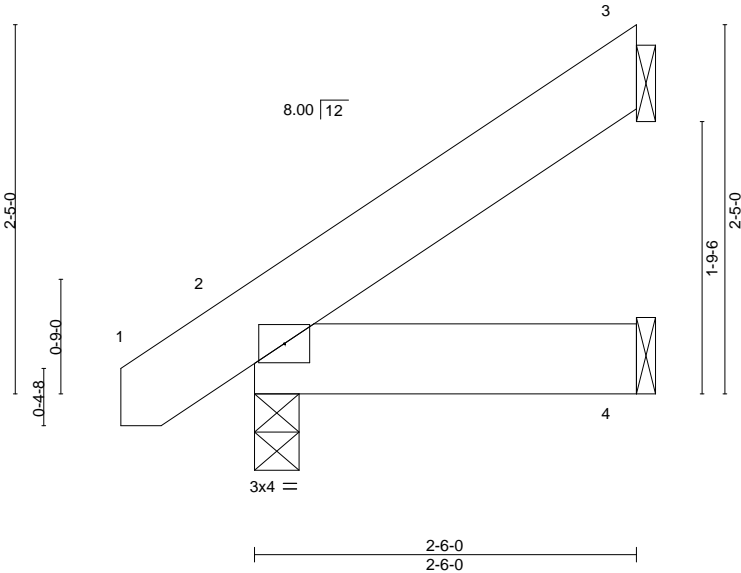
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:44 2025 Page 1

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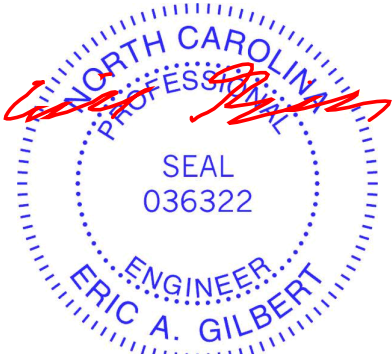
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.04	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 16 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=75(LC 12)
Max Uplift 3=-52(LC 12), 2=-5(LC 12)
Max Grav 3=71(LC 19), 2=155(LC 1), 4=46(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



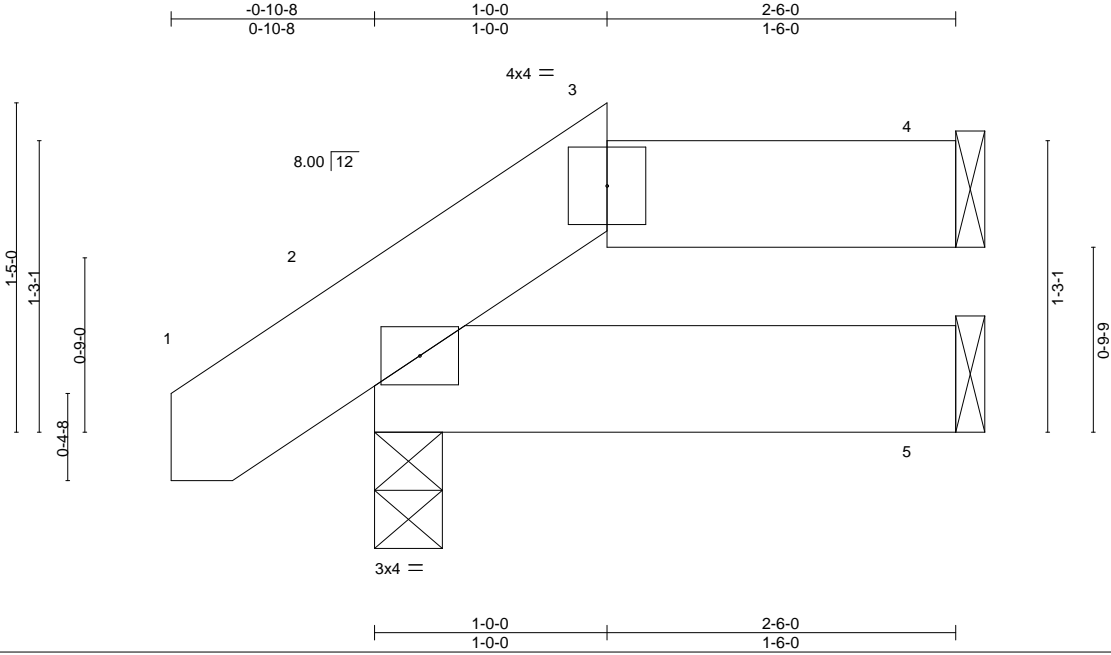
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J03A	JACK-OPEN	4	1	173920653

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) -0.00 2 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) -0.00 2 >999 240	Weight: 15 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=37(LC 12)
Max Uplift 4=-23(LC 9), 2=-21(LC 12)
Max Grav 4=58(LC 1), 2=155(LC 1), 5=42(LC 3)

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=6.0psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

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ENGINEERING BY

TRENCO

A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J07	JACK-OPEN	18	1	173920654

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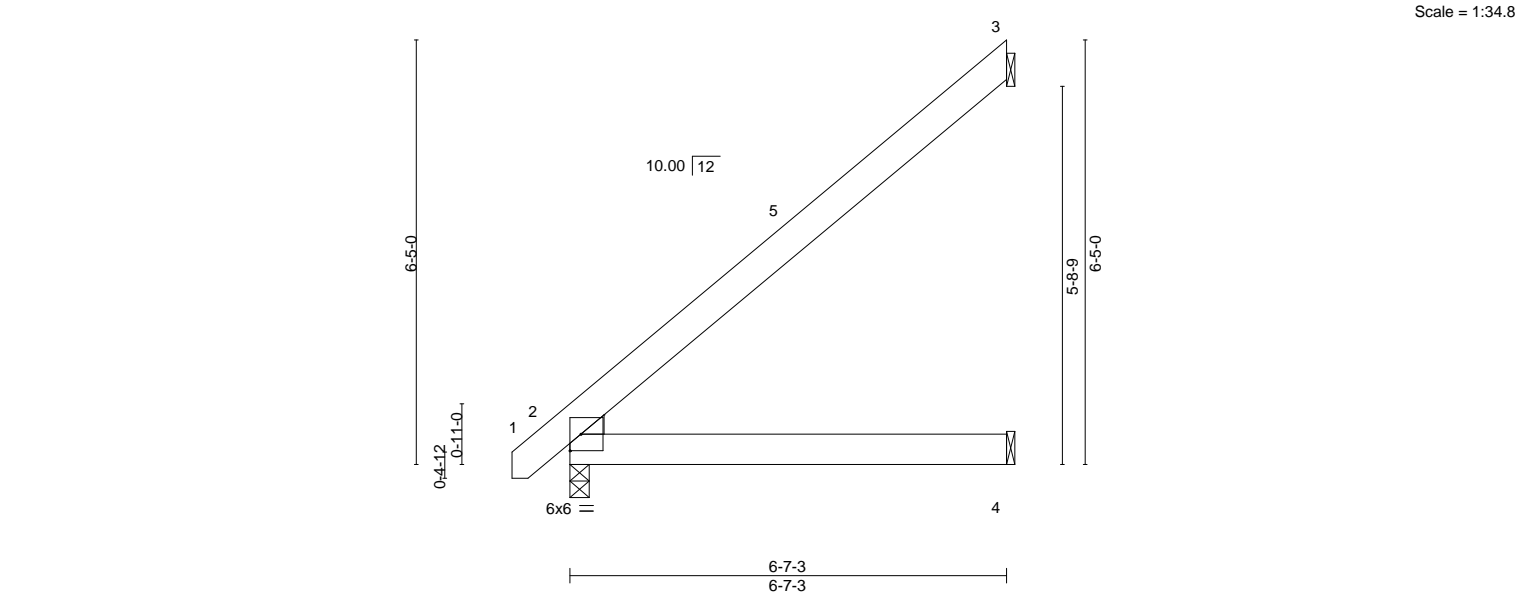
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:45 2025 Page 1

