

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0725-3561
Lot 25 Duck 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: I75050359 thru I75050368

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

North Carolina COA: C-0844



July 22, 2025

Gilbert, Eric

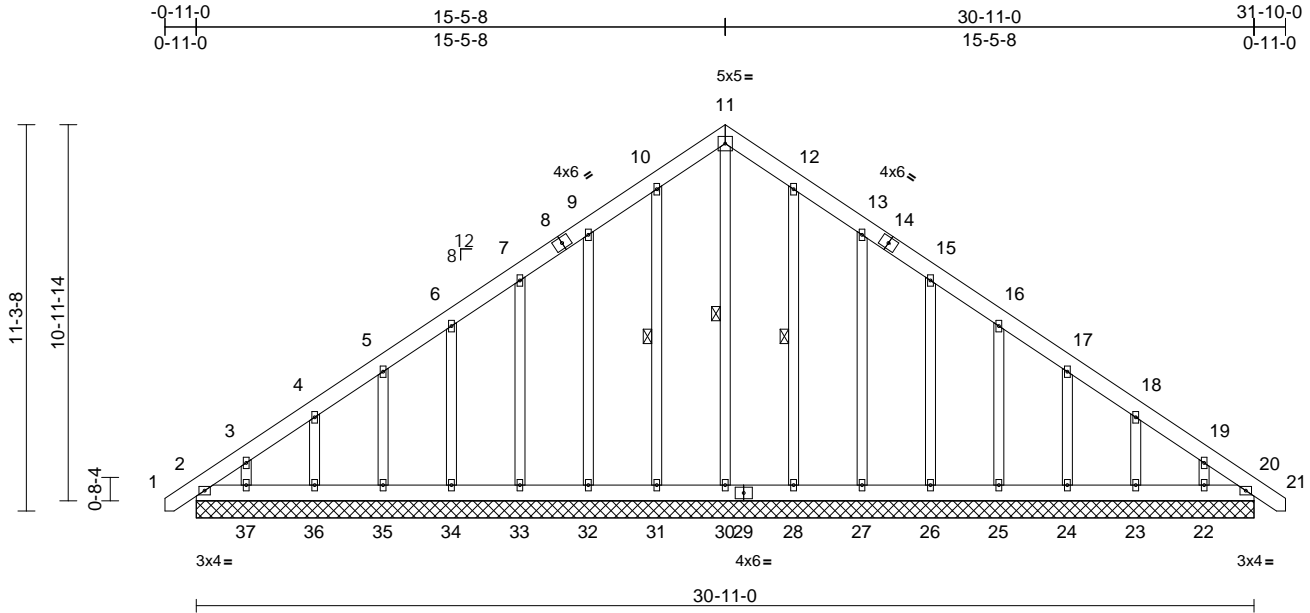
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 25 Duck Landing
J0725-3561	A01GE	Common Supported Gable	1	1	Job Reference (optional)
					I75050359

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Tue Jul 22 09:45:02
ID:ewoLO_bcHUPza96FpEaJgQyxY6y-uw1bcQFsYA7sz0KFJsg7?qdEV_APfgteEuyJUyvj9H

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 279 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.
WEBS 1 Row at midpt 11-30, 10-31, 12-28

REACTIONS

All bearings 30-11-0.
(lb) - Max Horiz 2=-325 (LC 10), 38=-325 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s)
20, 23, 24, 25, 26, 28, 31, 32, 33,
34, 35, 36, 42 except 2=-104 (LC
8), 22=-112 (LC 13), 27=-103 (LC
13), 37=-122 (LC 12), 38=-104 (LC
8)
Max Grav All reactions 250 (lb) or less at joint
(s) 2, 20, 22, 23, 24, 25, 26, 27, 28,
30, 31, 32, 33, 34, 35, 36, 37, 38,
42

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-334/244, 3-4=-267/218,
10-11=-174/275, 11-12=-174/275,
19-20=-258/133
BOT CHORD 2-37=-148/253, 36-37=-115/253,
35-36=-115/253, 34-35=-115/253,
33-34=-115/253, 32-33=-115/253,
31-32=-115/253, 30-31=-115/253,
29-30=-115/253, 28-29=-115/253,
27-28=-115/253, 26-27=-115/253,
25-26=-115/253, 24-25=-115/253,
23-24=-115/253, 22-23=-115/253,
20-22=-115/253

NOTES

1) 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) -0-9-7 to 2-3-11, Exterior(2N)
2-3-11 to 15-5-8, Corner(3R) 15-5-8 to 18-6-10, Exterior
(2N) 18-6-10 to 31-8-7 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.
- 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.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 100 lb uplift at
joint(s) 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23, 20, 20
except (jt=lb) 2=103, 37=122, 27=102, 22=112, 2=103.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



July 22, 2025

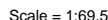
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Jul 21 11:36:51 Page: 1
ID:IV2JTuxoSO3rYcqa?ab6LXyxY6V-RfC?PsB70Hg3NSaPanL8w3ulTXbGKWRcDoi7J4zJC?f



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.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=325 (LC 11)
Max Uplift 2=261 (LC 12), 8=261 (LC 13)
Max Grav 2=1605 (LC 19), 8=1605 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-2154/357, 3-5=-2039/459,
5-7=-2040/459, 7-8=-2154/357, 8-9=0/26
BOT CHORD 2-12=-353/1951, 10-12=-70/1271,
8-10=-157/1730
WEBS 3-12=-493/389, 5-12=-265/1087,
5-10=-266/1088, 7-10=-494/390

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 2 and 261 lb uplift at joint 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

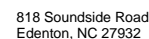
LOAD CASE(S) Standard

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) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 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.



