

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1589
Lot 24 Ducks Landing

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

Pages or sheets covered by this seal: I73797679 thru I73797710

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

North Carolina COA: C-0844



May 29, 2025

Gilbert, Eric

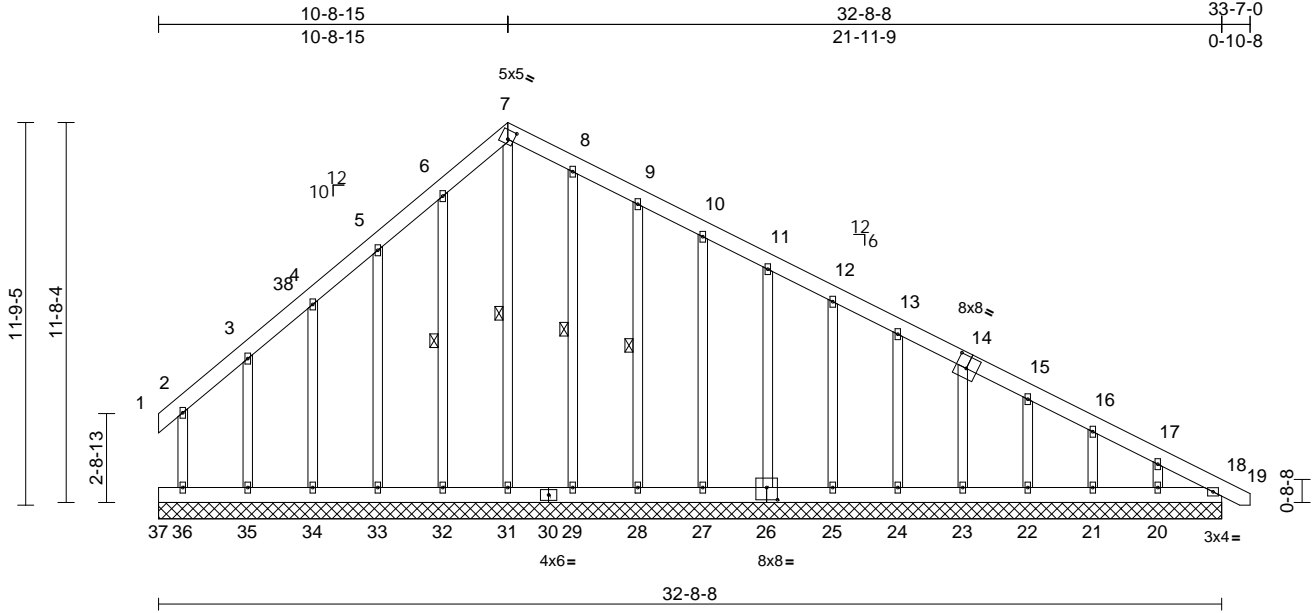
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 24 Ducks Landing
J0325-1589	A1	Roof Special Supported Gable	1	1	173797679
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:70.9

Plate Offsets (X, Y): [7:0-2-2,0-3-4], [14:0-4-0,0-4-8], [26:0-4-0,0-4-8]

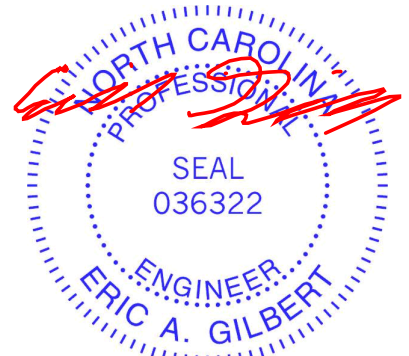
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 307 lb FT = 20%											

LUMBER		TOP CHORD		1-2=-152/362, 2-3=-147/365, 3-4=-140/446, 4-5=-178/558, 5-6=-225/693, 6-7=-241/736, 7-8=-212/653, 8-9=-211/649, 9-10=-186/578, 10-11=-165/518, 11-12=-146/462, 12-13=-126/405, 13-15=-105/343, 15-16=-70/238, 16-17=-50/168, 17-18=-37/78, 18-19=0/8	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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 1, 23 lb uplift at joint 32, 77 lb uplift at joint 33, 62 lb uplift at joint 34, 65 lb uplift at joint 35, 45 lb uplift at joint 36, 53 lb uplift at joint 28, 36 lb uplift at joint 27, 32 lb uplift at joint 26, 33 lb uplift at joint 25, 38 lb uplift at joint 24, 32 lb uplift at joint 23, 30 lb uplift at joint 22, 33 lb uplift at joint 21, 34 lb uplift at joint 20 and 33 lb uplift at joint 18. 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
TOP CHORD		2x6 SP No.1			
BOT CHORD		2x6 SP No.1			
OTHERS		2x4 SP No.2			
BRACING		Structural wood sheathing directly applied or 6-0-0 oc purlins.			
TOP CHORD		Rigid ceiling directly applied or 6-0-0 oc bracing.			
BOT CHORD		1 Row at midpt		7-31, 6-32, 8-29, 9-28	
WEBS		(size)		1=32-8-8, 18=32-8-8, 20=32-8-8, 21=32-8-8, 22=32-8-8, 23=32-8-8, 24=32-8-8, 25=32-8-8, 26=32-8-8, 27=32-8-8, 28=32-8-8, 29=32-8-8, 31=32-8-8, 32=32-8-8, 33=32-8-8, 34=32-8-8, 35=32-8-8, 36=32-8-8, 37=32-8-8	
REACTIONS		Max Horiz		1=-275 (LC 8)	
		Max Uplift		1=-227 (LC 8), 18=-33 (LC 13), 20=-34 (LC 13), 21=-33 (LC 13), 22=-30 (LC 13), 23=-32 (LC 13), 24=-38 (LC 13), 25=-33 (LC 13), 26=-32 (LC 13), 27=-36 (LC 13), 28=-53 (LC 13), 32=-23 (LC 12), 33=-77 (LC 12), 34=-62 (LC 12), 35=-65 (LC 12), 36=-45 (LC 12)	
		Max Grav		1=98 (LC 11), 18=119 (LC 26), 20=166 (LC 1), 21=160 (LC 1), 22=151 (LC 26), 23=159 (LC 1), 24=168 (LC 26), 25=159 (LC 26), 26=160 (LC 1), 27=159 (LC 1), 28=162 (LC 26), 29=164 (LC 1), 31=369 (LC 13), 32=197 (LC 19), 33=173 (LC 19), 34=176 (LC 19), 35=185 (LC 19), 36=136 (LC 19), 37=1 (LC 3)	

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 2-0-13 to 6-5-10, Exterior(2N) 6-5-10 to 12-9-11, Corner(3R) 12-9-11 to 17-2-8, Exterior(2N) 17-2-8 to 35-5-14 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.

LOAD CASE(S) Standard



May 29, 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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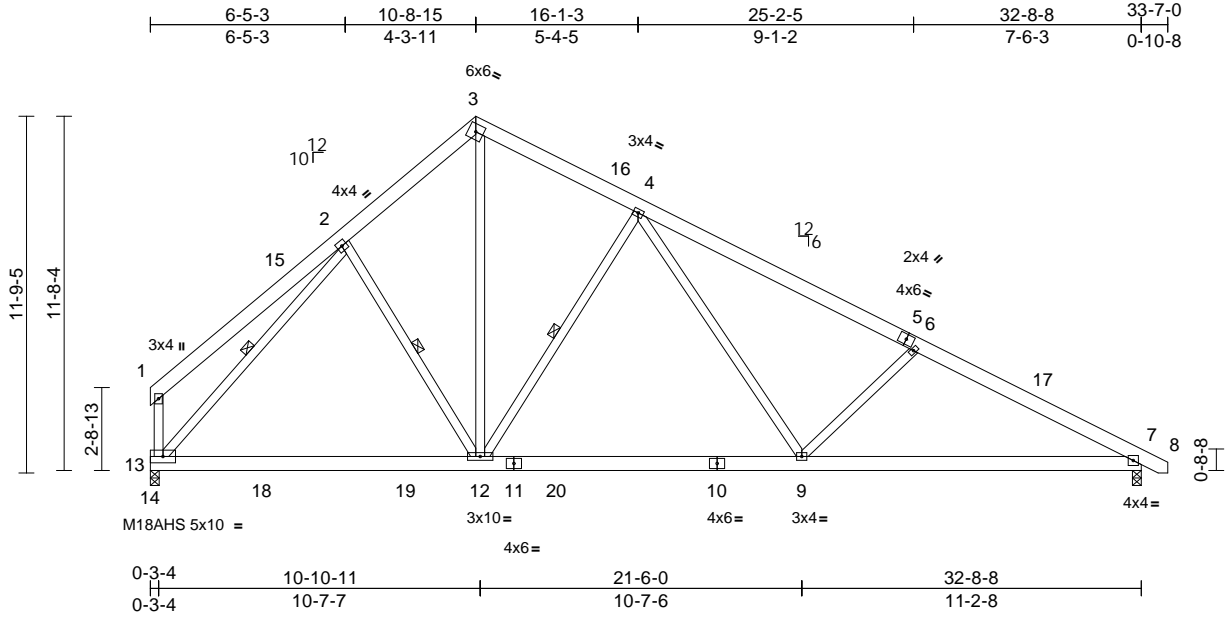
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797680
J0325-1589	A2	Roof Special	8	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:19
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Page: 1



Scale = 1:76

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.17	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26	12-13	>999	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	9	>999	240	Weight: 251 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 4-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-13, 4-12, 2-12

REACTIONS

(size) 7=0-3-8, 13=0-3-8
Max Horiz 13=275 (LC 8)
Max Uplift 7=-105 (LC 13), 13=-55 (LC 13)
Max Grav 7=1520 (LC 20), 13=1586 (LC 19)

FORCES

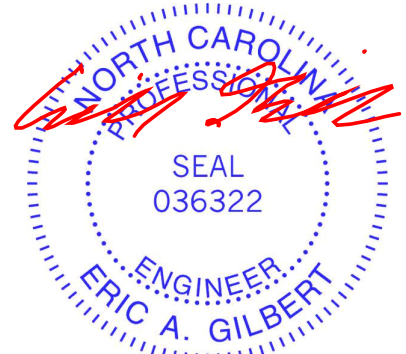
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-296/161, 2-3=-1445/440, 3-4=-1282/405, 4-6=-2283/464, 6-7=-2545/497, 7-8=0/8, 1-13=-307/171
BOT CHORD 13-14=0/0, 12-13=-79/1164, 9-12=-99/1522, 7-9=-334/2201
WEBS 2-13=-1424/218, 3-12=-317/1208, 4-12=-833/314, 2-12=-110/249, 4-9=-74/888, 6-9=-456/277

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2-4-1 to 6-8-13, Interior (1) 6-8-13 to 12-9-11, Exterior(2R) 12-9-11 to 17-2-8, Interior (1) 17-2-8 to 35-5-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 13 and 105 lb uplift at joint 7.

LOAD CASE(S) Standard



May 29, 2025

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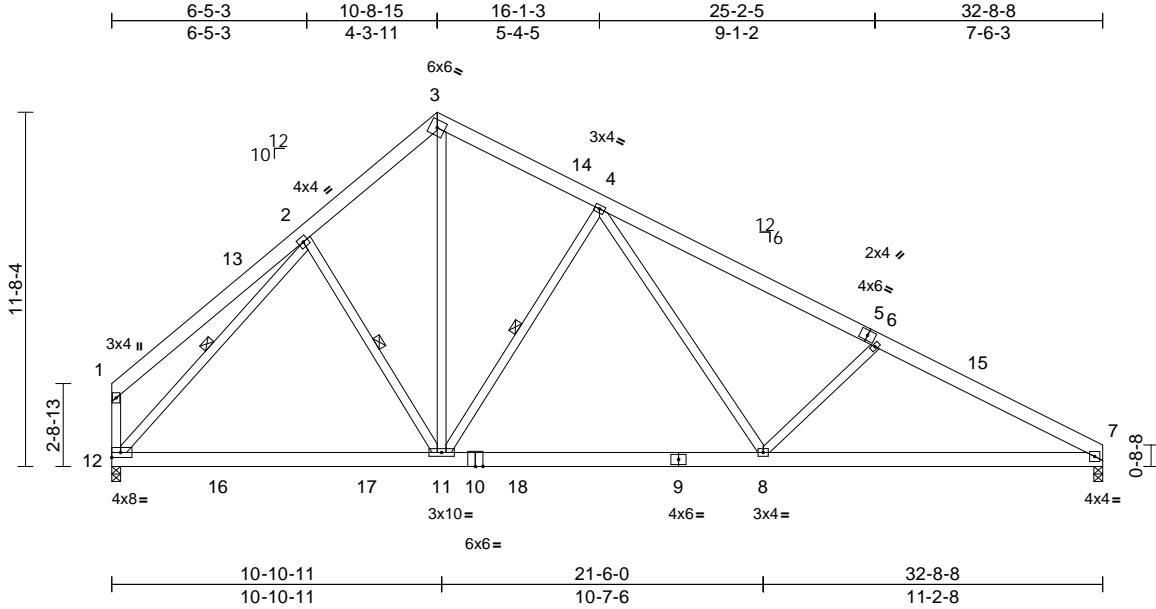
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797681
J0325-1589	A3	Roof Special	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:76

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.19	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.28	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	8	>999	240	Weight: 249 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 4-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-11, 2-11

REACTIONS

(size) 7=0-3-8, 12=0-3-8
Max Horiz 12=273 (LC 8)
Max Uplift 7=-94 (LC 13), 12=-58 (LC 13)
Max Grav 7=1485 (LC 20), 12=1587 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-286/170, 2-3=-1465/444,
3-4=-1299/409, 4-6=-2299/476,
6-7=-2561/512, 1-12=-303/178

BOT CHORD 11-12=-93/1184, 8-11=-111/1536,
7-8=-358/2215

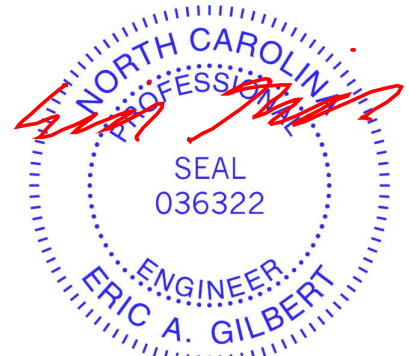
WEBS 2-12=-1456/214, 3-11=-321/1229,
4-11=-832/314, 2-11=-118/255, 4-8=-83/887,
6-8=-457/288

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 2-2-9 to 6-7-5, Interior (1) 6-7-5 to 12-9-11, Exterior(2R) 12-9-11 to 17-2-8, Interior (1) 17-2-8 to 34-7-9 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 12 and 94 lb uplift at joint 7.