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6-7-3

6-7-3

Job Reference (optional)



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 0.46	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 39 lb	FT = 20%

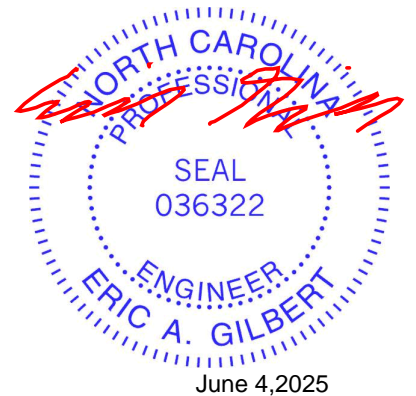
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=219(LC 12)
Max Uplift 3=173(LC 12)
Max Grav 3=228(LC 19), 2=313(LC 1), 4=128(LC 3)

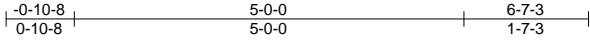
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-348/163

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 6-6-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=173.



Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J07A	HALF HIP	4	1	173920655
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:45 2025 Page 1
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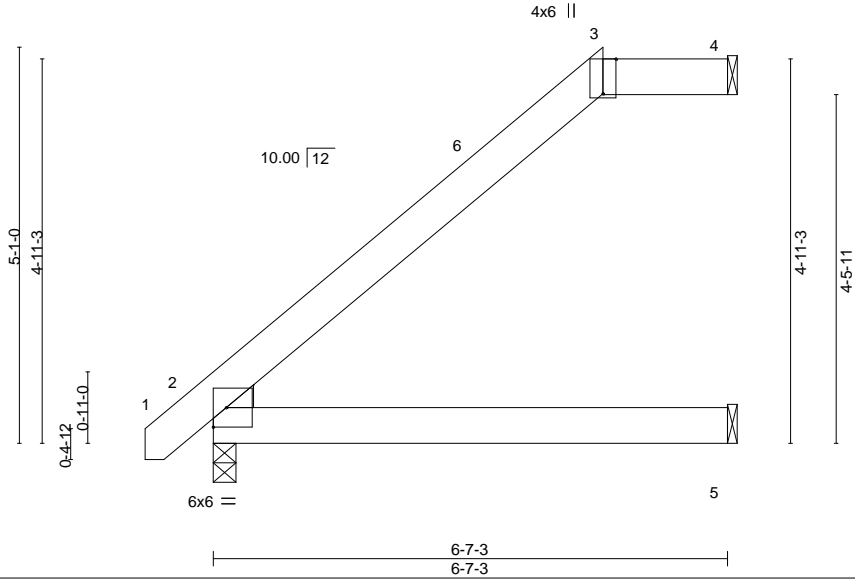


Plate Offsets (X,Y)--		[3:0-5-6,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.02	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Horz(CT)	-0.04	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		-0.06	4	n/a	n/a		
BCDL 10.0	Code	IRC2021/TP12014	Matrix-P	Wind(LL)	0.04	2-5	>999	240	Weight: 38 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
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEDGE	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
Left: 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=169(LC 12)
Max Uplift 4=89(LC 12)
Max Grav 4=170(LC 1), 2=313(LC 1), 5=123(LC 3)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 5-0-0, Exterior(2E) 5-0-0 to 6-6-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 4.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	J07B	HALF HIP	4	1	173920656
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:46 2025 Page 1
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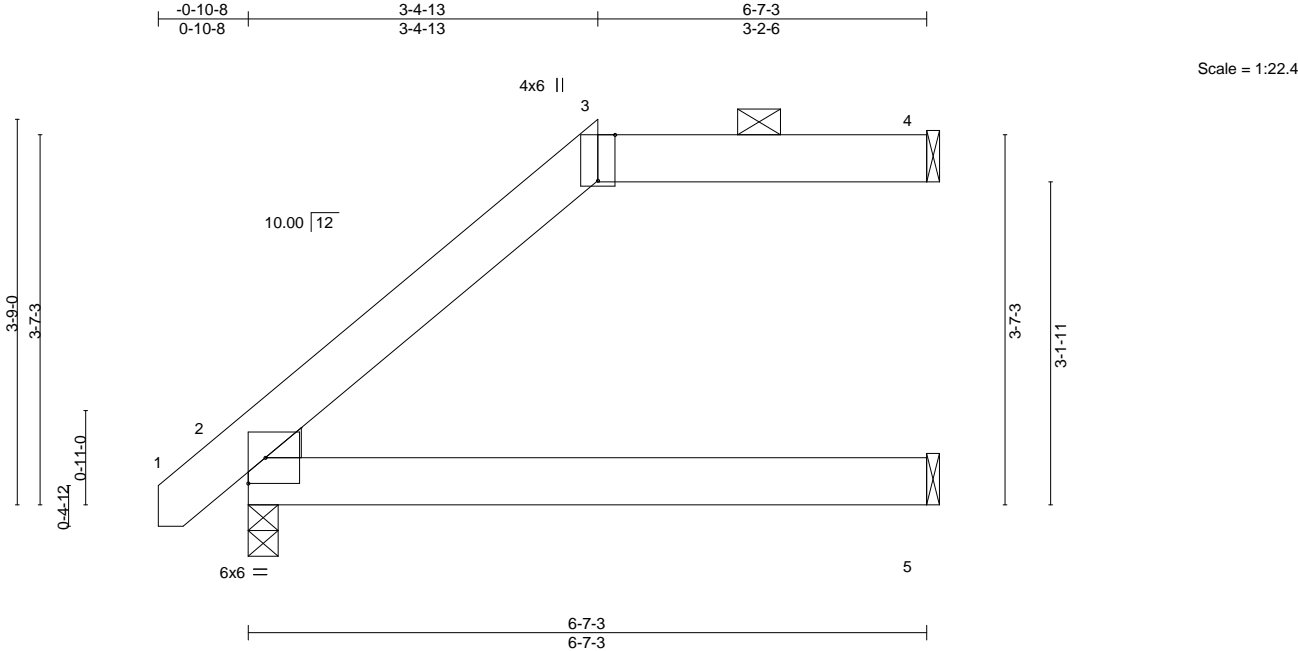