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

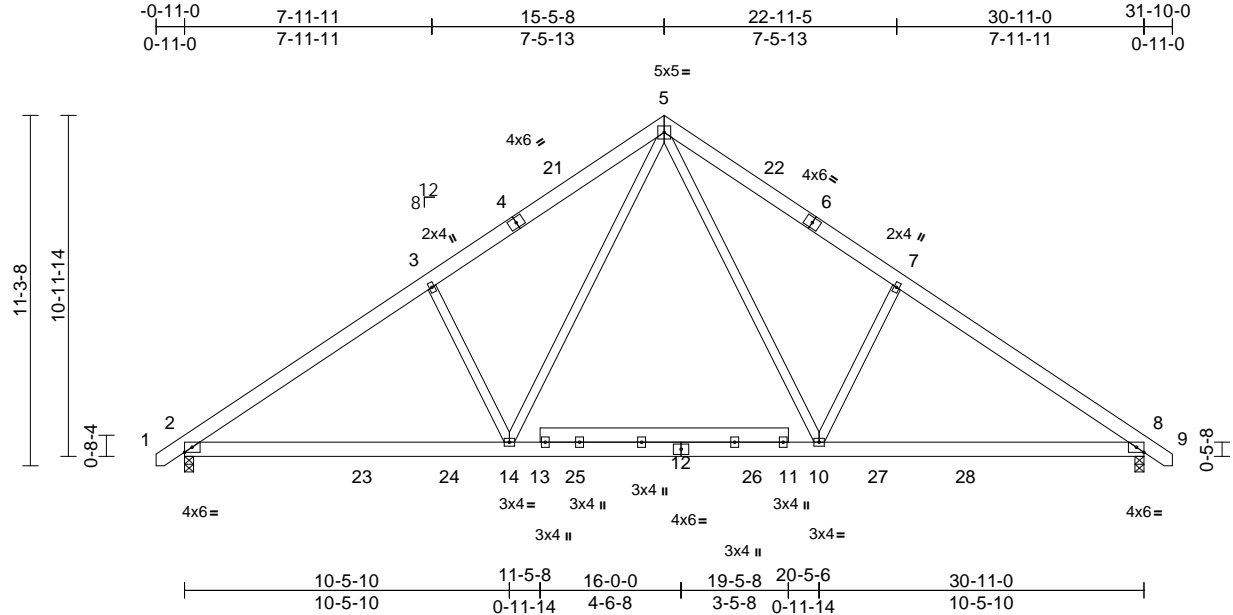


Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing	
J0725-3561	A03	Common	6	1	Job Reference (optional)	I75050361

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Jul 21 11:36:51
ID:IV2JTuxoSO3rYcq?qb6LXyxY6V-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

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	0.21	Vert(LL)	-0.10	14-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.17	14-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	14-17	>999	240	Weight: 234 lb	FT = 25%

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.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=325 (LC 11)
Max Uplift 2=-261 (LC 12), 8=-261 (LC 13)
Max Grav 2=1598 (LC 19), 8=1598 (LC 20)

FORCES

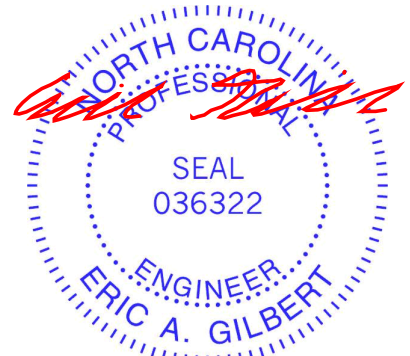
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-2135/359, 3-5=-2021/461,
5-7=-2021/461, 7-8=-2135/359, 8-9=0/26
BOT CHORD 2-14=-354/1937, 10-14=-75/1260,
8-10=-158/1716
WEBS 3-14=-496/388, 5-14=-267/1076,
5-10=-267/1077, 7-10=-497/389

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 Exterior(2E) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 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 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.
- 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 261 lb uplift at joint 2 and 261 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