LOAD CASE(S) Standard



May 29,2025

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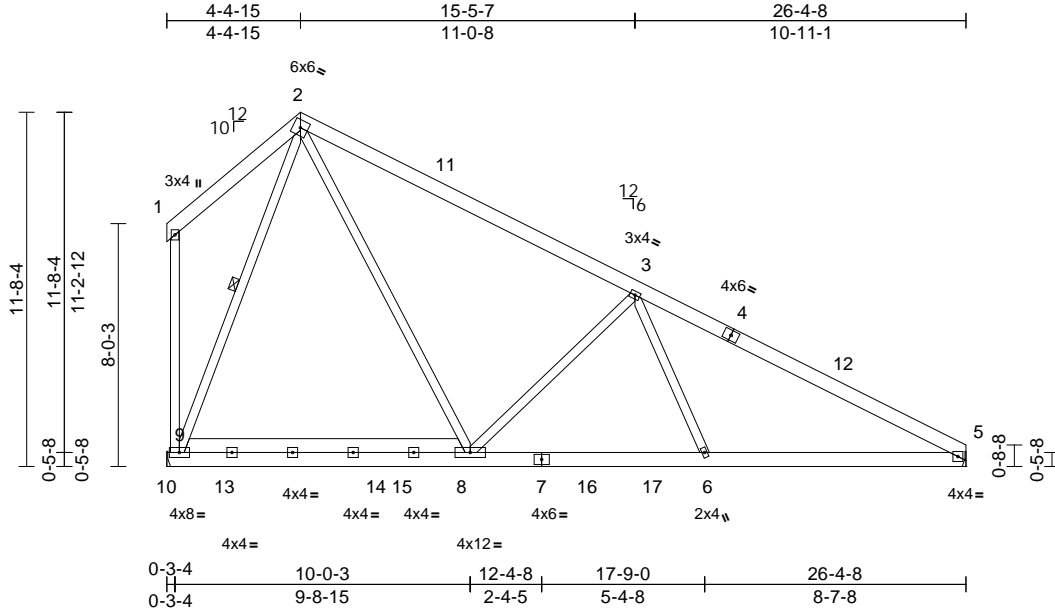
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	
J0325-1589	A4	Roof Special	8	1	Job Reference (optional)	173797682

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:76

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.14	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	5-6	>999	240	Weight: 221 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 5-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9

REACTIONS (size) 5= Mechanical, 9= Mechanical
Max Horiz 9=-293 (LC 13)
Max Uplift 5=-27 (LC 13)
Max Grav 5=1209 (LC 20), 9=1475 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-75/114, 2-3=-1166/209, 3-5=-1939/218, 1-9=-110/119
BOT CHORD 9-10=0/8, 8-9=0/464, 6-8=-89/1517, 5-6=-56/1643
WEBS 2-9=-1134/224, 2-8=-67/1260, 3-8=-845/399, 3-6=0/408

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 8-8-1 to 12-9-12, Exterior(2R) 12-9-12 to 17-2-8, Interior (1) 17-2-8 to 34-8-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 4-5-0 from left end, supported at two points, 5-0-0 apart.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5.

LOAD CASE(S) Standard



May 29,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	A5	Roof Special Supported Gable	1	1	Job Reference (optional)

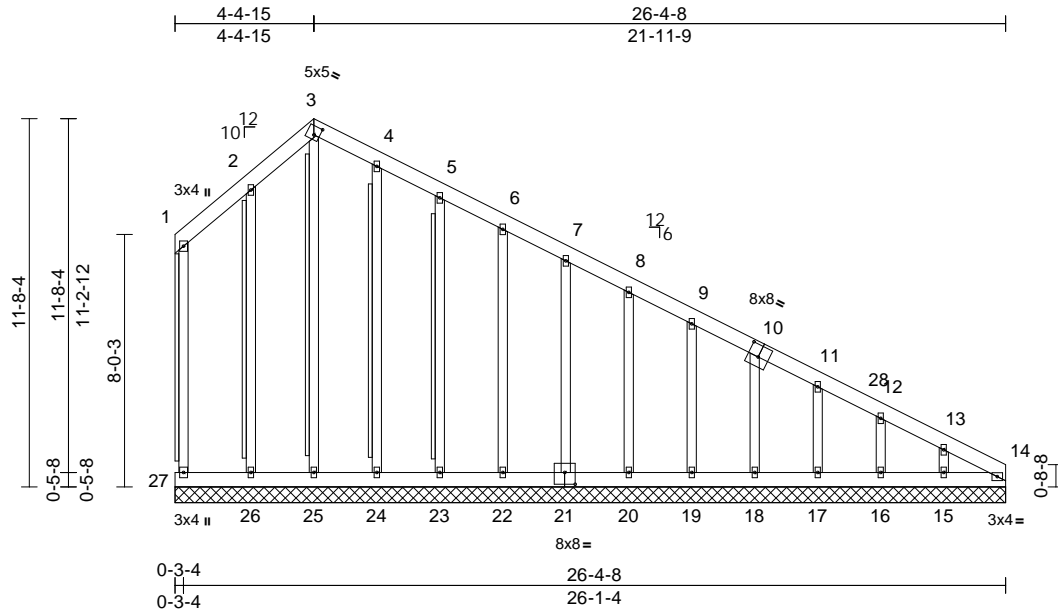
I73797683

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:19

Page: 1

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Scale = 1:73.2

Plate Offsets (X, Y): [3:0-2-2,0-3-4], [10:0-4-0,0-4-8], [21:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.01	14	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 253 lb FT = 20%											

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2 *Except* 0-0,0-0,0-0,0-0,0-0:2x4 SPF No.2(flat)

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.
WEBS	T-Brace: 2x4 SPF No.2 - 1-27, 3-25, 2-26, 4-24, 5-23 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)	14=26-4-8, 15=26-4-8, 16=26-4-8, 17=26-4-8, 18=26-4-8, 19=26-4-8, 20=26-4-8, 21=26-4-8, 22=26-4-8, 23=26-4-8, 24=26-4-8, 25=26-4-8, 26=26-4-8, 27=26-4-8
Max Horiz	27=431 (LC 13)
Max Uplift	15=123 (LC 13), 16=71 (LC 13), 17=56 (LC 13), 18=75 (LC 13), 19=71 (LC 13), 20=69 (LC 13), 21=69 (LC 13), 22=69 (LC 13), 23=75 (LC 13), 24=53 (LC 13), 26=97 (LC 12), 27=62 (LC 12)
Max Grav	14=227 (LC 13), 15=178 (LC 26), 16=157 (LC 26), 17=151 (LC 1), 18=159 (LC 26), 19=168 (LC 1), 20=159 (LC 26), 21=160 (LC 1), 22=159 (LC 1), 23=162 (LC 26), 24=164 (LC 1), 25=172 (LC 21), 26=204 (LC 19), 27=86 (LC 19)

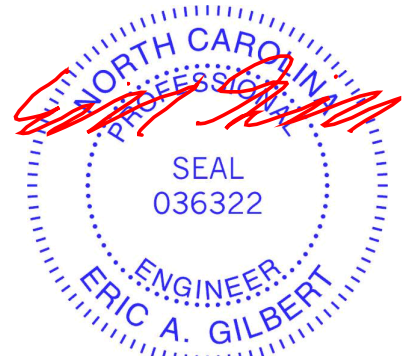
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-27=69/121, 1-2=37/93, 2-3=76/248, 3-4=78/250, 4-5=98/213, 5-6=116/151, 6-7=133/93, 7-8=161/73, 8-9=193/58, 9-11=292/85, 11-12=338/103, 12-13=392/124, 13-14=481/157
BOT CHORD	26-27=138/452, 25-26=138/452, 24-25=138/452, 23-24=138/452, 22-23=138/452, 20-22=138/452, 19-20=138/452, 18-19=138/452, 17-18=133/446, 16-17=133/446, 15-16=133/446, 14-15=133/446
WEBS	3-25=134/17, 2-26=156/215, 4-24=124/77, 5-23=122/116, 6-22=120/106, 7-21=120/105, 8-20=119/105, 9-19=128/109, 10-18=119/111, 11-17=111/93, 12-16=120/146, 13-15=129/221

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 8-8-1 to 12-9-12, Corner(3R) 12-9-12 to 17-2-8, Exterior(2N) 17-2-8 to 34-9-5 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 27, 97 lb uplift at joint 26, 53 lb uplift at joint 24, 75 lb uplift at joint 23, 69 lb uplift at joint 22, 69 lb uplift at joint 21, 69 lb uplift at joint 20, 71 lb uplift at joint 19, 75 lb uplift at joint 18, 56 lb uplift at joint 17, 71 lb uplift at joint 16 and 123 lb uplift at joint 15.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

May 29, 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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TRENCO
ENGINEERING BY
A MiTek Affiliate818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	B1	ATTIC	1	1	Job Reference (optional)

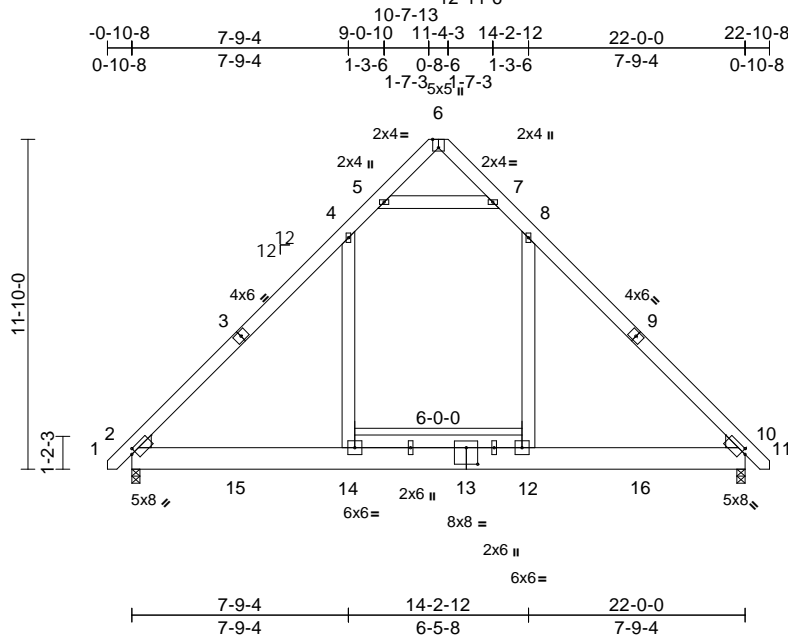
I73797684

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 29 14:14:16

Page: 1

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Scale = 1:82.7

Plate Offsets (X, Y): [2:0-1-12,0-1-12], [6:0-3-9,Edge], [10:0-1-12,0-1-12], [13:0-4-14,0-7-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.05	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	2-14	>999	240	Weight: 227 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1
WEDGE Left: 2x6 SP No.1
Right: 2x6 SP No.1

BRACING

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

REACTIONS (size) 2=0-3-8, 10=0-3-8
Max Horiz 2=-346 (LC 10)
Max Grav 2=1460 (LC 20), 10=1460 (LC 21)

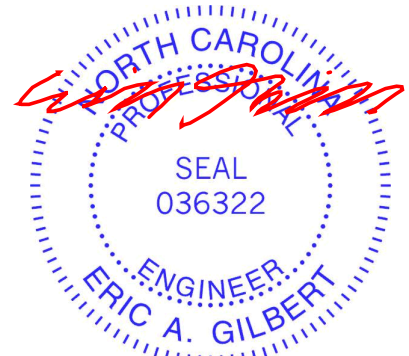
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1737/81, 3-4=-1484/113, 4-5=-877/230, 7-8=-877/230, 8-9=-1484/113, 9-10=-1737/81
BOT CHORD 2-15=0/1110, 14-15=0/1110, 13-14=0/1110, 12-13=0/1110, 12-16=0/1110, 10-16=0/1110
WEBS 5-7=-1274/505, 4-14=-63/736, 8-12=-63/736

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-7 to 3-8-6, Exterior(2N) 3-8-6 to 11-0-0, Corner(3R) 11-0-0 to 15-4-13, Exterior (2N) 15-4-13 to 22-8-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.