Plate Offsets (X,Y)--		[3:0-5-6,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21
TCDL 10.0	Lumber DOL	1.15	BC 0.20
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.02	2-5	>999
Vert(CT)	-0.04	2-5	>999
Horz(CT)	-0.07	4	n/a
Wind(LL)	0.03	2-5	>999
PLATES	GRIP		
MT20	244/190		
Weight: 37 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
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEDGE	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
Left: 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=121(LC 12)
Max Uplift 4=70(LC 9), 2=-17(LC 12)
Max Grav 4=171(LC 1), 2=313(LC 1), 5=122(LC 3)

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=6.0psf; h=25ft; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 4, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	LG1	GABLE	2	1	173920658
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:47 2025 Page 1
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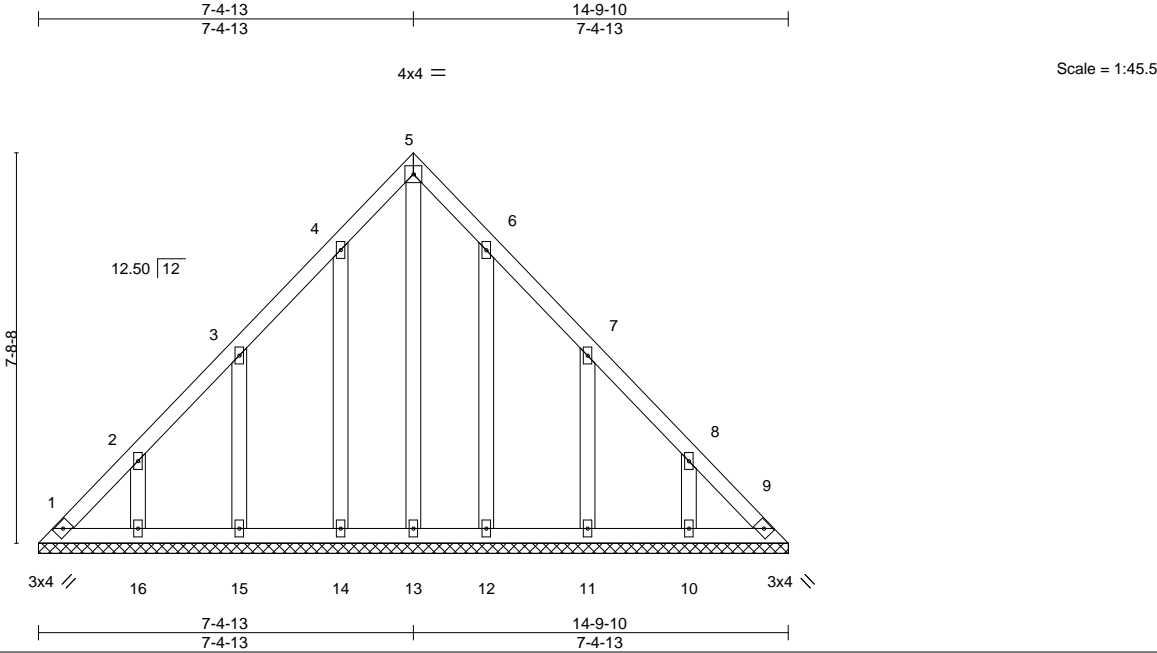


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(LL)	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Vert(CT)	n/a	999	
BCDL	10.0	Code IRC2021/TP12014		Matrix-S		Horz(CT)	0.00	9	n/a
								Weight: 95 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.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 14-9-10.
(lb) - Max Horz 1=199(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 12, 13 except 15=110(LC 12), 16=102(LC 12),
11=111(LC 13), 10=102(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11, 10, 13

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-2 to 4-8-15, Interior(1) 4-8-15 to 7-4-13, Exterior(2R) 7-4-13 to 11-9-10, Interior(1) 11-9-10 to 14-5-8 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 12, 13 except (jt=lb) 15=110, 16=102, 11=111, 10=102.



June 4,2025

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

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	LG2	GABLE	4	1	173920659

Comtech, Inc., Fayetteville, NC - 28314,

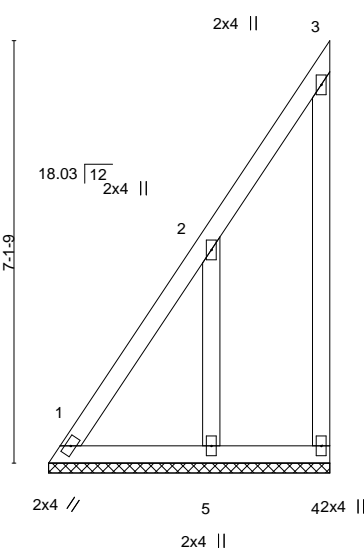
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:47 2025 Page 1

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4-8-15

4-8-15

Scale = 1:38.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 34 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD 2x4 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) 1=4-8-15, 4=4-8-15, 5=4-8-15
Max Horz 1=236(LC 12)
Max Uplift 1=-90(LC 10), 4=-58(LC 12), 5=-256(LC 12)
Max Grav 1=260(LC 12), 4=72(LC 19), 5=324(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-602/469
WEBS 2-5=-490/551

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=256.