July 22, 2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

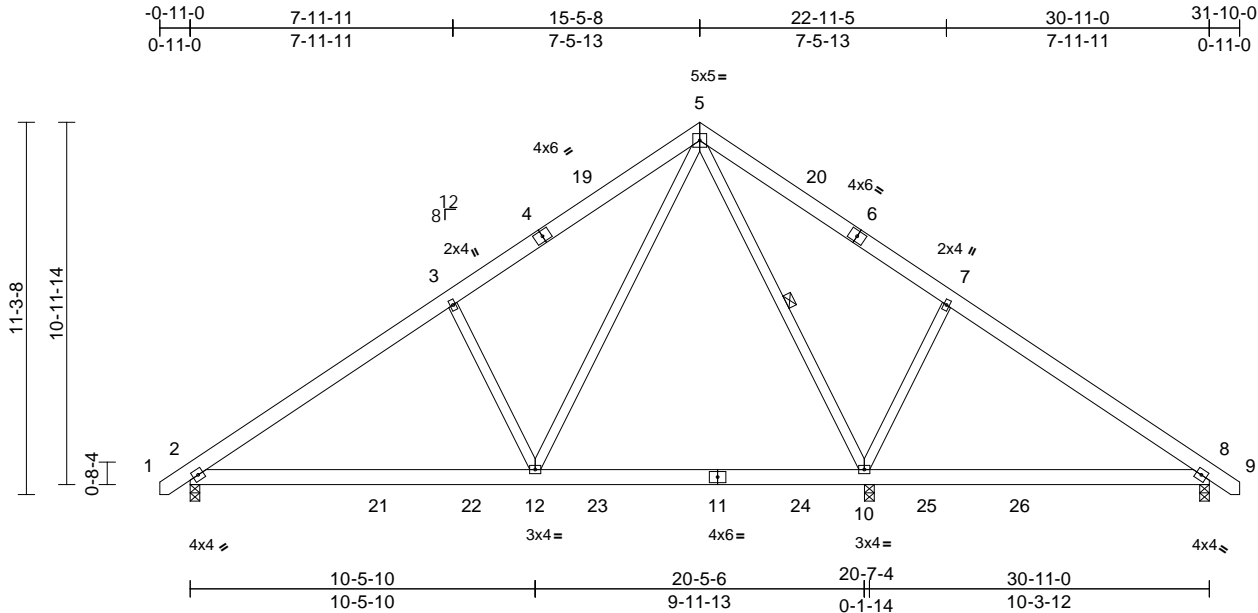
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing
J0725-3561	A04	Common	2	1	Job Reference (optional)
					I75050362

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Jul 21 11:36:51
ID:Ym9ZVbTmKbTIDdc51MtCbbyxY5q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Page: 1



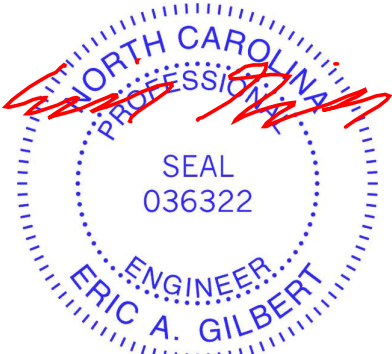
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	12-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	12-15	>999	240	Weight: 215 lb	FT = 25%

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.	
BOT CHORD	Structural wood sheathing directly applied.	
WEBS	1 Row at midpt 5-10	
REACTIONS		
(size)	2=0-3-8, 8=0-3-8, 10=0-3-8	
Max Horiz	2=325 (LC 11)	
Max Uplift	2=-194 (LC 12), 8=-112 (LC 13), 10=-225 (LC 13)	
Max Grav	2=1090 (LC 19), 8=579 (LC 20), 10=1550 (LC 20)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/26, 2-3=-1254/236, 3-5=-1143/342, 5-7=-269/203, 7-8=-383/99, 8-9=0/26	
BOT CHORD	2-12=-256/1210, 10-12=-53/511, 8-10=-20/295	
WEBS	3-12=-517/393, 5-12=-268/1107, 5-10=-792/182, 7-10=-538/396	

- 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) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 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 194 lb uplift at joint 2, 112 lb uplift at joint 8 and 225 lb uplift at joint 10.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



July 22,2025

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)