May 29,2025

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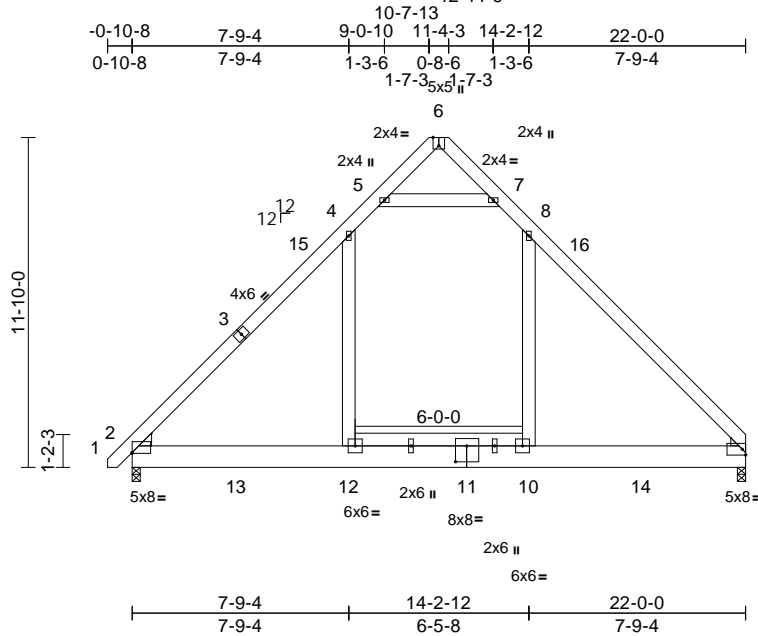
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	B2	ATTIC	3	1	173797685
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 29 14:15:55

Page: 1

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Scale = 1:82.6

Plate Offsets (X, Y): [2:Edge,0-0-5], [6:0-3-9,Edge], [11:0-6-13,0-4-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	9-10	>999	240	Weight: 224 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 WEDGE Left: 2x6 SP No.1
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8
 Max Horiz 2=275 (LC 9)
 Max Grav 2=1466 (LC 20), 9=1425 (LC 20)

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

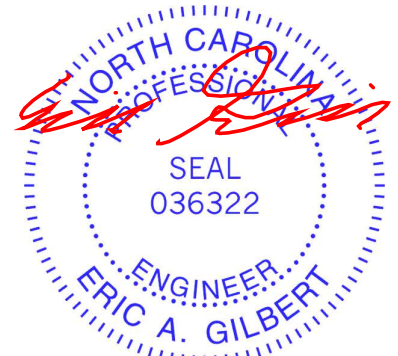
TOP CHORD 2-3=-1732/0, 3-15=-1492/0, 4-15=-1479/31,
 4-5=-868/142, 5-6=-98/262, 7-8=-900/155,
 8-16=-1486/6, 9-16=-1723/0

BOT CHORD 2-13=0/1090, 12-13=0/1090, 11-12=0/1090,
 10-11=0/1090, 10-14=0/1090, 9-14=0/1090
 WEBS 5-7=-1334/337, 4-12=-23/742, 8-10=-34/688

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=15ft;
 Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
 Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 11-0-0,
 Exterior(2R) 11-0-0 to 15-4-13, Interior (1) 15-4-13 to
 21-10-4 zone;C-C for members and forces & MWFRS
 for reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 30.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members, with BCDL = 10.0psf.
- 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7;
 Wall dead load (5.0psf) on member(s).4-12, 8-10
- 6) Bottom chord live load (40.0 psf) and additional bottom
 chord dead load (10.0 psf) applied only to room. 10-12
- 7) Attic room checked for L/360 deflection.



May 29,2025

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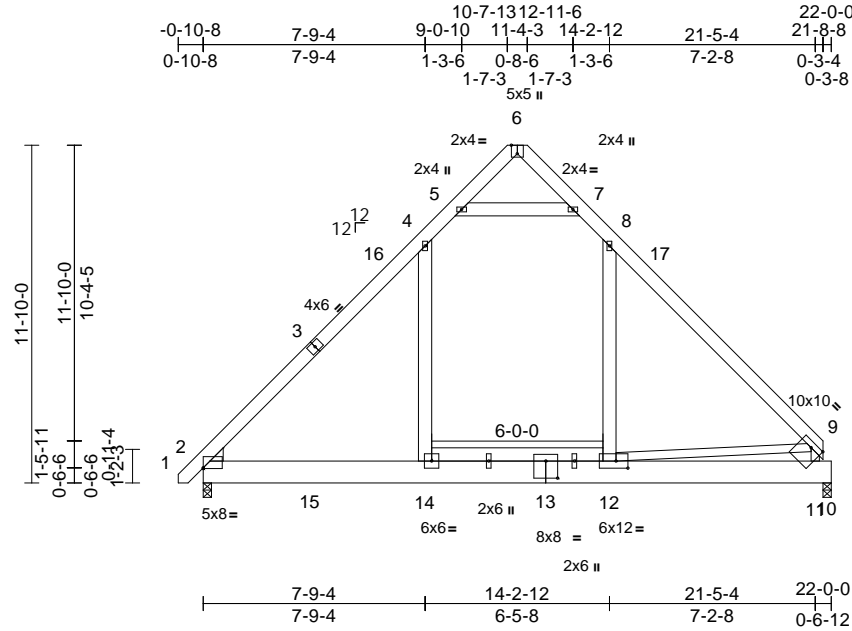
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	B3	ATTIC	1	1	173797686
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 29 14:17:49

Page: 1

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Scale = 1:80.7

Plate Offsets (X, Y): [2:Edge,0-0-5], [6:0-3-9,Edge], [9:0-4-12,0-2-4], [12:0-5-0,0-3-0], [13:0-4-15,0-7-3]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.07	2-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	2-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	11-12	>999	240	Weight: 234 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except* 9-11,9-12:2x4 SP No.2
 WEDGE Left: 2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 6-0-0 oc bracing: 11-12.

REACTIONS

(size) 2=0-3-8, 10=0-3-8
 Max Horiz 2=273 (LC 9)
 Max Grav 2=1480 (LC 20), 10=1334 (LC 20)

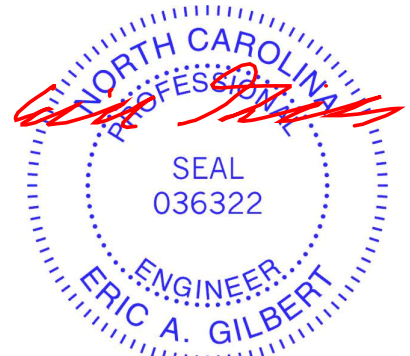
FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1705/0, 3-16=-1465/0, 4-16=-1452/25, 4-5=-849/139, 5-6=-96/266, 7-8=-894/152, 8-17=-1391/6, 9-17=-1579/0
 BOT CHORD 2-15=0/1067, 14-15=0/1067, 13-14=0/1067, 12-13=0/1067
 WEBS 5-7=-1314/330, 4-14=-20/730, 8-12=-46/570, 9-11=-1356/37, 9-12=0/1099

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-7 to 3-8-6, Interior (1) 3-8-6 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-13, Interior (1) 15-4-13 to 21-5-7 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 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.



May 29,2025

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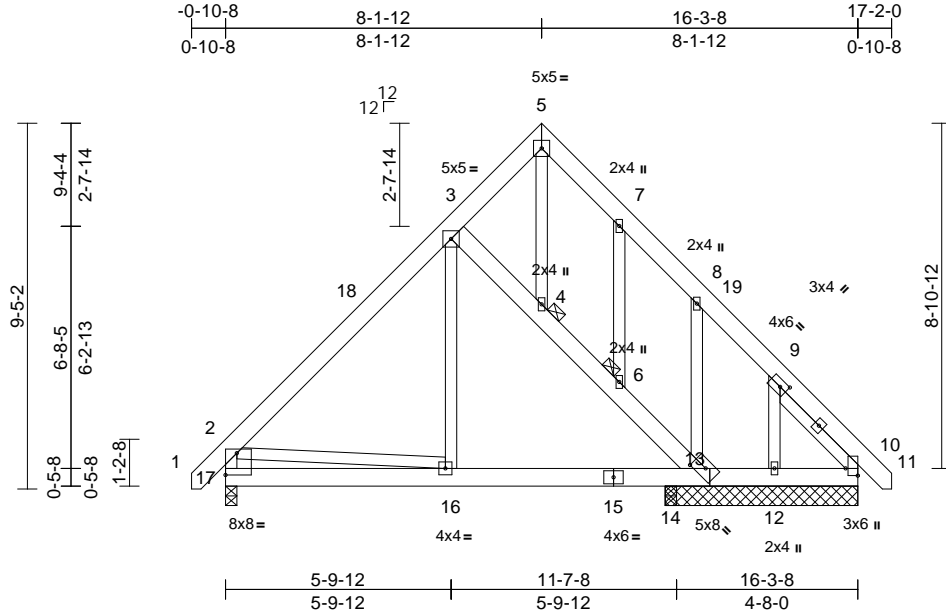
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	C1	Common Structural Gable	1	1	Job Reference (optional)
					173797687

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:20

Page: 1

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Scale = 1:59.4

Plate Offsets (X, Y): [9:0-2-4,0-2-0], [10:Edge,0-3-12], [13:0-4-3,0-2-11], [17:Edge,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.00	16-17	>999	240	Weight: 164 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-10-13

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.
JOINTS	1 Brace at Jt(s): 4, 6

REACTIONS	(size)	10=4-11-8, 12=4-11-8, 13=4-11-8, 14=0-3-8, 17=0-3-8
	Max Horiz	17=272 (LC 11)
	Max Uplift	10=6 (LC 11), 12=221 (LC 13), 13=349 (LC 12), 17=36 (LC 12)
	Max Grav	10=285 (LC 22), 12=196 (LC 20), 13=297 (LC 1), 14=313 (LC 3), 17=541 (LC 1)

FORCES

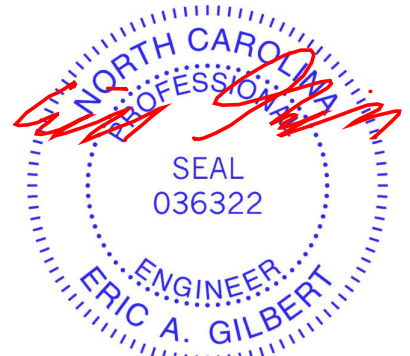
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/37, 2-3=476/58, 3-5=173/115, 5-7=106/59, 7-8=147/0, 8-9=208/102, 9-10=410/209, 10-11=0/6, 2-17=484/111, 3-4=345/261, 4-6=362/260, 6-13=394/299
BOT CHORD	16-17=279/355, 14-16=99/364, 12-14=157/364, 10-12=155/314
WEBS	2-16=55/262, 4-5=52/39, 6-7=94/101, 8-13=203/211, 9-12=183/240, 3-16=0/229

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior (1) 3-7-12 to 8-1-12, Exterior(2R) 8-1-12 to 12-6-9, Interior (1) 12-6-9 to 17-0-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 17, 349 lb uplift at joint 13, 221 lb uplift at joint 12 and 6 lb uplift at joint 10.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 29,2025

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.sbcacompnents.com)

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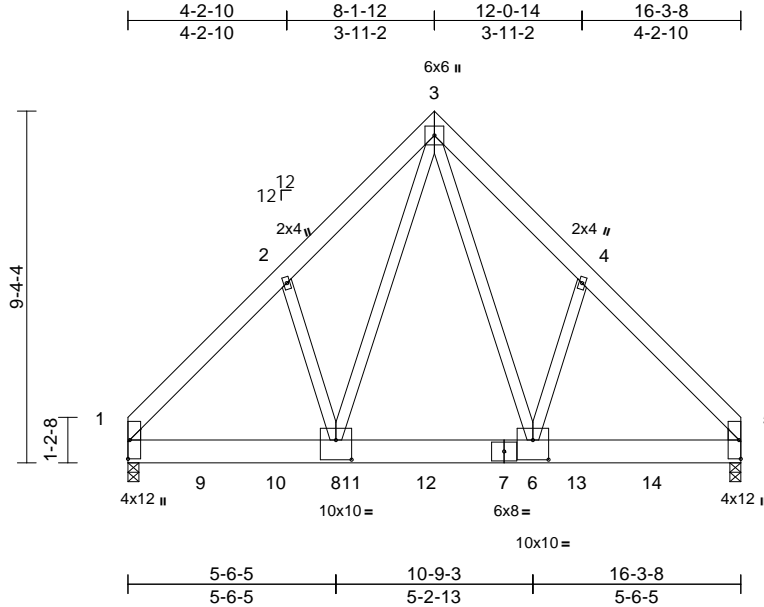
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	C2	Common Girder	1	2	Job Reference (optional)
					I73797688

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:20
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Page: 1



Scale = 1:61.3

Plate Offsets (X, Y): [6:0-5-0,0-6-4], [8:0-5-0,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.04	1-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.07	1-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.02	1-8	>999	240	Weight: 291 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 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 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=0-3-8, 5=0-3-8
Max Horiz	1=209 (LC 26)
Max Uplift	1=-164 (LC 9), 5=-191 (LC 8)
Max Grav	1=4849 (LC 16), 5=5838 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-5054/217, 2-3=-4730/311, 3-4=-4705/310, 4-5=-5031/216
BOT CHORD	1-8=-167/3341, 6-8=-79/2426, 5-6=-82/3238
WEBS	4-6=-66/423, 3-8=-235/3406, 2-8=-65/418, 3-6=-233/3345