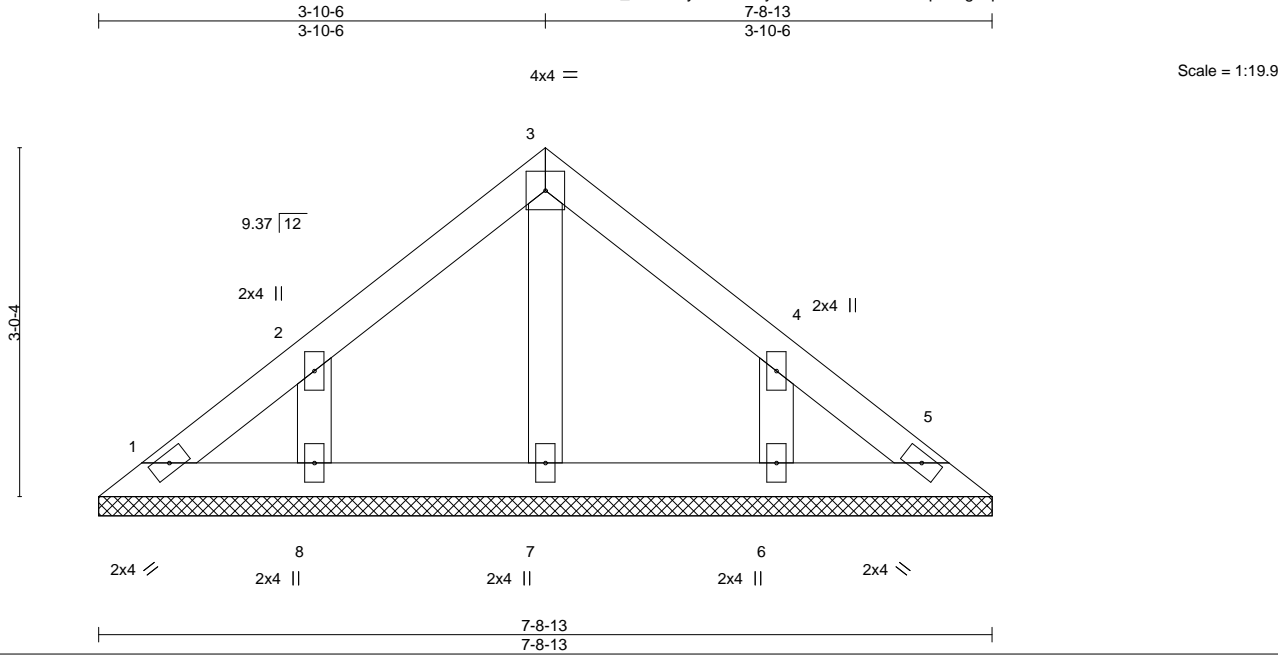
June 4,2025

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	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	LG3	GABLE	1	1	173920660

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:48 2025 Page 1
ID:aDWe9B_?OPf4LyldD8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	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 0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 31 lb	FT = 20%

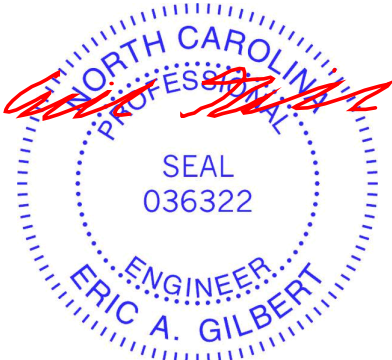
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 7-8-13.
(lb) - Max Horz 1=72(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



June 4,2025

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	M1	MONOPITCH	9	1	173920661

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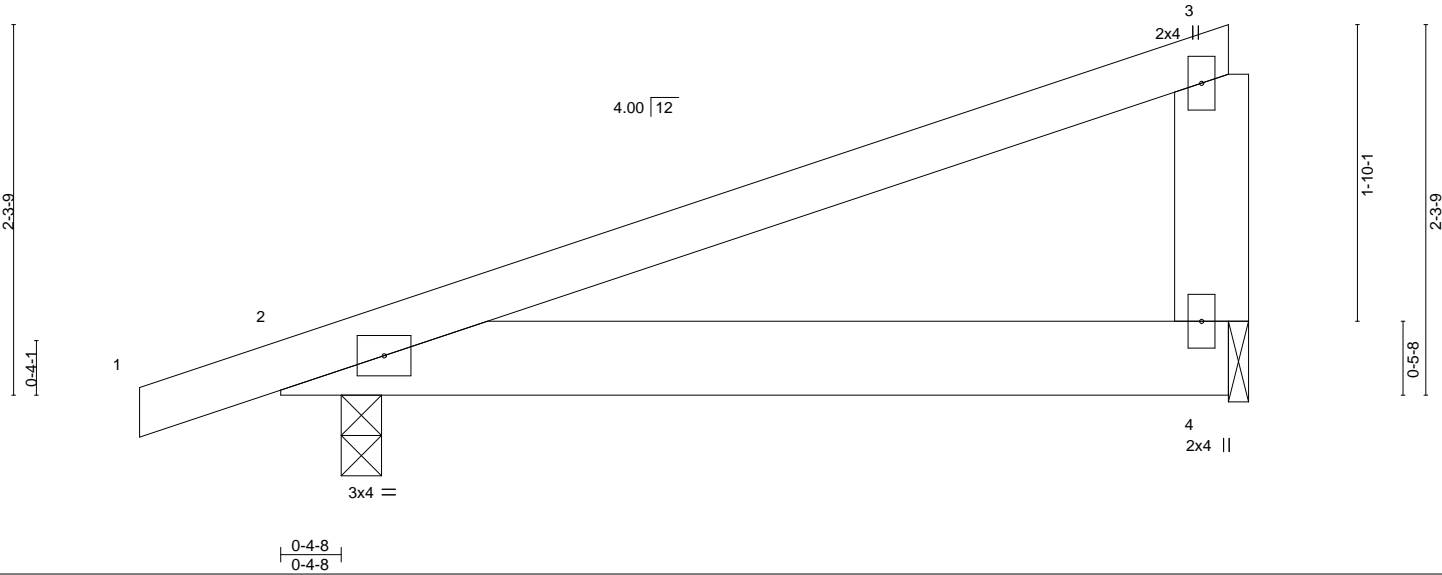
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:48 2025 Page 1

ID:aDW9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:14.3



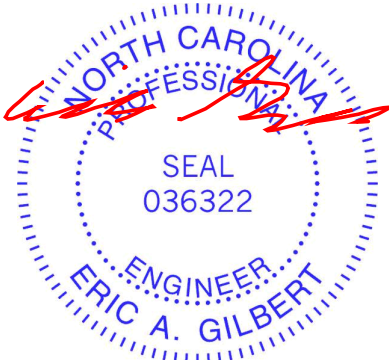
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.01	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.03	2-4	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P	Wind(LL) 0.05	2-4	>999	240		Weight: 28 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 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.
WEBS 2x6 SP No.1	

REACTIONS. (size) 4=0-1-8, 2=0-3-0
Max Horz 2=86(LC 8)
Max Uplift 4=112(LC 8), 2=-139(LC 8)
Max Grav 4=221(LC 1), 2=291(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=112, 2=139.

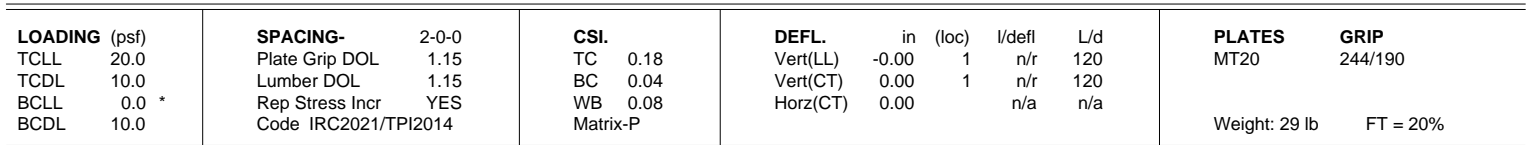


June 4,2025

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

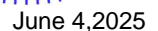
Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:48 2025 Page 1
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 0-10-8 6-0-0
 0-10-8 6-0-0



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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-9-4, Exterior(2N) 3-9-4 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=123.