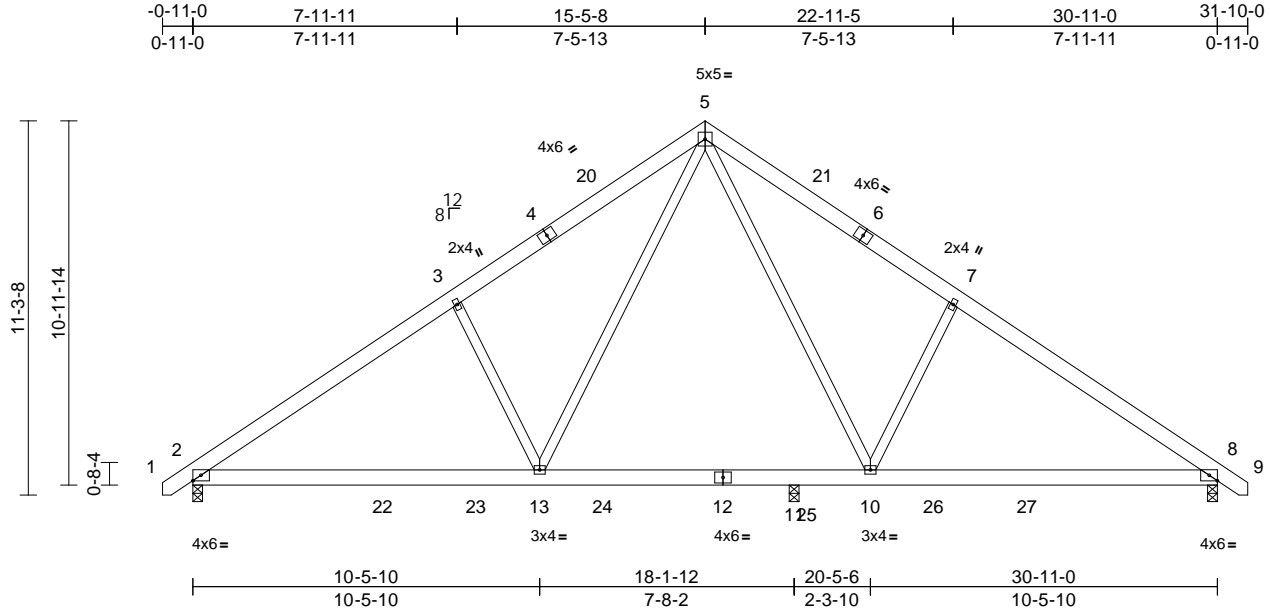
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing	I75050363
J0725-3561	A05	Common	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. Mon Jul 21 11:36:51
ID:MB2GKTIbvgNUTitWthnb0SyxY5T-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

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	0.22	Vert(LL)	-0.13	10-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.23	10-19	>678	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	10-19	>999	240	Weight: 215 lb	FT = 25%

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.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS

(size) 2=0-3-8, 8=0-3-8, 11=0-3-8
Max Horiz 2=325 (LC 11)
Max Uplift 2=-254 (LC 12), 8=-256 (LC 13),
11=-16 (LC 12)
Max Grav 2=1429 (LC 19), 8=1360 (LC 20),
11=425 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

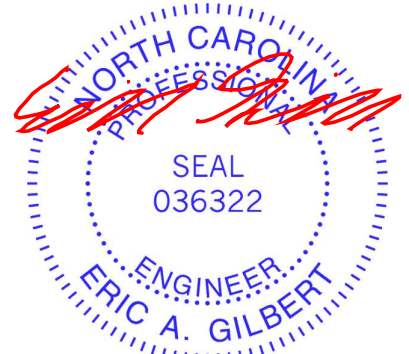
TOP CHORD 1-2=0/26, 2-3=-1822/344, 3-5=-1710/447,
5-7=-1571/450, 7-8=-1682/344, 8-9=0/26
BOT CHORD 2-13=-343/1682, 11-13=-62/1035,
10-11=-62/1035, 8-10=-142/1342
WEBS 3-13=-512/390, 5-13=-262/991,
5-10=-258/708, 7-10=-524/390

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 Exterior(2E) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 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 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.

- 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 254 lb uplift at joint 2, 256 lb uplift at joint 8 and 16 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



July 22,2025

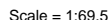
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Tue Jul 22 09:48:55 Page: 1
ID:Uzscdji6ru9E4MAHd?KdEnvxY5?-V8kRwn5GCNkWf7oQaiQE0OsMUIHfprbThJJu2Mvvi5c