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 1 and 191 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1189 lb down and 39 lb up at 1-11-4, 1189 lb down and 39 lb up at 3-11-4, 1189 lb down and 39 lb up at 5-11-4, 1189 lb down and 39 lb up at 7-11-4, 1189 lb down and 39 lb up at 9-11-4, 1189 lb down and 39 lb up at 11-11-4, and 1189 lb down and 39 lb up at 13-11-4, and 1197 lb down and 34 lb up at 16-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-1046 (F), 5=-1054 (F), 9=-1046 (F),
10=-1046 (F), 11=-1046 (F), 12=-1046 (F), 13=-1046 (F), 14=-1046 (F)



May 29, 2025

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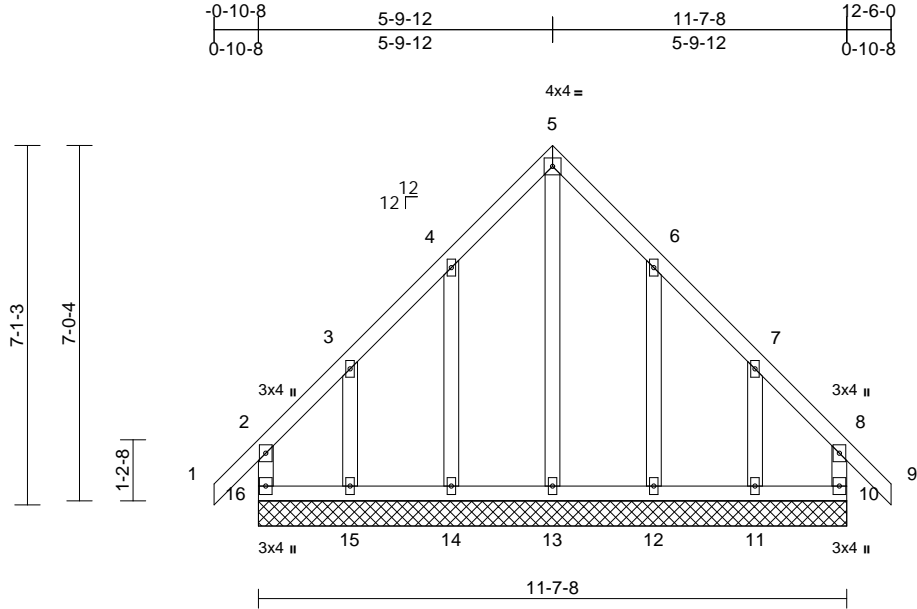
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797689
J0325-1589	D1	Common Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:20
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Page: 1



Scale = 1:45.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 79 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	10=11-7-8, 11=11-7-8, 12=11-7-8, 13=11-7-8, 14=11-7-8, 15=11-7-8, 16=11-7-8
	Max Horiz	16=200 (LC 10)
	Max Uplift	10=113 (LC 9), 11=210 (LC 13), 12=124 (LC 13), 14=124 (LC 12), 15=215 (LC 12), 16=126 (LC 8)
	Max Grav	10=187 (LC 19), 11=225 (LC 20), 12=195 (LC 20), 13=290 (LC 13), 14=194 (LC 19), 15=231 (LC 19), 16=198 (LC 20)

FORCES

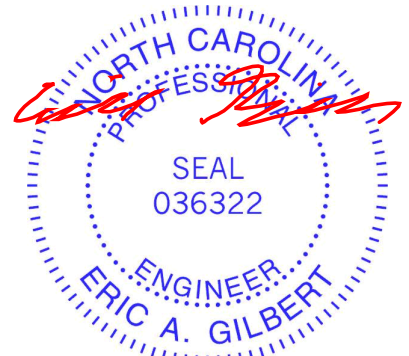
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-16=-156/138, 1-2=0/43, 2-3=-144/150, 3-4=-108/259, 4-5=-193/431, 5-6=-193/432, 6-7=-106/253, 7-8=-130/137, 8-9=0/43, 8-10=-147/142
BOT CHORD	15-16=-93/139, 14-15=-93/139, 13-14=-93/139, 12-13=-93/139, 11-12=-93/139, 10-11=-93/139
WEBS	5-13=-493/153, 4-14=-163/242, 3-15=-171/287, 6-12=-163/242, 7-11=-172/286

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-9-12, Exterior (2N) 3-9-12 to 5-9-12, Corner(3R) 5-9-12 to 10-2-9, Exterior(2N) 10-2-9 to 12-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 16, 113 lb uplift at joint 10, 124 lb uplift at joint 14, 215 lb uplift at joint 15, 124 lb uplift at joint 12 and 210 lb uplift at joint 11.

LOAD CASE(S) Standard



May 29,2025

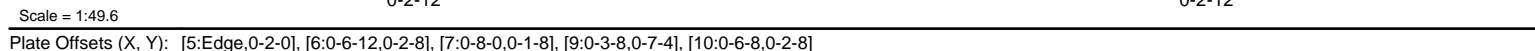
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818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:20 Page: 1
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LUMBER		3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60	1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
TOP CHORD	2x6 SP No.1		Uniform Loads (lb/ft)
BOT CHORD	2x10 SP 2400F 2.0E		Vert: 1-5=-60, 6-10=-20
WEBS	2x4 SP No.2 *Except* 10-1,5-6:2x6 SP No.1		Concentrated Loads (lb)
OTHERS	2x6 SPF No.2(flat)		Vert: 1=-16, 3=-686, 2=-686, 9=-1203 (B), 11=-686, 12=-686, 13=-686, 14=-686, 15=-686, 16=-686, 17=-1203 (B), 18=-1203 (B), 19=-1203 (B), 20=-1203 (B), 21=-1203 (B), 22=-1203 (B), 23=-1203 (B)
BRACING		4) Provide adequate drainage to prevent water ponding.	
TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.	
WEBS	T-Brace: 2x6 SPF No.2 - 2-10, 4-6 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.	7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.	
REACTIONS (size) 6=0-3-8, 10=0-3-8 Max Grav 6=9773 (LC 15), 10=9211 (LC 15)		8) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.	
FORCES (lb) - Maximum Compression/Maximum Tension		9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
TOP CHORD	1-10=-865/305, 1-2=-186/8, 2-4=-7321/0, 4-5=-198/7, 5-6=-1052/362	10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 47 lb down and 13 lb up at 0-2-12, 797 lb down and 289 lb up at 1-11-4, 797 lb down and 289 lb up at 3-11-4, 797 lb down and 289 lb up at 5-11-4, 797 lb down and 289 lb up at 7-11-4, 797 lb down and 289 lb up at 9-11-4, 797	
BOT CHORD	9-10=0/7321, 7-9=0/7264, 6-7=0/7264		
WEBS	2-10=-9913/0, 2-9=0/4331, 4-9=0/85, 4-7=0/4221, 4-6=-9817/0		

- NOTES**

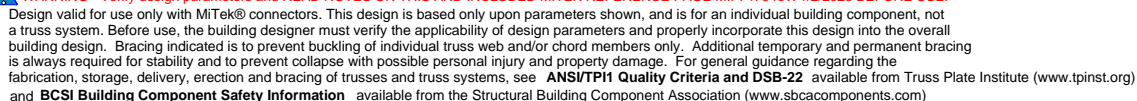
 - 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

lb down and 289 lb up at 11-11-4, and 797 lb down and 289 lb up at 13-11-4, and 797 lb down and 289 lb up at 15-11-4 on top chord, and 1455 lb down at 1-11-4, 1455 lb down at 3-11-4, 1455 lb down at 5-11-4, 1455 lb down at 7-11-4, 1455 lb down at 9-11-4, 1455 lb down at 11-11-4, and 1455 lb down at 13-11-4, and 1455 lb down at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

May 29, 2025



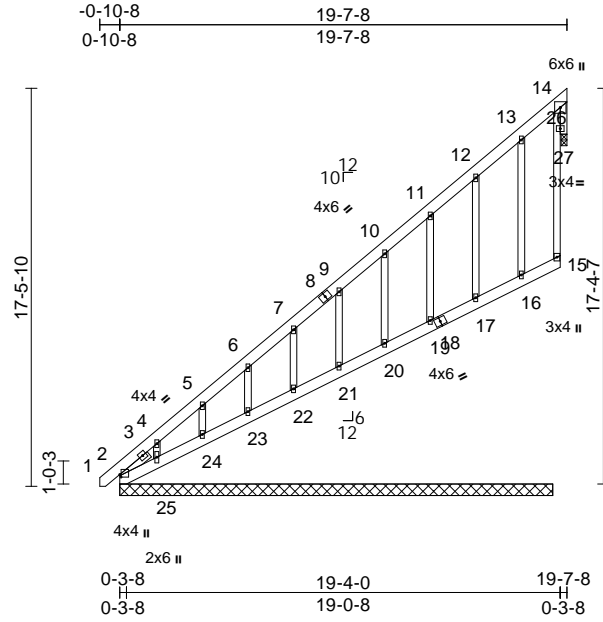
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M1	Jack-Open Supported Gable	1	1	173797691
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:101.1

Plate Offsets (X, Y): [2:0-1-5,0-0-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.01	27	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	15	>999	240	Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-7-3

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, Except:
	6-0-0 oc bracing: 17-19,15-16.

REACTIONS (size)	2=19-0-0, 16=19-0-0, 17=19-0-0, 19=19-0-0, 20=19-0-0, 21=19-0-0, 22=19-0-0, 23=19-0-0, 24=19-0-0, 25=19-0-0, 27=0-3-0
Max Horiz	2=541 (LC 12)
Max Uplift	2=244 (LC 10), 16=52 (LC 12), 17=66 (LC 12), 19=62 (LC 12), 20=62 (LC 12), 21=63 (LC 12), 22=62 (LC 12), 23=66 (LC 12), 24=42 (LC 12), 25=344 (LC 12), 27=24 (LC 12)
Max Grav	2=666 (LC 12), 16=180 (LC 19), 17=176 (LC 19), 19=178 (LC 19), 20=177 (LC 19), 21=177 (LC 19), 22=177 (LC 19), 23=177 (LC 19), 24=176 (LC 19), 25=240 (LC 10), 27=47 (LC 19)

FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	1-2=0/7, 2-4=-1270/641, 4-5=-896/463, 5-6=-790/413, 6-7=-682/357, 7-9=-574/302, 9-10=-466/247, 10-11=-358/191, 11-12=-250/136, 12-13=-139/79, 13-14=-42/19, 15-26=0/20, 14-26=0/20

BOT CHORD	2-25=-35/26, 24-25=-17/19, 23-24=-17/18, 22-23=-17/19, 21-22=-17/19, 20-21=-17/19, 19-20=-17/19, 17-19=-18/18, 16-17=-16/20, 15-16=-18/7
WEBS	13-16=-133/132, 12-17=-141/150, 11-19=-137/144, 10-20=-137/144, 9-21=-137/145, 7-22=-137/145, 6-23=-137/146, 5-24=-137/142, 4-25=-305/524, 14-27=-48/45

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-0 to 3-7-8, Exterior(2N) 3-7-8 to 19-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 27 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 16, 17, 27 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 52 lb uplift at joint 16, 66 lb uplift at joint 17, 62 lb uplift at joint 19, 62 lb uplift at joint 20, 63 lb uplift at joint 21, 62 lb uplift at joint 22, 66 lb uplift at joint 23, 42 lb uplift at joint 24, 344 lb uplift at joint 25, 244 lb uplift at joint 2 and 24 lb uplift at joint 27.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 29,2025

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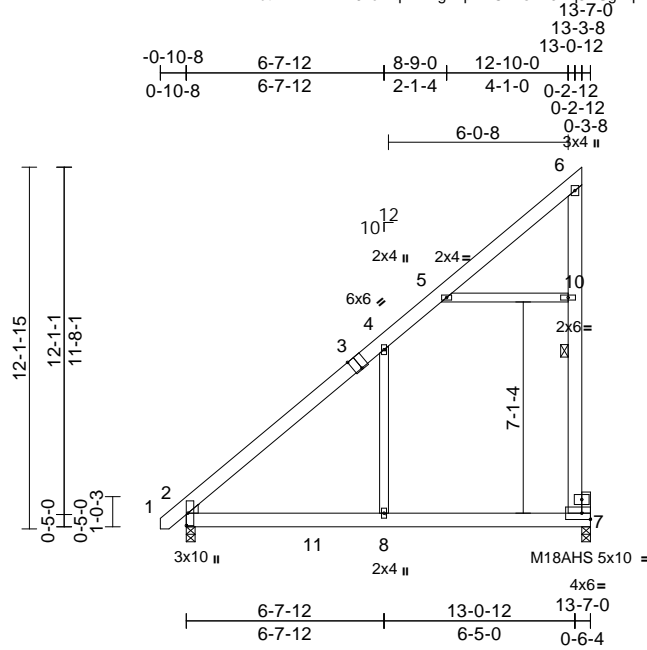
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M3	MONOPITCH	3	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21

Page: 1

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Scale = 1:77.5

Plate Offsets (X, Y): [3:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.32	2-8	>487	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.51	2-8	>305	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.29	2-8	>538	240	Weight: 117 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 6-7:2x6 SP No.1
WEDGE Left: 2x4 SP No.2

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 7.