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Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	P1	COMMON	5	1	173920663

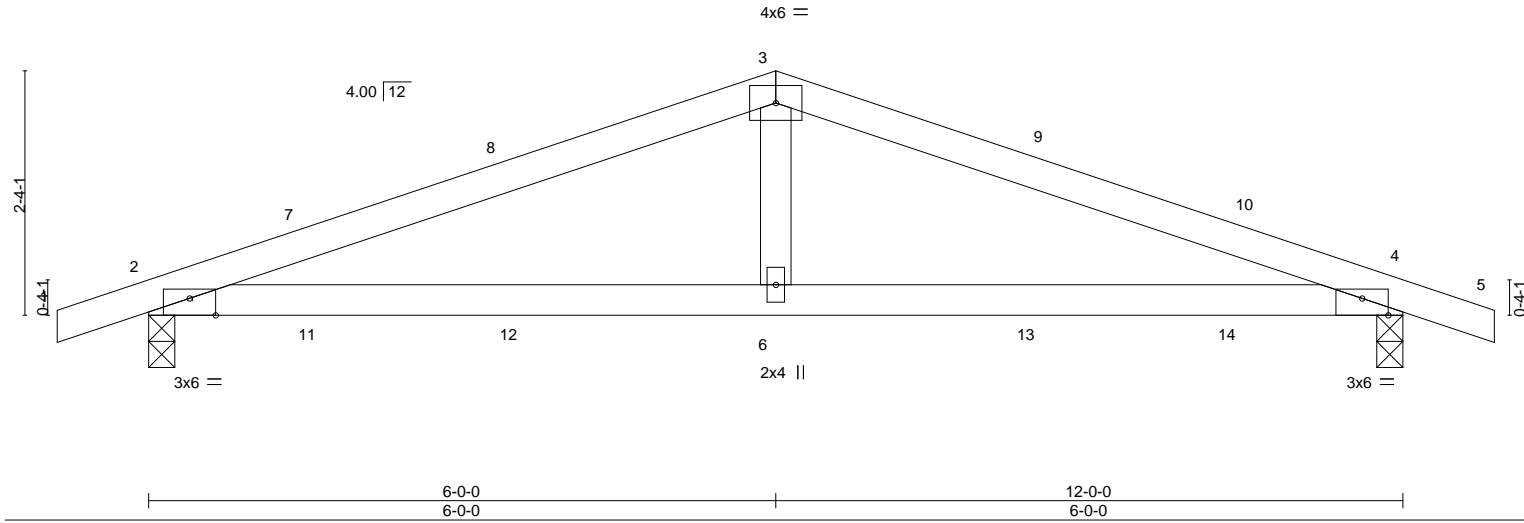
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:49 2025 Page 1

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Scale = 1:22.0



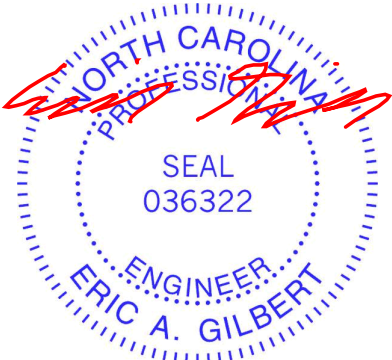
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.16	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.07				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.02				
BCDL	10.0	Code	IRC2021/TP12014	Matrix-S							
								Weight: 42 lb		FT = 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 4-7-6 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=31(LC 16)
Max Uplift 2=-246(LC 8), 4=-246(LC 9)
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=-866/1623, 3-4=-866/1623
BOT CHORD 2-6=-1434/765, 4-6=-1434/765
WEBS 3-6=-636/282

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-10-8 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 4=246.



June 4,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	P1GE	GABLE	1	1	173920664

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:49 2025 Page 1

ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Job Reference (optional)



Scale = 1:22.0

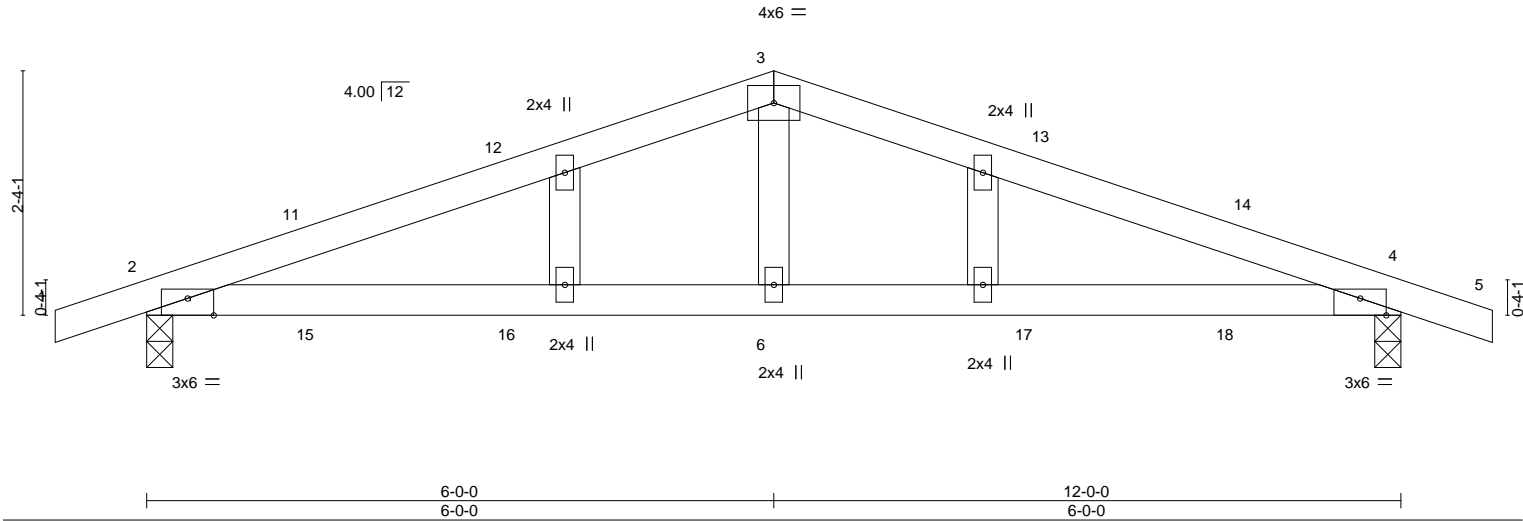


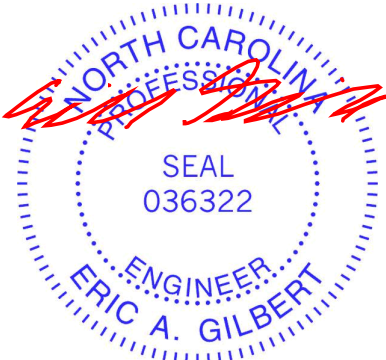
Plate Offsets (X,Y)--		[2:0-3-0,Edge], [4:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57
TCDL 10.0	Lumber DOL	1.15	BC 0.43
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.16 2-6 >892 240
			Vert(CT) -0.07 2-6 >999 240
			Horz(CT) -0.02 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 46 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 4-7-6 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=52(LC 12)
Max Uplift 2=-343(LC 8), 4=-343(LC 9)
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=-866/1623, 3-4=-866/1623
BOT CHORD 2-6=-1434/765, 4-6=-1434/765
WEBS 3-6=-636/282

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-10-8 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=343, 4=343.