LOAD CASE(S) Standard

July 22, 2025

Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

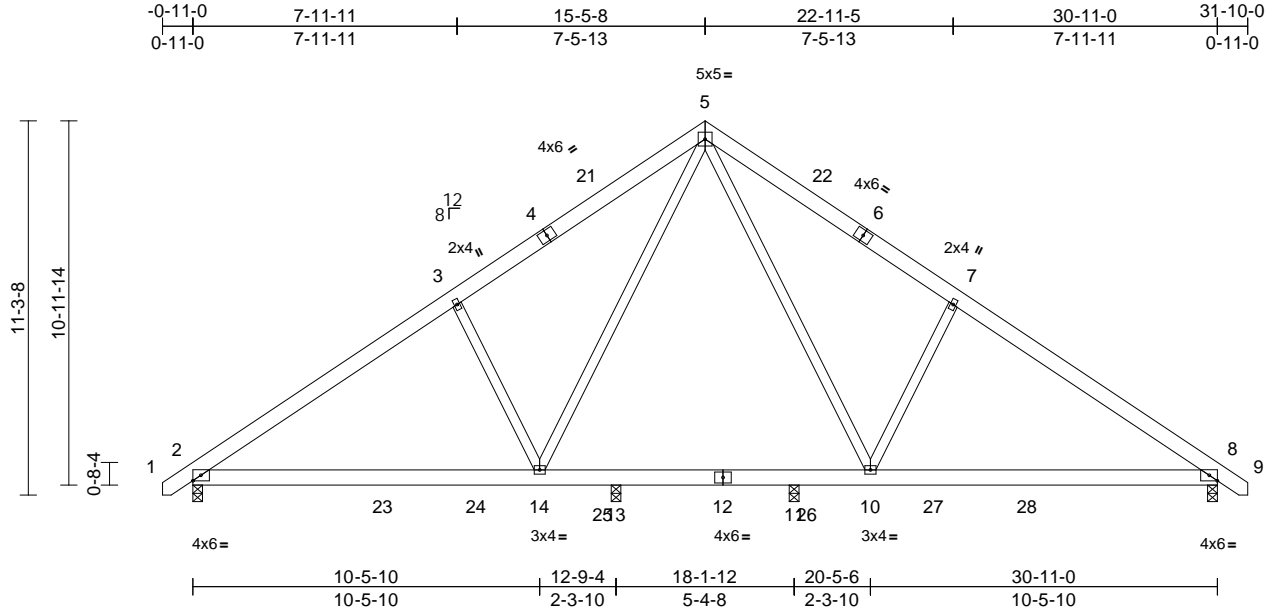
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing
J0725-3561	A07	Common	3	1	175050365
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. Mon Jul 21 11:36:51
ID:vp39pZLZ71gOTRi7oBgJ2?yxY4h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	0.22	Vert(LL)	-0.13	10-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22	10-20	>695	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	14-17	>999	240	Weight: 215 lb	FT = 25%

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.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 11=0-3-8, 13=0-3-8
Max Horiz 2=325 (LC 11)
Max Uplift 2=-249 (LC 12), 8=-256 (LC 13), 11=-11 (LC 13), 13=-19 (LC 12)
Max Grav 2=1346 (LC 19), 8=1354 (LC 20), 11=258 (LC 20), 13=266 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-1658/338, 3-5=-1548/435, 5-7=-1564/450, 7-8=-1674/344, 8-9=0/26
BOT CHORD 2-14=-333/1551, 13-14=-58/985, 11-13=-58/985, 10-11=-58/985, 8-10=-141/1334
WEBS 3-14=-524/391, 5-14=-248/789, 5-10=-256/799, 7-10=-523/390

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 Exterior(2E) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 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 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.

- 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 249 lb uplift at joint 2, 256 lb uplift at joint 8, 19 lb uplift at joint 13 and 11 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



July 22,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

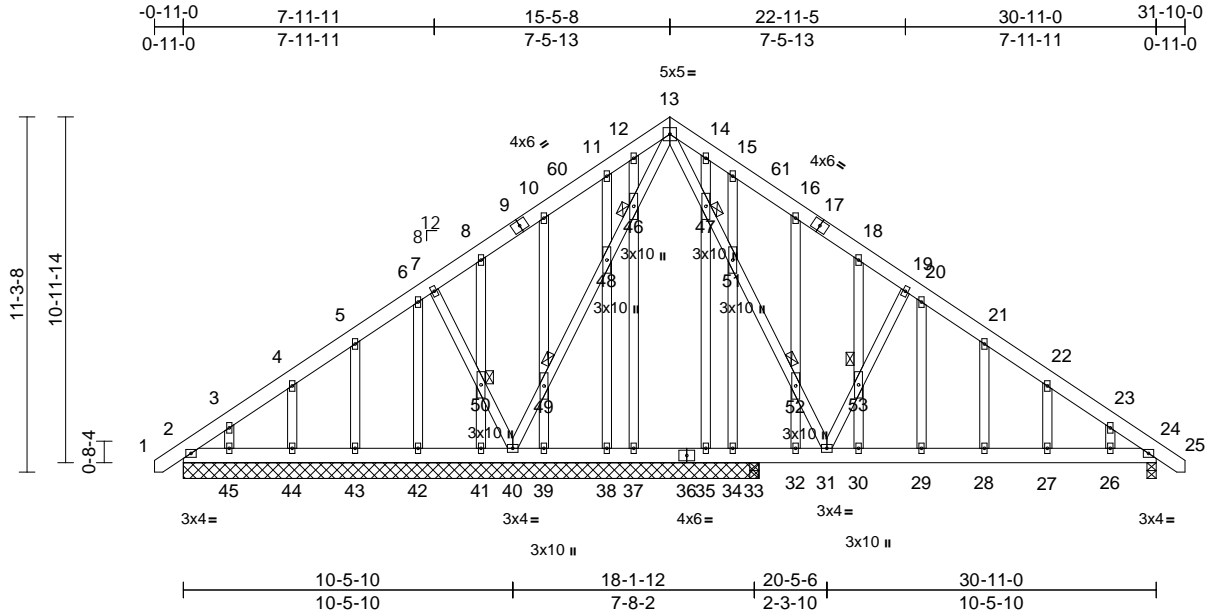
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing	I75050366
J0725-3561	A08GE	Common Structural Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Jul 21 11:36:52