LOAD CASE(S) Standard

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.
WEBS 1 Row at midpt 6-7

REACTIONS

(size) 2=0-3-8, 7=0-3-8
Max Horiz 2=374 (LC 12)
Max Uplift 7=218 (LC 12)
Max Grav 2=706 (LC 19), 7=847 (LC 19)

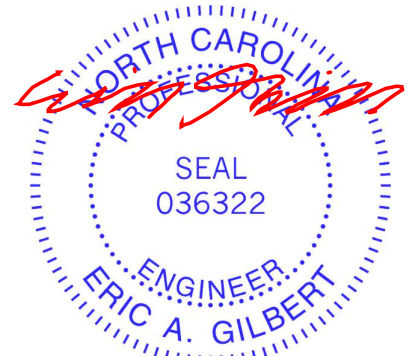
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/7, 2-4=-510/78, 4-5=-184/29,
5-6=-308/473, 7-10=-417/276, 6-10=-413/274
BOT CHORD 2-8=-111/242, 7-8=-111/242
WEBS 4-8=-123/269, 5-10=-532/241

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-12 to 3-8-1, Interior (1) 3-8-1 to
13-0-12 zone;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.



May 29,2025

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

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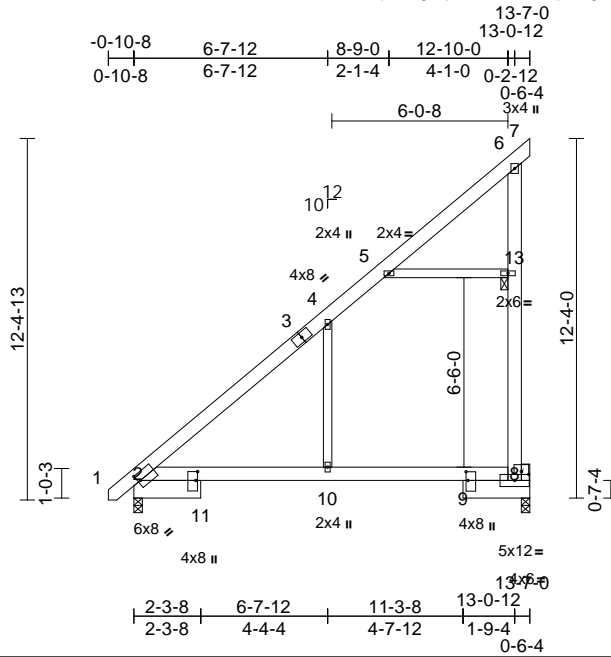
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M4	MONOPITCH	5	1	173797694
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21
ID:btRAI72F7f7VJzclHqi7k7zgvFp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:79

Plate Offsets (X, Y): [2:0-1-0,0-3-0], [9:0-3-9,0-0-13], [11:0-3-10,0-0-11], [12:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.27	10	>572	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.46	10	>340	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.28	10	>560	240	Weight: 128 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except* 2-8:2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 6-8:2x6 SP No.1

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 8.

LOAD CASE(S) Standard

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.

JOINTS 1 Brace at Jt(s): 13

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=384 (LC 12)
Max Uplift 8=233 (LC 12)
Max Grav 2=661 (LC 19), 8=849 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

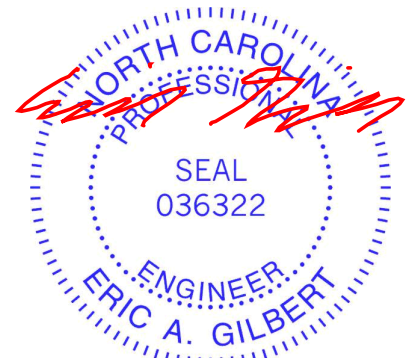
TOP CHORD 1-2=0/11, 2-4=-543/50, 4-5=-207/25,
5-6=-341/443, 6-7=-20/0, 8-13=-428/330,
6-13=-424/329

BOT CHORD 2-10=-123/252, 8-10=-123/252

WEBS 4-10=-85/239, 5-13=-516/245

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-8-12 to 3-8-1, Interior (1) 3-8-1 to 13-7-0
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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 4) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.



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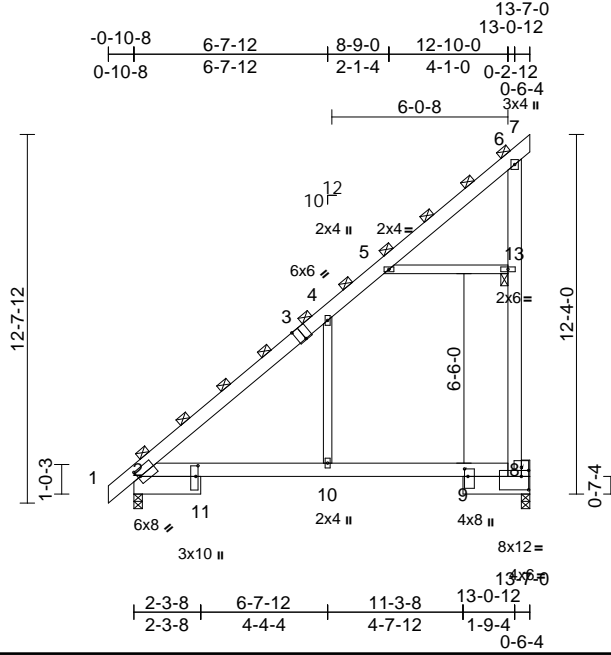
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M4A	MONOPITCH	1	1	173797695
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 29 14:25:42

Page: 1

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Scale = 1:79

Plate Offsets (X, Y): [2:0-1-0,0-3-0], [3:0-3-0,Edge], [8:0-3-0,0-5-8], [9:0-3-2,0-1-6], [11:0-4-6,0-0-14], [12:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-3-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.30	10	>509	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.51	10	>303	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.31	10	>499	240	Weight: 129 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except* 2-8:2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 6-8:2x6 SP No.1

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end
verticals
(Switched from sheeted: Spacing > 2-0-0).

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

JOINTS 1 Brace at Jt(s): 6,
13

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=436 (LC 12)
Max Uplift 8=262 (LC 12)
Max Grav 2=754 (LC 19), 8=954 (LC 19)

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

TOP CHORD 2-3=-611/39, 3-4=-387/57, 5-6=-382/498,
8-13=-481/371, 6-13=-477/369

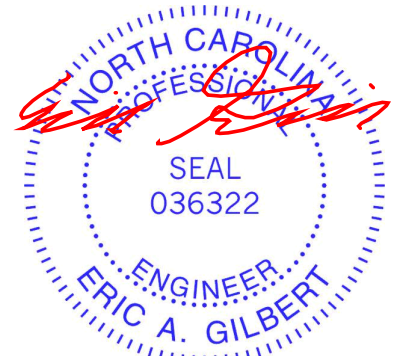
BOT CHORD 2-11=-135/252, 10-11=-138/283,
9-10=-138/283

WEBS 4-10=-96/269, 5-13=-579/275

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 13-7-0
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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.

- 4) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 262 lb uplift at
joint 8.
- 5) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.



May 29,2025

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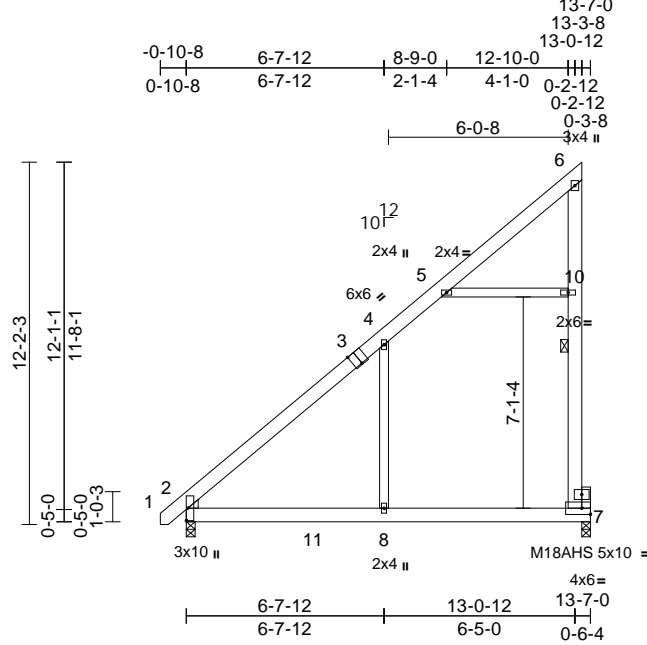
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M5	MONOPITCH	1	1	173797696
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21

Page: 1

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Scale = 1:77.5

Plate Offsets (X, Y): [3:0-3-0,Edge]

Loading	(psf)	Spacing	2-3-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.33	2-8	>473	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.52	2-8	>296	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.30	2-8	>521	240	Weight: 117 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 6-7:2x6 SP 2400F
	2.0E
WEDGE	Left: 2x4 SP No.2

- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 7.

LOAD CASE(S) Standard

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.
WEBS	1 Row at midpt 6-7

REACTIONS

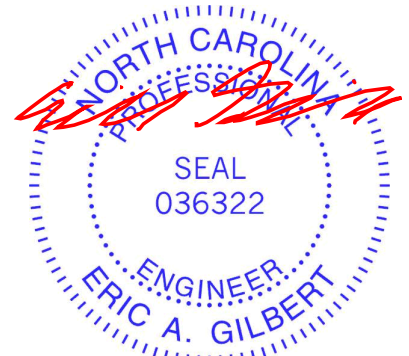
(size)	2=0-3-8, 7=0-3-8
Max Horiz	2=421 (LC 12)
Max Uplift	7=-245 (LC 12)
Max Grav	2=795 (LC 19), 7=953 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/9, 2-4=-588/71, 4-5=-212/26, 5-6=-360/561, 7-10=-478/315, 6-10=-474/314
BOT CHORD	2-8=-134/291, 7-8=-134/291
WEBS	4-8=-122/316, 5-10=-648/295

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 3-7-14, Interior (1) 3-7-14 to 13-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



May 29,2025

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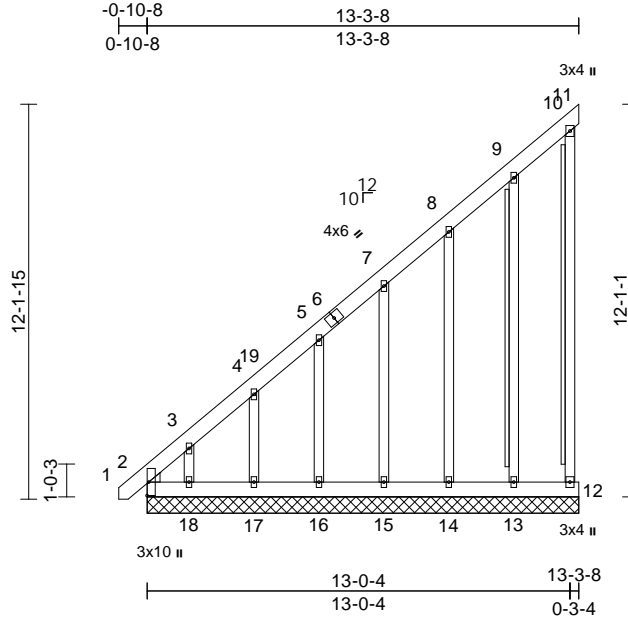
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	M6	MONOPITCH SUPPORTED	1	1	173797697
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21

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Scale = 1:70.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(LL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Vert(CT)	n/a	-	999		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Horz(CT)	-0.01	11	n/a		
Weight: 139 lb FT = 20%											

LUMBER	
TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2 *Except* 0-0,0-0:2x4 SPF No.2 (flat)
WEDGE	Left: 2x4 SP No.2

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 10-12, 9-13
	Fasten (2X) T and l 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=13-3-8, 11=13-3-8, 12=13-3-8, 13=13-3-8, 14=13-3-8, 15=13-3-8, 16=13-3-8, 17=13-3-8, 18=13-3-8
Max Horiz		2=546 (LC 12)
Max Uplift		2=-165 (LC 10), 11=-38 (LC 12), 12=-21 (LC 12), 13=-104 (LC 12), 14=-117 (LC 12), 15=-110 (LC 12), 16=-108 (LC 12), 17=-122 (LC 12) 18=-279 (LC 12)
Max Grav		2=572 (LC 12), 11=39 (LC 19), 12=44 (LC 19), 13=180 (LC 19), 14=189 (LC 19), 15=183 (LC 19), 16=181 (LC 19), 17=191 (LC 19), 18=201 (LC 19)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/7, 2-3=-1034/492, 3-4=-743/364, 4-5=-585/293, 5-7=-459/232, 7-8=-330/170, 8-9=-196/103, 9-10=-71/37, 10-11=-34/24, 10-12=-30/37
BOT CHORD	2-18=-1/0, 17-18=0/0, 16-17=0/0, 15-16=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0

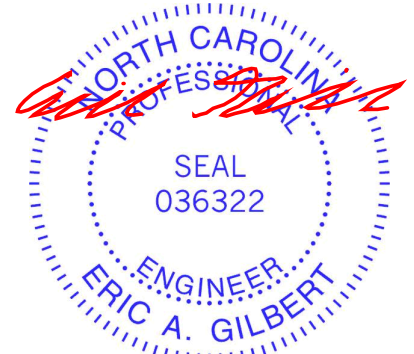
WEBS	9-13=-139/172, 8-14=-149/186, 7-15=-143/178, 5-16=-141/173, 4-17=-151/226, 3-18=-219/394
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NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-8-12 to 3-8-1, Exterior(2N) 3-8-1 to 13-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 11, 21 lb uplift at joint 12, 165 lb uplift at joint 2, 104 lb uplift at joint 13, 117 lb uplift at joint 14, 110 lb uplift at joint 15, 108 lb uplift at joint 16, 122 lb uplift at joint 17 and 279 lb uplift at joint 18.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