June 4,2025

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VA1	GABLE	1	1	173920665

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:50 2025 Page 1
ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Job Reference (optional)

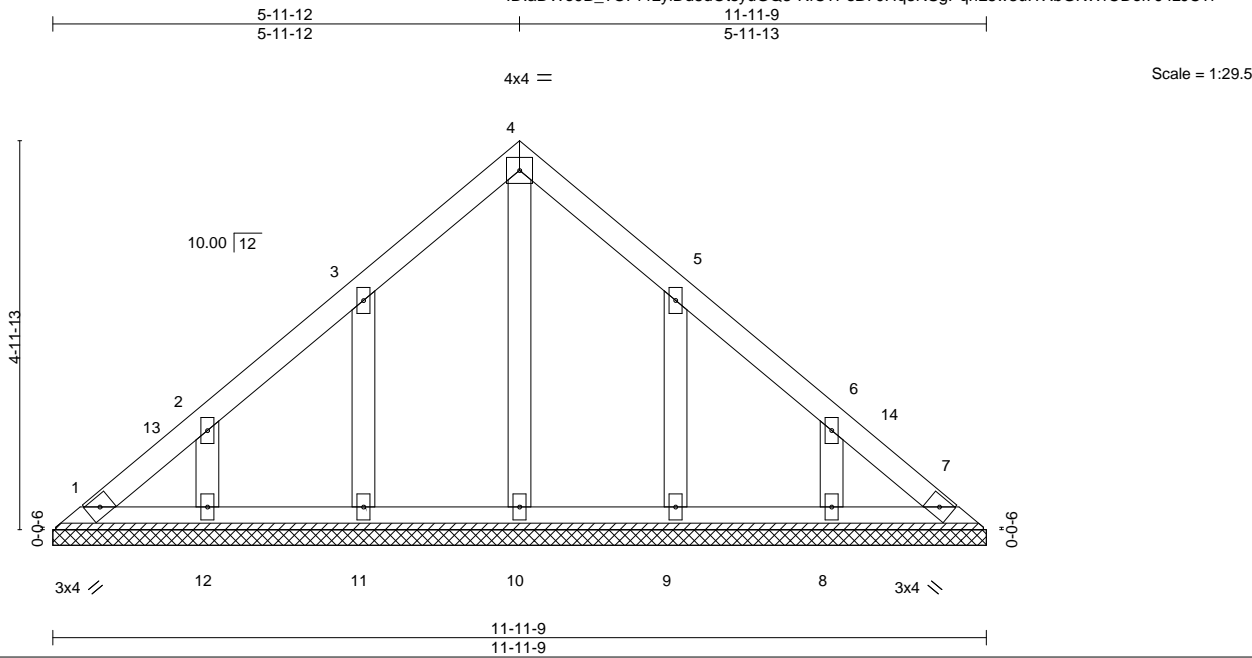


Plate Offsets (X,Y)--		[5:0-0-0,0-0-0], [6:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	IRC2021/TP12014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 57 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. All bearings 11-11-9.
(lb) - Max Horz 1=-155(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-136(LC 12), 12=-127(LC 12), 9=-135(LC 13), 8=-128(LC 13)
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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-11-12, Exterior(2R) 5-11-12 to 10-4-9, Interior(1) 10-4-9 to 11-6-12 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=136, 12=127, 9=135, 8=128.



June 4,2025

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

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VA2	VALLEY	1	1	173920666

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:50 2025 Page 1

ID:aDWe9B_?OPf4LyldD8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

4-4-9

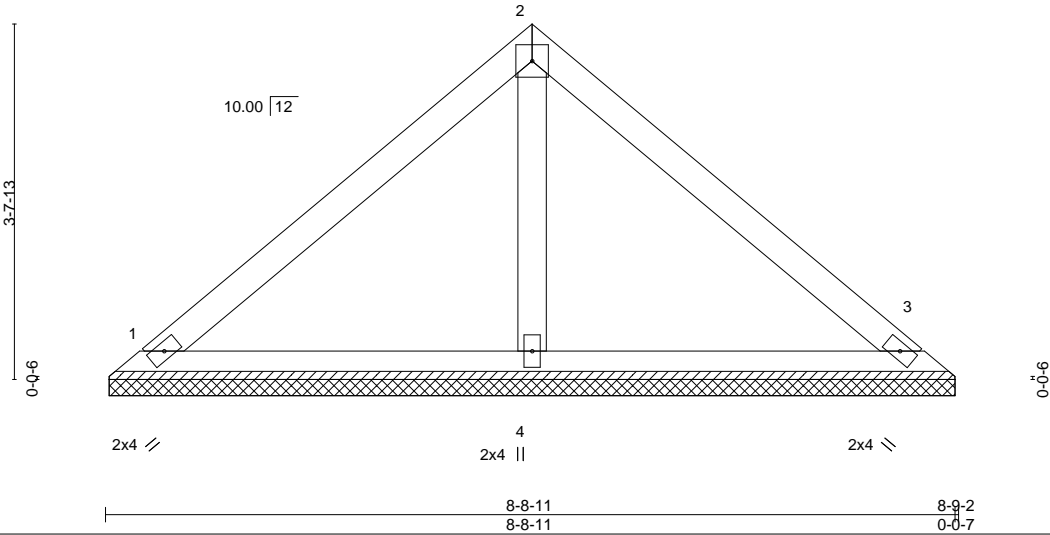
4-4-9

8-9-2

4-4-9

4x4 =

Scale = 1:23.7



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 33 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=8-8-4, 3=8-8-4, 4=8-8-4
 Max Horz 1=-88(LC 8)
 Max Uplift 1=-36(LC 13), 3=-45(LC 13)
 Max Grav 1=184(LC 1), 3=184(LC 1), 4=268(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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