Page: 1

ID: gRfumYGEENFcb6Vkf92870yxY3V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWmCDoi7J4zJC?f



Scale = 1:73.2

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	0.19	Vert(LL)	-0.03	27-28	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.07	27-28	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	27-28	>999	240	Weight: 341 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.
JOINTS	1 Brace at Jt(s): 46, 47, 49, 50, 52, 53

REACTIONS

(size)	2=18-3-8, 24=0-3-8, 33=0-3-8, 34=18-3-8, 35=18-3-8, 37=18-3-8, 38=18-3-8, 39=18-3-8, 40=18-3-8, 41=18-3-8, 42=18-3-8, 43=18-3-8, 44=18-3-8, 45=18-3-8, 54=18-3-8
Max Horiz	2=-325 (LC 10), 54=-325 (LC 10)
Max Uplift	2=-95 (LC 8), 24=-149 (LC 13), 33=-248 (LC 13), 34=-306 (LC 20), 38=-59 (LC 12), 39=-108 (LC 12), 40=-27 (LC 12), 41=-52 (LC 12), 43=-88 (LC 12), 44=-86 (LC 12), 45=-114 (LC 12), 54=-95 (LC 8)
Max Grav	2=157 (LC 20), 24=596 (LC 1), 33=646 (LC 20), 34=90 (LC 13), 35=235 (LC 1), 37=179 (LC 1), 38=135 (LC 19), 39=160 (LC 19), 40=195 (LC 1), 41=139 (LC 19), 42=107 (LC 25), 43=176 (LC 19), 44=179 (LC 19), 45=177 (LC 19), 54=157 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
--	--

TOP CHORD

1-2=0/26, 2-3=-278/233, 3-4=-214/208, 4-5=-162/179, 5-6=-132/153, 6-7=-111/143, 7-8=-106/152, 8-10=-88/182, 10-11=-94/228, 11-12=-119/253, 12-13=-156/252, 13-14=-378/354, 14-15=-334/336, 15-16=-283/277, 16-18=-257/207, 18-19=-337/192, 19-20=-270/143, 20-21=-475/192, 21-22=-502/134, 22-23=-541/80, 23-24=-555/36, 24-25=0/26

BOT CHORD

2-45=-166/243, 44-45=-157/243, 43-44=-157/243, 42-43=-157/243, 41-42=-157/243, 40-41=-157/243, 39-40=-132/282, 38-39=-132/282, 37-38=-132/282, 35-37=-132/282, 34-35=-132/282, 33-34=-132/282, 32-33=-132/282, 31-32=-132/282, 30-31=0/413, 29-30=0/413, 28-29=0/413, 27-28=0/413, 26-27=0/413, 24-26=0/413

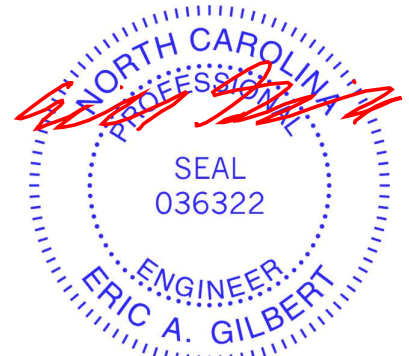
WEBS

7-50=-85/94, 40-50=-94/103, 40-49=-136/0, 48-49=-123/0, 46-48=-125/0, 13-46=-137/0, 13-47=-246/416, 47-51=-225/382, 51-52=-226/386, 31-52=-244/418, 31-53=-669/337, 19-53=-621/314, 12-46=-140/13, 37-46=-155/8, 14-47=-154/18, 35-47=-121/0, 11-48=-106/75, 38-48=-107/73, 10-49=-134/124, 39-49=-123/130, 8-50=-114/84, 41-50=-105/73, 6-42=-65/22, 5-43=-136/111, 4-44=-141/115, 3-45=-121/105, 15-51=-156/97, 34-51=-162/98, 16-52=-104/100, 32-52=-138/120, 18-53=0/118, 30-53=-23/155, 20-29=-95/270, 21-28=-70/78, 22-27=-58/74, 23-26=-47/57

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) -0-9-7 to 2-3-11, Interior (1) 2-3-11 to 15-5-8, Exterior(2R) 15-5-8 to 18-6-10, Interior (1) 18-6-10 to 31-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable 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.