May 29,2025

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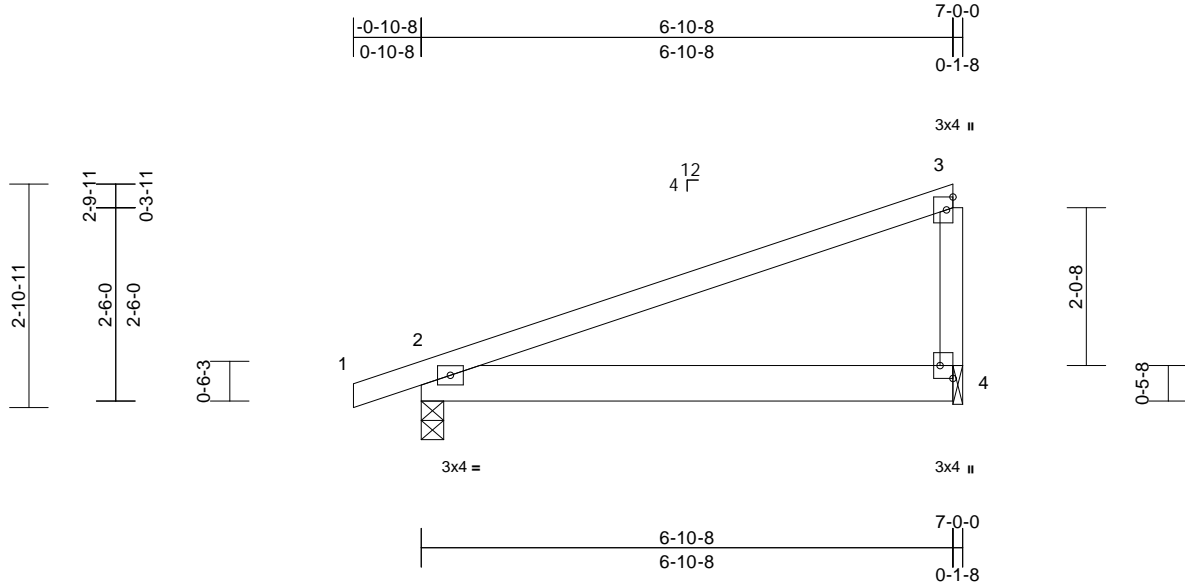
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797698
J0325-1589	M7	MONOPITCH	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21
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Page: 1



Scale = 1:29.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	2-4	>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)	0.09	2-4	>897	240	Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

2=0-3-8, 4=0-1-8
Max Horiz 2=86 (LC 8)
Max Uplift 2=129 (LC 8), 4=114 (LC 8)
Max Grav 2=334 (LC 1), 4=262 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

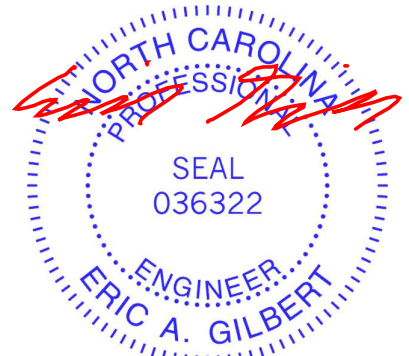
TOP CHORD 1-2=0/9, 2-3=-111/54, 3-4=-195/262
BOT CHORD 2-4=-3/2

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 6-9-15
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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearings are assumed to be: Joint 4 SP No.2 crushing
capacity of 565 psi, Joint 2 SP No.1 crushing capacity of
565 psi.
- 5) 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.

- 6) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 129 lb uplift at
joint 2 and 114 lb uplift at joint 4.

LOAD CASE(S) Standard



May 29,2025

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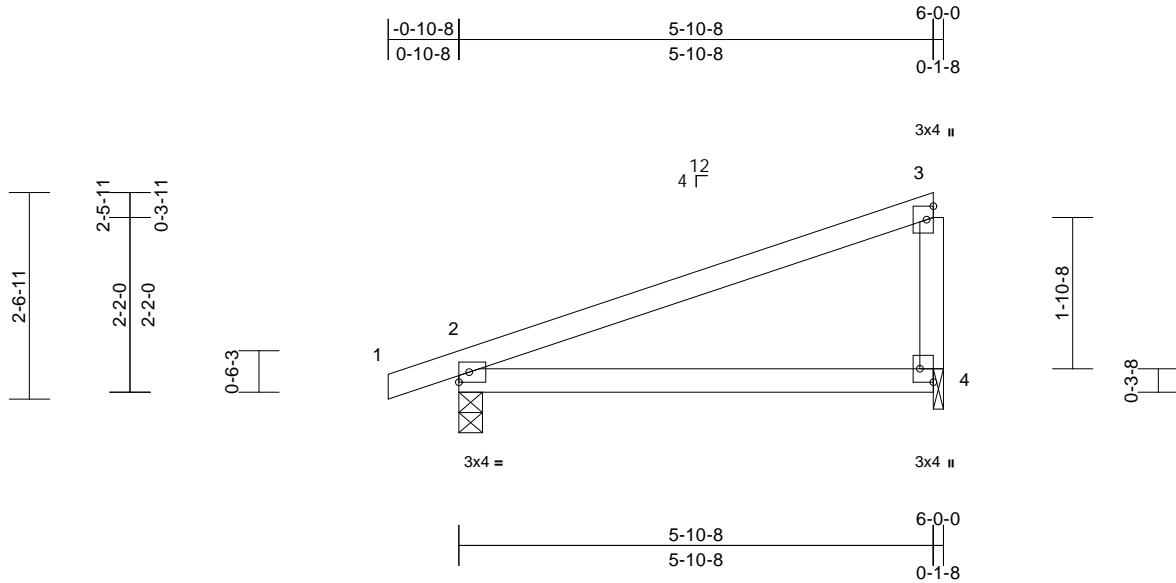
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797699
J0325-1589	M8	GABLE	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21
ID:btRAI72F7f7VJzclHqI7k7zgvFp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:28.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.06	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.11	2-4	>615	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)	0.18	2-4	>375	240	Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 4=0-1-8

Max Horiz 2=74 (LC 8)
Max Uplift 2=115 (LC 8), 4=98 (LC 8)
Max Grav 2=295 (LC 1), 4=221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

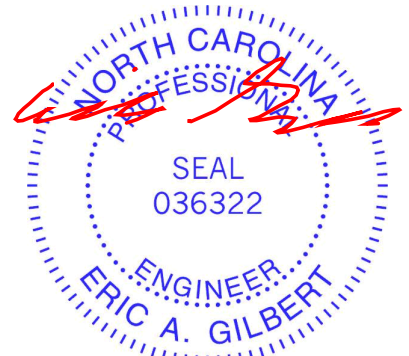
TOP CHORD 1-2=0/5, 2-3=-99/51, 3-4=-164/225
BOT CHORD 2-4=-3/2

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 5-9-15
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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing
capacity of 565 psi, Joint 4 SP No.2 crushing capacity of
565 psi.
- 5) 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.

- 6) Provide mechanical connection (by others) of truss to
bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 115 lb uplift at joint
2 and 98 lb uplift at joint 4.

LOAD CASE(S) Standard



May 29,2025

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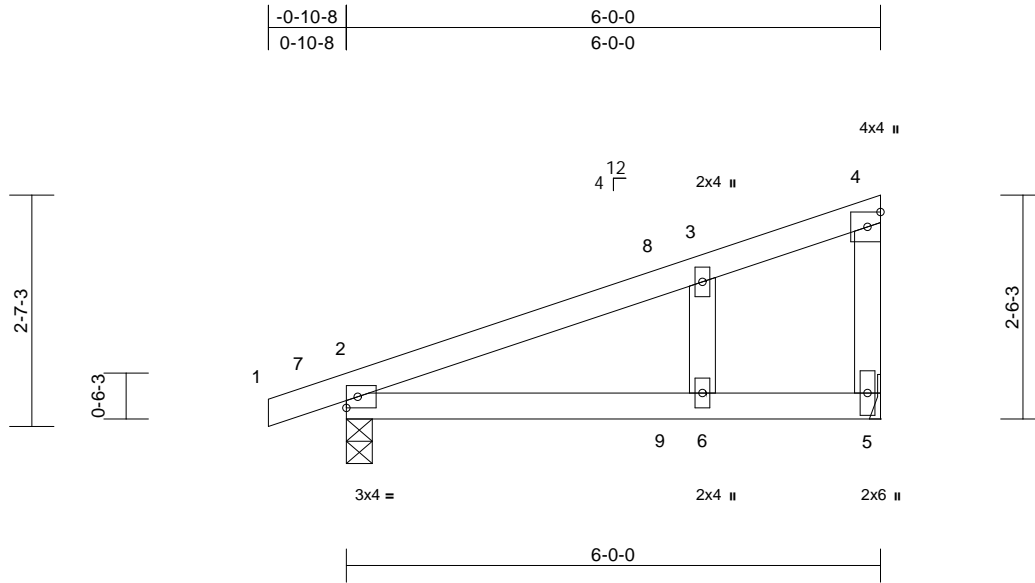
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797700
J0325-1589	M9	Roof Special Structural Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 29 14:28:17
ID:btRAI72F7f7VJzclHq7k7zgvFp-YWn4HXjnPY4QBny0WwN9vgdnmWKEZ2ysNitZJxzBn9i

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.21	2-6	>320	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.11	2-6	>643	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	2=0-3-8, 5= Mechanical
Max Horiz	2=106 (LC 8)
Max Uplift	2=-166 (LC 8), 5=-227 (LC 8)
Max Grav	2=295 (LC 1), 5=774 (LC 1)

FORCES

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

WEBS

4-5=-116/261

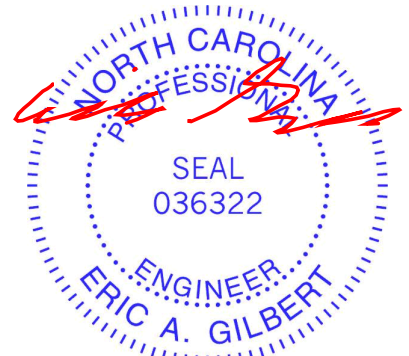
NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 5-10-4 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 studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 166 lb uplift at joint 2 and 227 lb uplift at joint 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 551 lb down and 107 lb up at 5-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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 (lb/ft)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 5=-551 (F)



May 29, 2025

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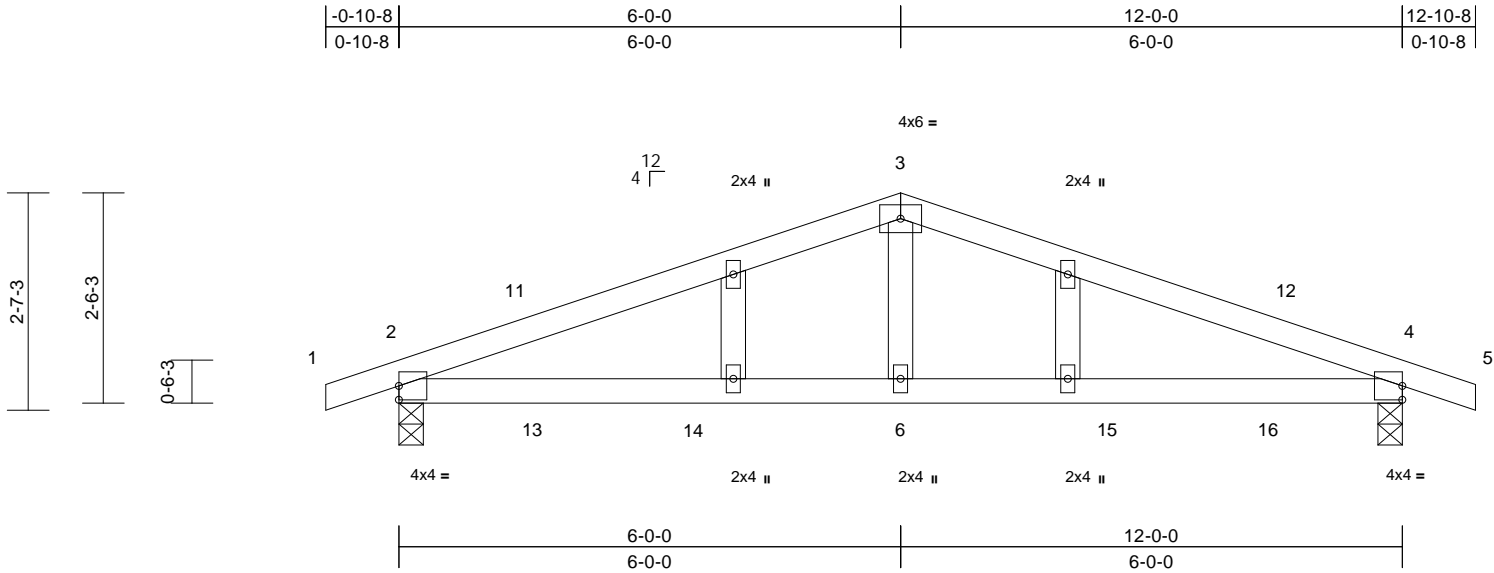
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797701
J0325-1589	P1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:21
ID:btRAI72F7f7VJzclHqi7k7zgVfP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	0.15	2-6	>933	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(LL)	-0.07	4-6	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Vert(CT)	-0.02	4	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Horz(CT)	-0.02				
Weight: 46 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-6-8 oc bracing.