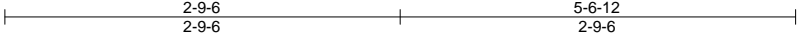


Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VA3	VALLEY	1	1	173920667

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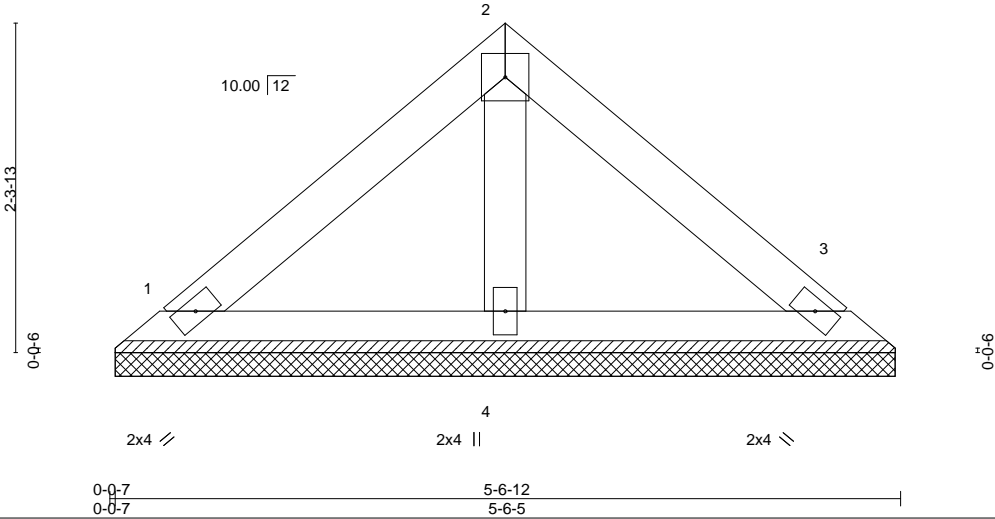
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:51 2025 Page 1

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4x4 =

Scale = 1:16.2



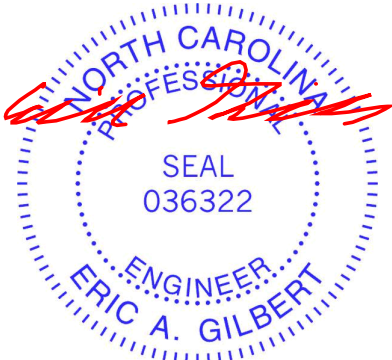
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-12 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=5-5-13, 3=5-5-13, 4=5-5-13
Max Horz 1=-53(LC 8)
Max Uplift 1=-22(LC 13), 3=-27(LC 13)
Max Grav 1=110(LC 1), 3=110(LC 1), 4=160(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=6.0psf; h=25ft; 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
 - 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.
 - Non Standard bearing condition. Review required.



June 4,2025

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

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VA4	VALLEY	1	1	173920668

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:51 2025 Page 1

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Job Reference (optional)

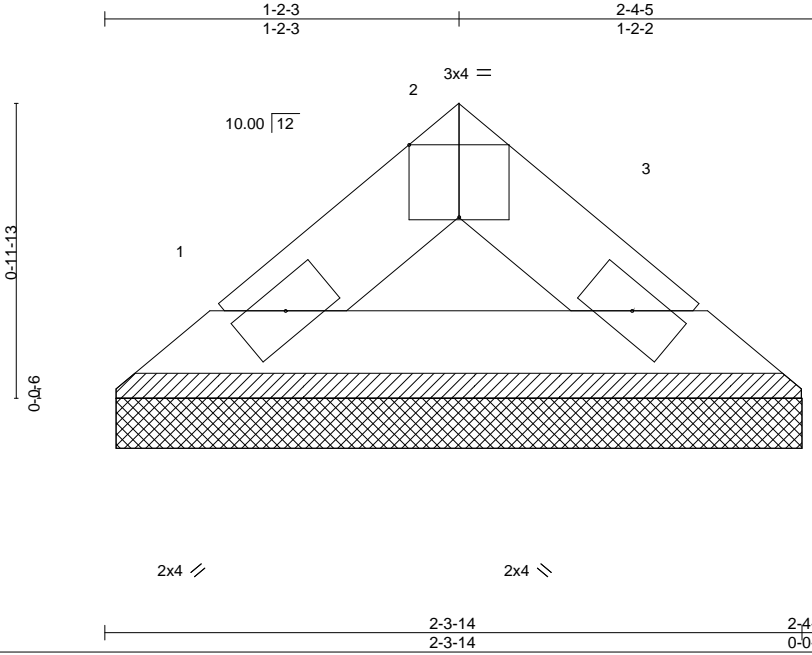


Plate Offsets (X,Y)-- [2:0-2:0,Edge]		2-3-14		2-4-5	
		2-3-14		0-0-7	
LOADING (psf)		SPACING-		CSI.	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02
TCDL	10.0	Lumber DOL	1.15	BC	0.02
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P	
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) n/a - n/a 999	
				Vert(CT) n/a - n/a 999	
				Horz(CT) 0.00 3 n/a n/a	
				PLATES	
				MT20	
				GRIP	
				244/190	
				Weight: 6 lb	
				FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-4-5 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-3-7, 3=2-3-7
Max Horz 1=17(LC 10)
Max Uplift 1=5(LC 12), 3=5(LC 13)
Max Grav 1=62(LC 1), 3=62(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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VG1	VALLEY	1	1	173920669