July 22, 2025

Continued on page 2

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)

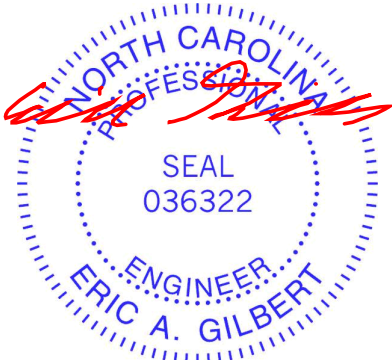
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing
J0725-3561	A08GE	Common Structural Gable	1	1	I75050366
					Job Reference (optional)

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2, 149 lb uplift at joint 24, 27 lb uplift at joint 40, 59 lb uplift at joint 38, 108 lb uplift at joint 39, 52 lb uplift at joint 41, 88 lb uplift at joint 43, 86 lb uplift at joint 44, 114 lb uplift at joint 45, 306 lb uplift at joint 34, 248 lb uplift at joint 33 and 95 lb uplift at joint 2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



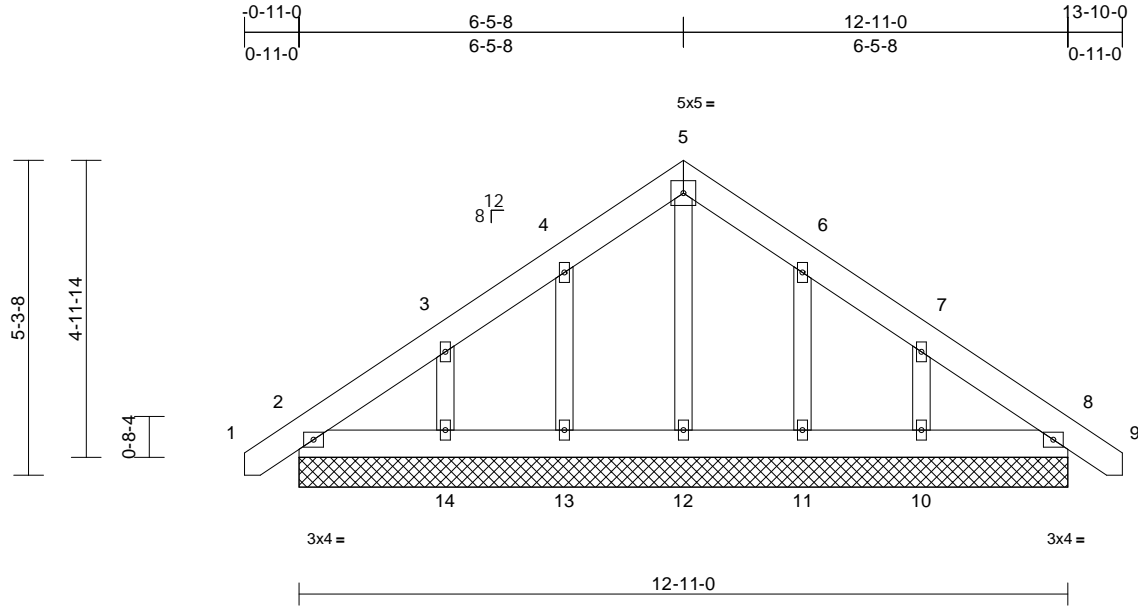
July 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duck Landing	
J0725-3561	B01GE	Common Supported Gable	1	1	Job Reference (optional)	I75050367

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Mon Jul 21 11:36:52
ID:4wEK7KUSYP3ql71Ey?Nu?JyxY4W-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.7

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	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 91 lb FT = 25%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Structural wood sheathing directly applied.

REACTIONS (size) 2=12-11-0, 8=12-11-0, 10=12-11-0,
11=12-11-0, 12=12-11-0,
13=12-11-0, 14=12-11-0,
15=12-11-0, 19=12-11-0
Max Horiz 2=145 (LC 11), 15=145 (LC 11)
Max Uplift 2=23 (LC 13), 8=6 (LC 13),
10=122 (LC 13), 11=69 (LC 13),
13=71 (LC 12), 14=123 (LC 12),
15=23 (LC 13), 19=6 (LC 13)
Max Grav 2=159 (LC 1), 8=159 (LC 1),
10=220 (LC 20), 11=165 (LC 20),
12=132 (LC 22), 13=167 (LC 19),
14=223 (LC 19), 15=159 (LC 1),
19=159 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-115/89, 3-4=-104/91,
4-5=-104/175, 5-6=-104/175, 6-7=-71/92,
7-8=-75/43, 8-9=0/26

BOT CHORD 2-14=-61/142, 13-14=-43/142,
12-13=-43/142, 11-12=-43/142,
10-11=-43/142, 8-10=-43/142

WEBS 5-12=-90/0, 4-13=-136/127, 3-14=-155/191,
6-11=-133/128, 7-10=-155/191

NOTES

1) 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) -0-9-7 to 2-5-8, Exterior(2N) 2-5-8 to 6-5-8, Corner(3R) 6-5-8 to 9-5-8, Exterior(2N) 9-5-8 to 13-8-7 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.
- 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 23 lb uplift at joint 2, 6 lb uplift at joint 8, 71 lb uplift at joint 13, 123 lb uplift at joint 14, 69 lb uplift at joint 11, 122 lb uplift at joint 10, 23 lb uplift at joint 2 and 6 lb uplift at joint 8.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 15.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