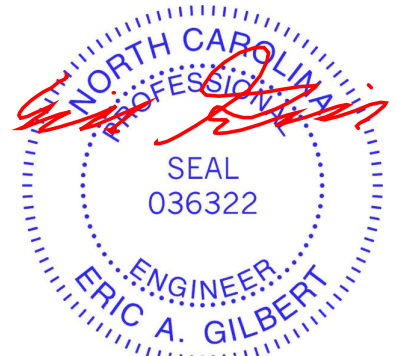
REACTIONS	(size) 2=0-3-8, 4=0-3-8
	Max Horiz 2=46 (LC 12)
	Max Uplift 2=-292 (LC 8), 4=-292 (LC 9)
	Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/5, 2-3=-809/1709, 3-4=-809/1709, 4-5=0/5
BOT CHORD	2-6=-1495/700, 4-6=-1495/700
WEBS	3-6=-707/281

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 2 and 292 lb uplift at joint 4.
- LOAD CASE(S)** Standard



May 29,2025

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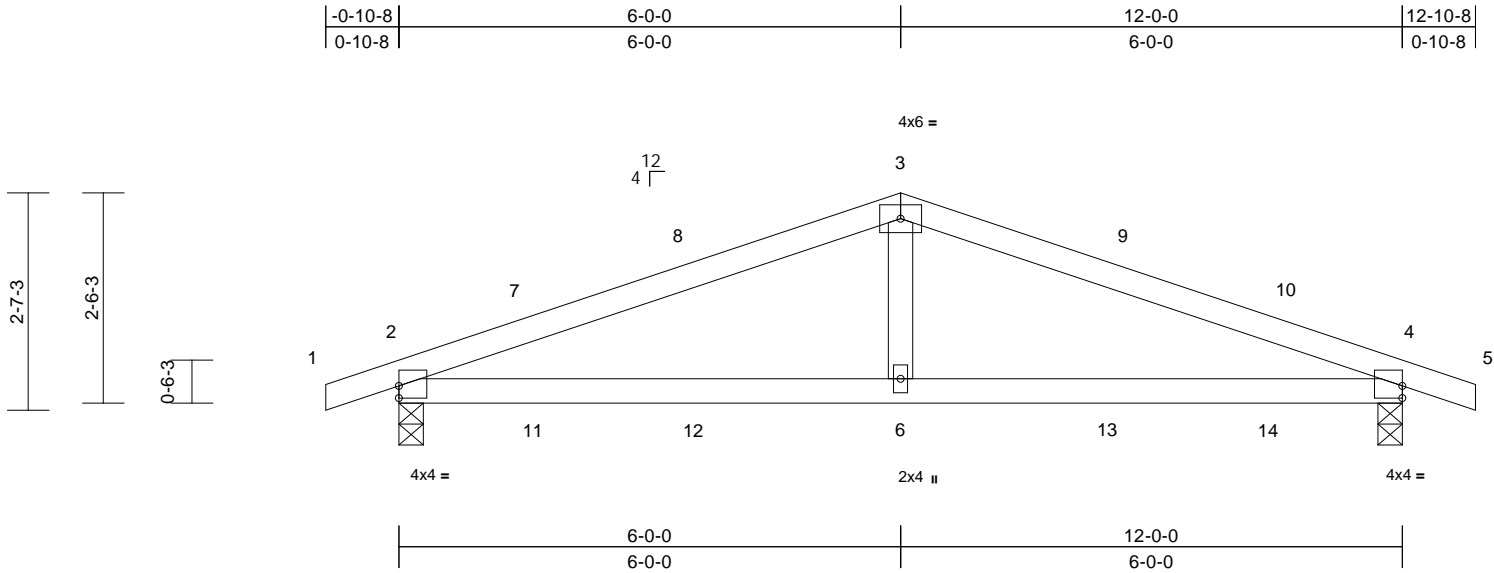
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797702
J0325-1589	P2	COMMON	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22
ID:btRAI72F7f7VJzclHqi7k7zgvFp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:27.6									
Plate Offsets (X, Y): [2:Edge,0-1-12], [4:Edge,0-1-12]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.14	2-6	>999 240
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.07	4-6	>999 240
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.02	4	n/a n/a
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 43 lb		FT = 20%	

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 205 lb uplift at joint 4.

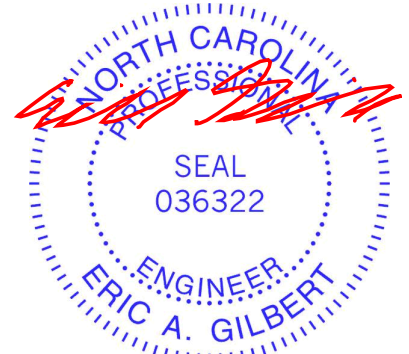
LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-2-14 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-27 (LC 17)
Max Uplift 2=-205 (LC 8), 4=-205 (LC 9)
Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/5, 2-3=-809/1320, 3-4=-809/1320, 4-5=0/5
BOT CHORD 2-6=-1157/700, 4-6=-1157/700
WEBS 3-6=-558/281

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 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
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.



May 29,2025

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818 Soundside Road
Edenton, NC 27932

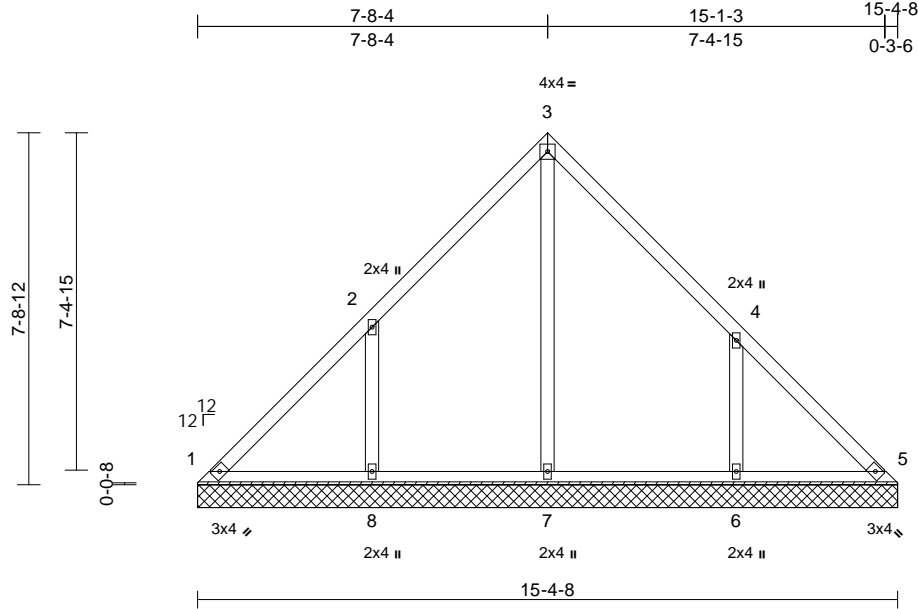
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797703
J0325-1589	VC-1	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22

Page: 1

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Scale = 1:50.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=15-4-8, 5=15-4-8, 6=15-4-8, 7=15-4-8, 8=15-4-8
Max Horiz	1=-177 (LC 8)
Max Uplift	1=-28 (LC 8), 5=-2 (LC 9), 6=-185 (LC 13), 8=-184 (LC 12)
Max Grav	1=183 (LC 20), 5=148 (LC 19), 6=402 (LC 20), 7=212 (LC 22), 8=399 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-175/141, 2-3=-188/155, 3-4=-182/148, 4-5=-137/110
BOT CHORD	1-8=-104/137, 7-8=-104/137, 6-7=-104/137, 5-6=-104/137
WEBS	3-7=-134/7, 2-8=-406/300, 4-6=-414/307

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior (1) 4-9-0 to 7-8-12, Exterior(2R) 7-8-12 to 11-10-8, Interior (1) 11-10-8 to 15-1-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 2 lb uplift at joint 5, 184 lb uplift at joint 8 and 185 lb uplift at joint 6.
- LOAD CASE(S)** Standard



May 29,2025

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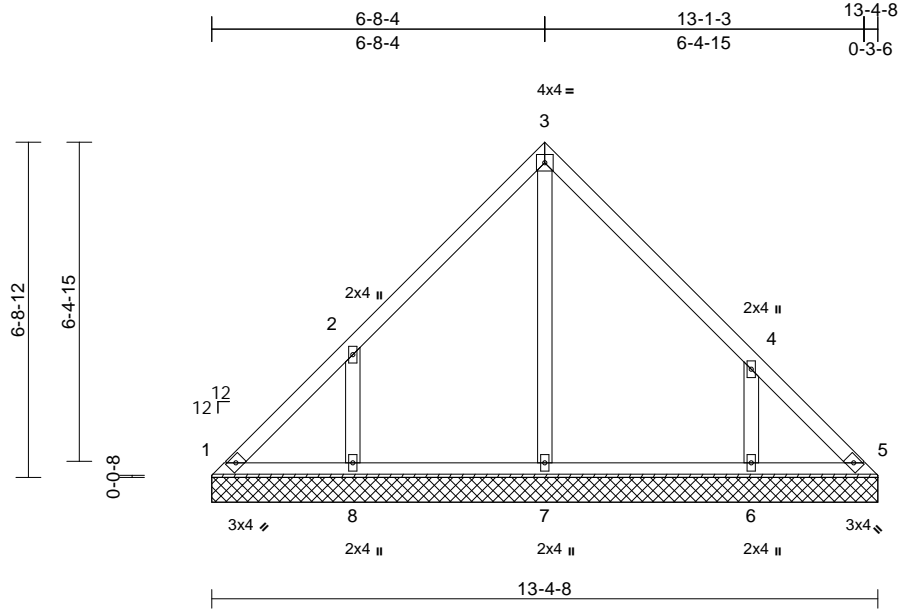
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	
J0325-1589	VC-2	Valley	1	1	Job Reference (optional)	I73797704

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 62 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)	1=13-4-8, 5=13-4-8, 6=13-4-8, 7=13-4-8, 8=13-4-8
Max Horiz	1=-153 (LC 10)
Max Uplift	1=-36 (LC 8), 5=-19 (LC 11), 6=-168 (LC 13), 8=-163 (LC 12)
Max Grav	1=147 (LC 20), 5=111 (LC 19), 6=361 (LC 20), 7=222 (LC 1), 8=347 (LC 19)

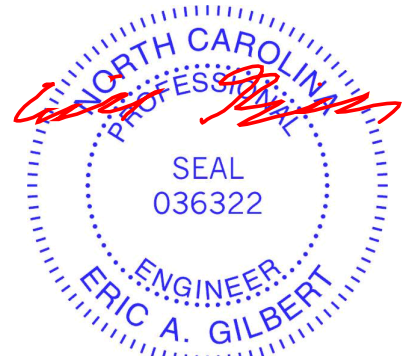
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-158/125, 2-3=-168/133, 3-4=-165/128, 4-5=-128/107
BOT CHORD	1-8=-79/111, 7-8=-79/111, 5-6=-79/111
WEBS	3-7=-138/0, 2-8=-365/272, 4-6=-385/288

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior (1) 4-9-0 to 6-8-12, Exterior(2R) 6-8-12 to 10-10-8, Interior (1) 10-10-8 to 13-1-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 19 lb uplift at joint 5, 163 lb uplift at joint 8 and 168 lb uplift at joint 6.
- LOAD CASE(S)** Standard



May 29,2025

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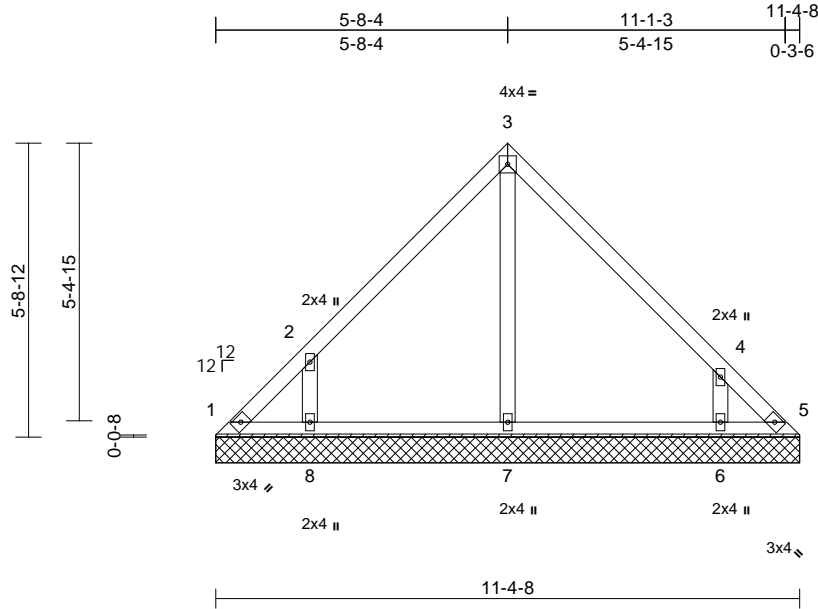
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797705
J0325-1589	VC-3	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 51 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	1=11'-4"-8, 5=11'-4"-8, 6=11'-4"-8, 7=11'-4"-8, 8=11'-4"-8
	Max Horiz	1=-129 (LC 8)
	Max Uplift	1=-65 (LC 10), 5=-79 (LC 11), 6=-172 (LC 13), 8=-154 (LC 12)
	Max Grav	1=110 (LC 9), 5=108 (LC 13), 6=362 (LC 20), 7=223 (LC 1), 8=323 (LC 19)