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:51 2025 Page 1

ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

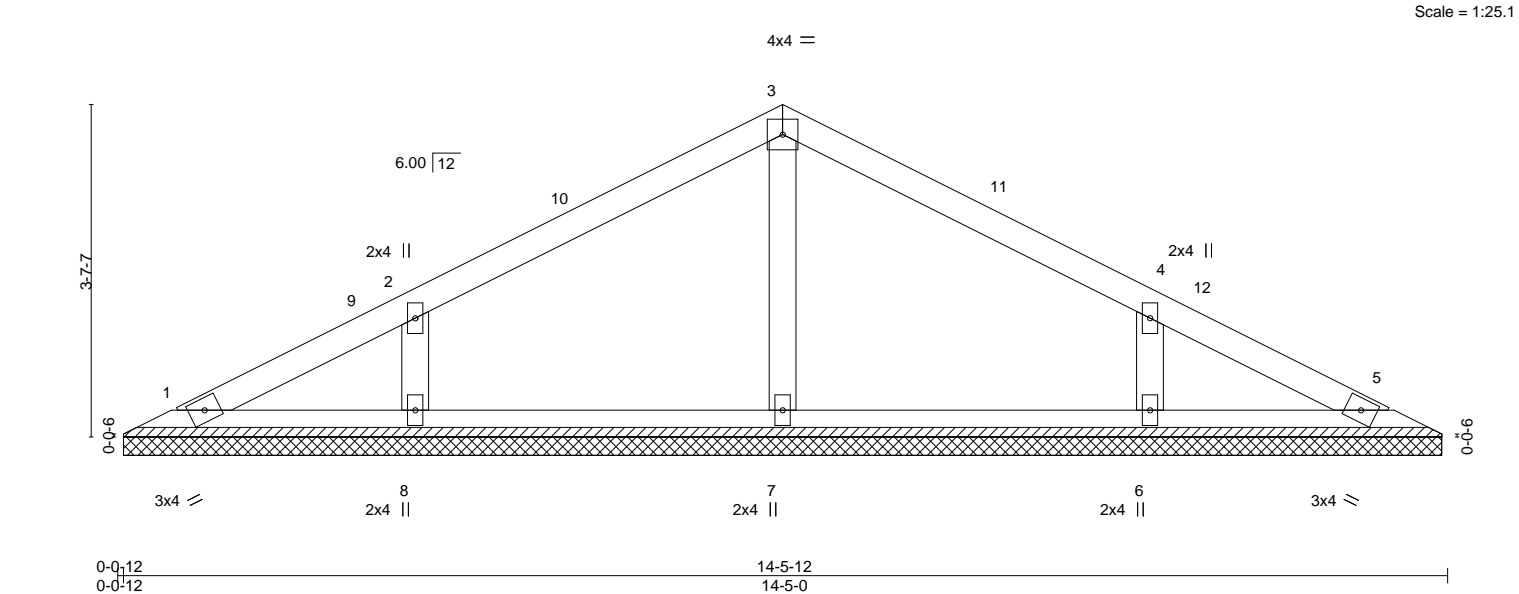
Job Reference (optional)

14-5-12

7-2-14

7-2-14

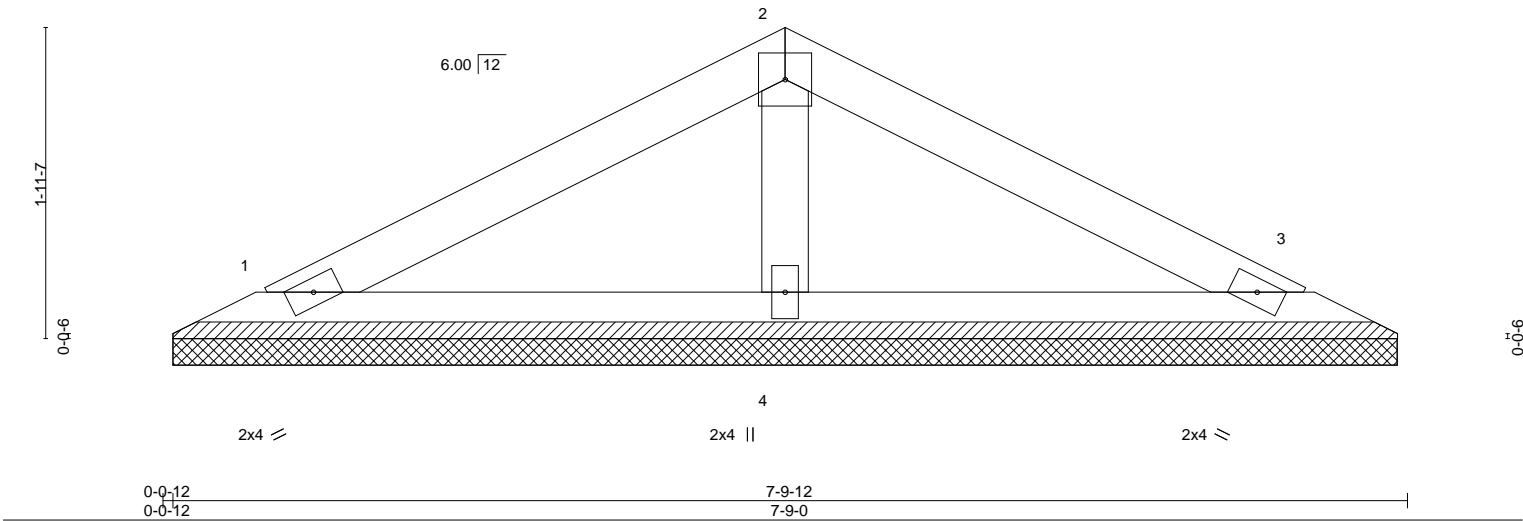
7-2-14



Job	Truss	Truss Type	Qty	Ply	Cates/Lot 102 Ducks Landing/Harnett
J0325-1597	VG2	VALLEY	1	1	173920670

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 08:58:52 2025 Page 1
ID:aDWe9B_?OPf4LyIDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f 7-9-12 3-10-14

4x4 = Scale = 1:14.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 24 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=7-8-4, 3=7-8-4, 4=7-8-4
Max Horz 1=-24(LC 10)
Max Uplift 1=-28(LC 12), 3=-32(LC 13)
Max Grav 1=133(LC 1), 3=133(LC 1), 4=255(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=6.0psf; h=25ft; 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
 - 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.
 - Non Standard bearing condition. Review required.



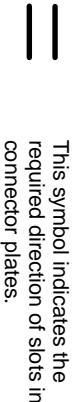
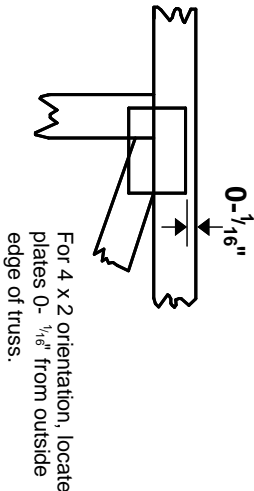
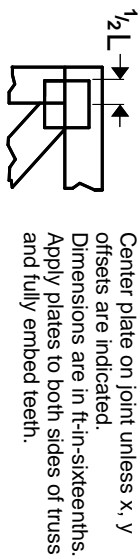
June 4,2025

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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



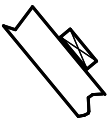
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

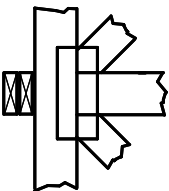
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

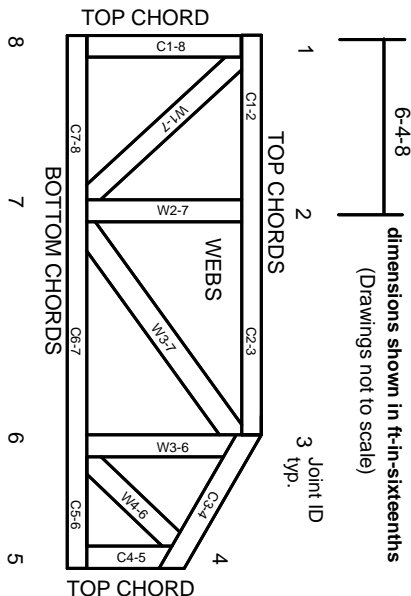
BEARING



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 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.