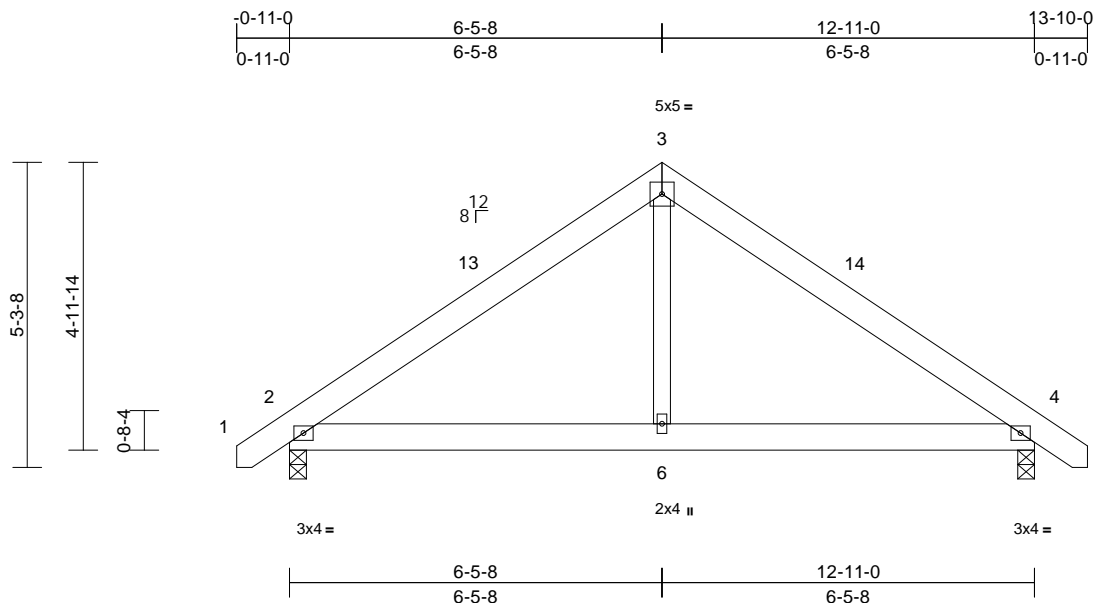
July 22,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932



Scale = 1:39.9

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	0.13	Vert(LL)	-0.01	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	6-9	>999	240	Weight: 78 lb	FT = 25%

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.
BOT CHORD	Structural wood sheathing directly applied.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
 Max Horiz 2=145 (LC 11)
 Max Uplift 2=-122 (LC 12), 4=-122 (LC 13)
 Max Grav 2=564 (LC 1), 4=564 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-610/204, 3-4=-610/204,
4-5=0/26

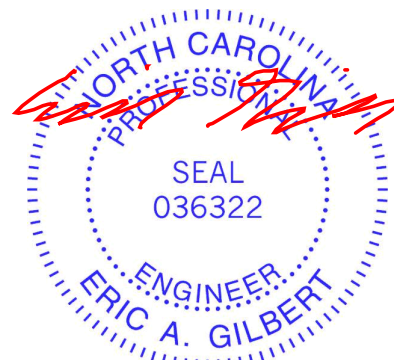
BOT CHORD 2-6=-93/441, 4-6=-52/441
WEBS 3-6=0/288

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) exterior zone and C-C Exterior(2E) -0-9-7 to 2-2-9, Interior (1) 2-2-9 to 6-5-8, Exterior(2R) 6-5-8 to 9-5-8, Interior (1) 9-5-8 to 13-8-7 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.
- 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 122 lb uplift at joint 2 and 122 lb uplift at joint 4.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



July 22, 2025



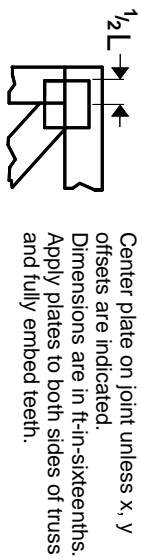
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

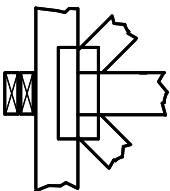
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

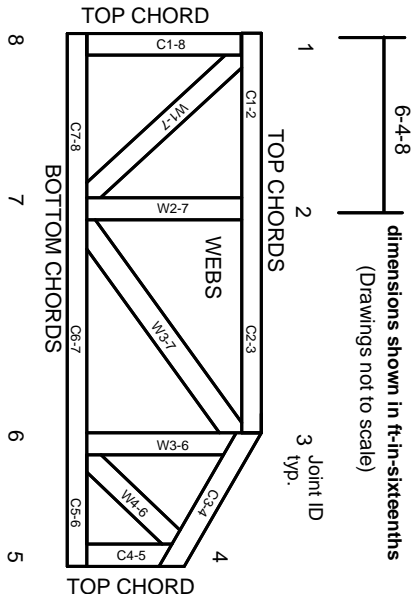


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

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.

MITek®

ENGINEERING BY
TRENCO
A MITek Affiliate

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