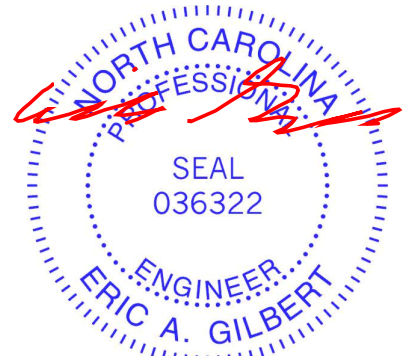
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-151/119, 2-3=-160/112, 3-4=-157/108, 4-5=-156/140
BOT CHORD	1-8=-56/86, 7-8=-56/86, 5-6=-56/86
WEBS	3-7=-137/0, 2-8=-355/268, 4-6=-406/308

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior (1) 4-9-0 to 5-8-12, Exterior(2R) 5-8-12 to 9-10-8, Interior (1) 9-10-8 to 11-1-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4'-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 0.0psf on the bottom chord in all areas where a rectangle 0'-0" tall by 0'-0" wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 79 lb uplift at joint 5, 154 lb uplift at joint 8 and 172 lb uplift at joint 6.
- LOAD CASE(S)** Standard



May 29, 2025

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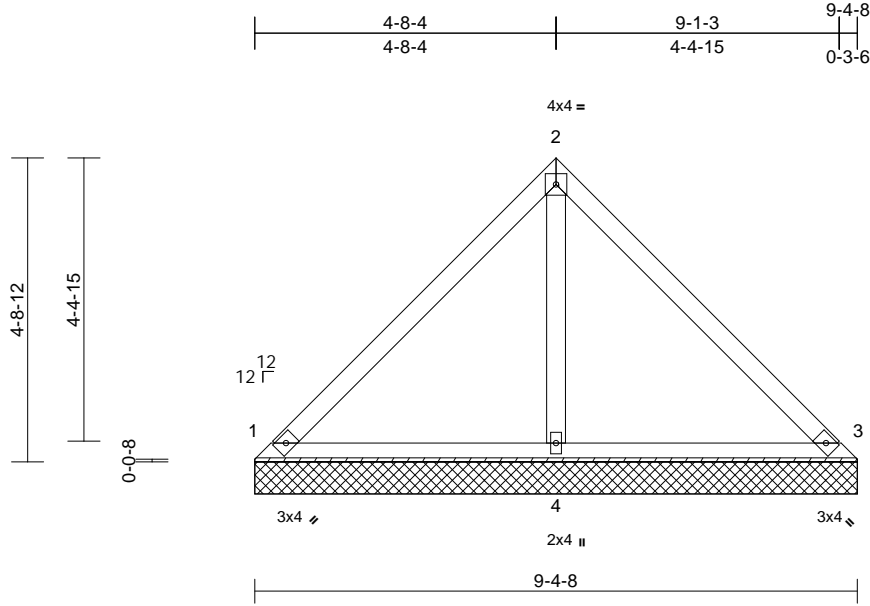
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797706
J0325-1589	VC-4	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22
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Scale = 1:35.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=9-4-8, 3=9-4-8, 4=9-4-8
Max Horiz	1=105 (LC 11)
Max Uplift	1=-26 (LC 13), 3=-26 (LC 13)
Max Grav	1=199 (LC 1), 3=199 (LC 1), 4=303 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

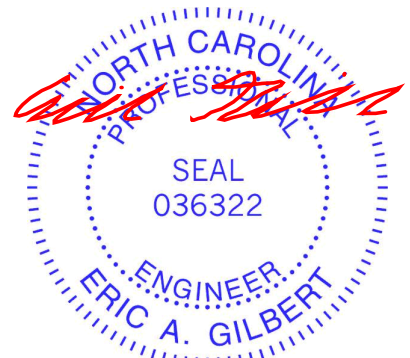
TOP CHORD	1-2=-174/101, 2-3=-164/125
BOT CHORD	1-4=-27/77, 3-4=-27/77
WEBS	2-4=-172/116

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 26 lb uplift at joint 3.

LOAD CASE(S) Standard



May 29, 2025

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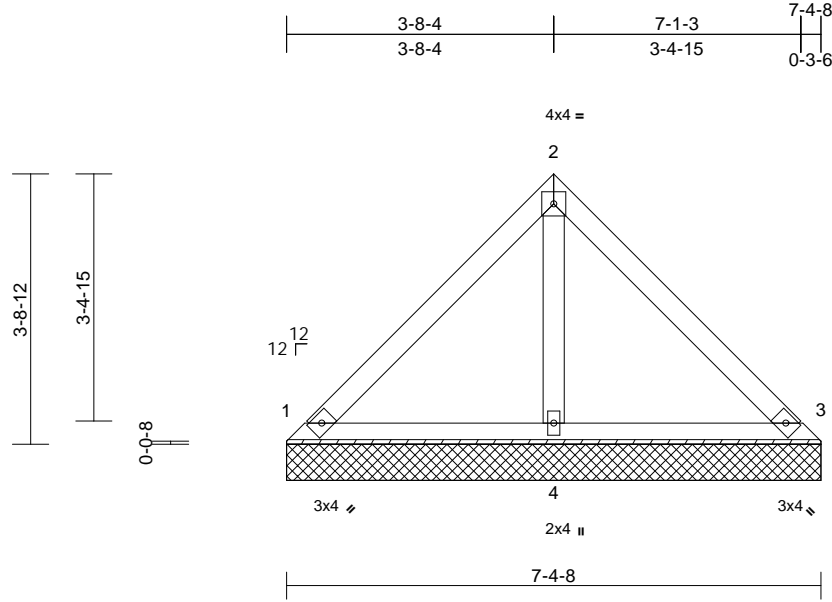
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797707
J0325-1589	VC-5	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 28 12:12:22
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=7-4-8, 3=7-4-8, 4=7-4-8
Max Horiz	1=-81 (LC 8)
Max Uplift	1=-29 (LC 13), 3=-29 (LC 13)
Max Grav	1=165 (LC 1), 3=165 (LC 1), 4=211 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

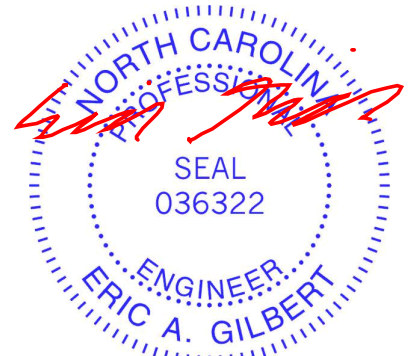
TOP CHORD	1-2=-123/60, 2-3=-111/60
BOT CHORD	1-4=-23/55, 3-4=-23/55
WEBS	2-4=-127/47

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 29 lb uplift at joint 3.

LOAD CASE(S) Standard



May 29,2025

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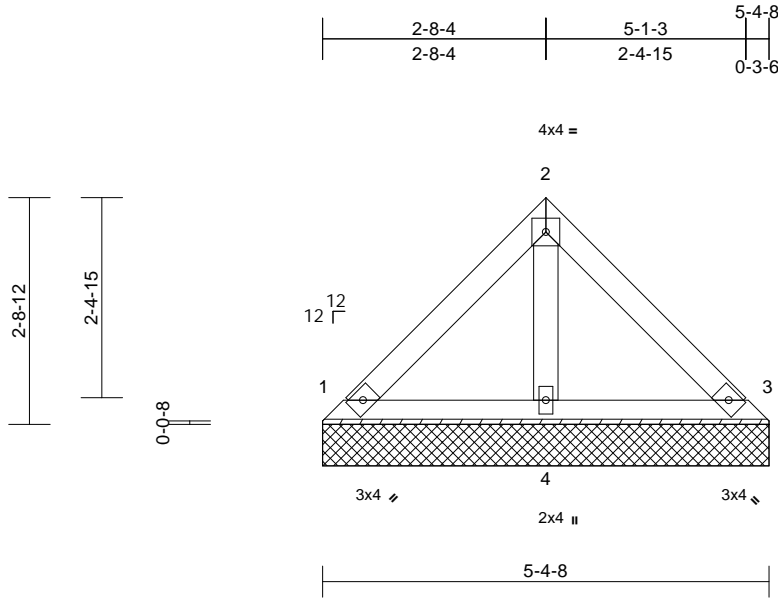
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing	173797708
J0325-1589	VC-6	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=5-4-8, 3=5-4-8, 4=5-4-8
Max Horiz 1=-57 (LC 8)
Max Uplift 1=-21 (LC 13), 3=-21 (LC 13)
Max Grav 1=116 (LC 1), 3=116 (LC 1), 4=149 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

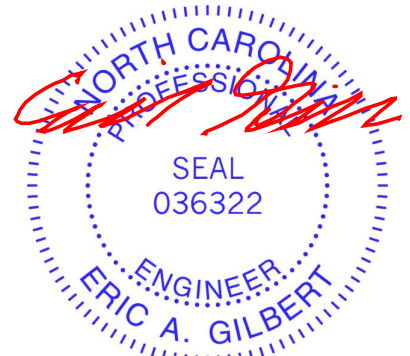
TOP CHORD 1-2=-87/67, 2-3=-78/85
BOT CHORD 1-4=-16/46, 3-4=-16/46
WEBS 2-4=-89/80

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=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard



May 29,2025

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

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Edenton, NC 27932

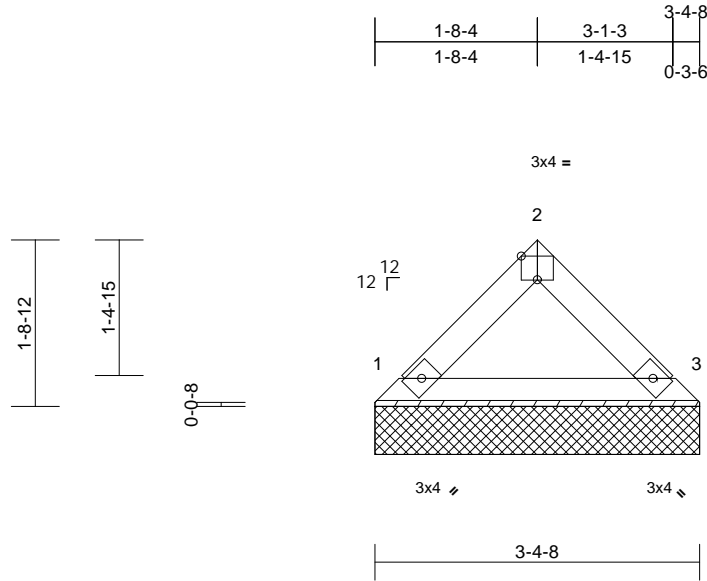
Job	Truss	Truss Type	Qty	Ply	Lot 24 Ducks Landing
J0325-1589	VC-7	Valley	1	1	Job Reference (optional)

I73797709

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:24

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							
										Weight: 11 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.

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

REACTIONS (size) 1=3-4-8, 3=3-4-8

Max Horiz 1=33 (LC 9)

Max Uplift 1=-4 (LC 13), 3=-4 (LC 12)

Max Grav 1=110 (LC 1), 3=110 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-82/40, 2-3=-82/40

BOT CHORD 1-3=-8/47

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 3.

LOAD CASE(S) Standard

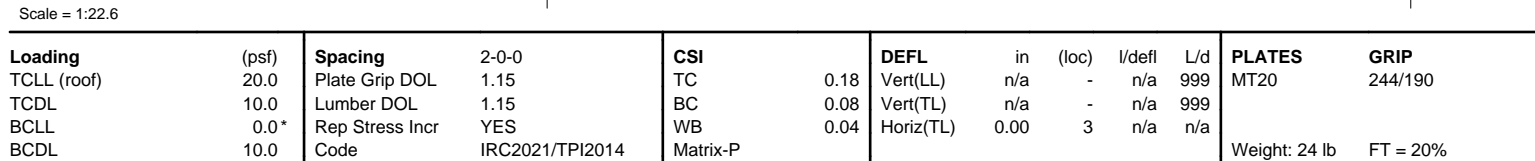
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- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 23 lb uplift at joint 3.

LOAD CASE(S) Standard

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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

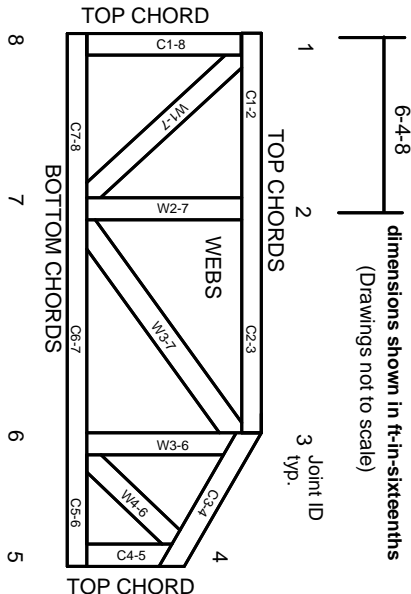


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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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