

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1350
Lot 3 Mabry Ridge

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: I71968847 thru I71968875

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

North Carolina COA: C-0844



March 13, 2025

Galinski, John

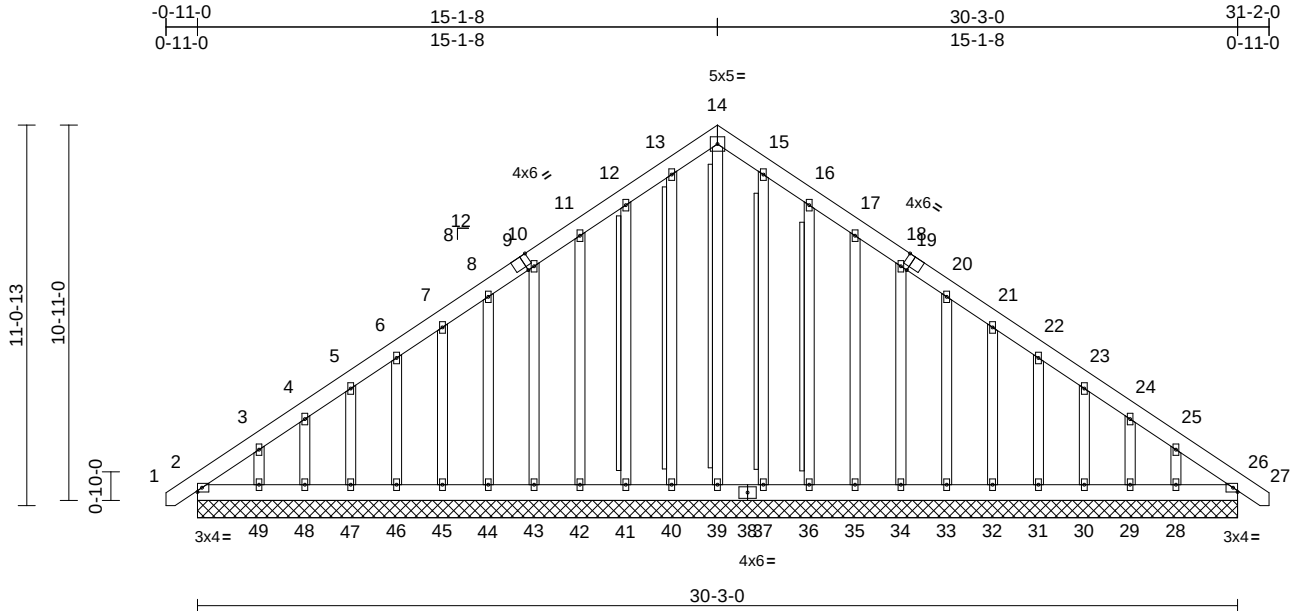
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 3 Mabry Ridge	I71968847
J0325-1350	A1-GE	COMMON SUPPORTED GAB	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. Tue Mar 11 18:26:48
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Page: 1



Scale = 1:67

Plate Offsets (X, Y): [9:0-2-4,Edge], [19:0-2-4,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	0.05	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	0.10	Horz(CT)	0.01	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 329 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-37, 16-36

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size)	2=30-3-0, 26=30-3-0, 28=30-3-0, 29=30-3-0, 30=30-3-0, 31=30-3-0, 32=30-3-0, 33=30-3-0, 34=30-3-0, 35=30-3-0, 36=30-3-0, 37=30-3-0, 39=30-3-0, 40=30-3-0, 41=30-3-0, 42=30-3-0, 43=30-3-0, 44=30-3-0, 45=30-3-0, 46=30-3-0, 47=30-3-0, 48=30-3-0, 49=30-3-0
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Max Horiz 2=318 (LC 11)

Max Uplift 2=-103 (LC 8), 26=-28 (LC 9), 28=-112 (LC 13), 29=-57 (LC 13), 30=-58 (LC 13), 31=-58 (LC 13), 32=-58 (LC 13), 33=-58 (LC 13), 34=-59 (LC 13), 35=-66 (LC 13), 36=-66 (LC 13), 40=-9 (LC 9), 41=-65 (LC 12), 42=-64 (LC 12), 43=-59 (LC 12), 44=-58 (LC 12), 45=-58 (LC 12), 46=-58 (LC 12), 47=-58 (LC 12), 48=-58 (LC 12), 49=-122 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/11, 2-3=-344/259, 3-4=-250/212, 4-5=-217/194, 5-6=-189/176, 6-7=-174/163, 7-8=-160/160, 8-10=-146/180, 10-11=-132/209, 11-12=-138/240, 12-13=-166/272, 13-14=-169/271, 14-15=-169/271, 15-16=-166/266, 16-17=-138/214, 17-18=-108/164, 18-20=-80/116, 20-21=-64/78, 21-22=-74/56, 22-23=-85/67, 23-24=-125/85, 24-25=-176/103, 25-26=-264/141, 26-27=0/11

BOT CHORD

2-49=-115/243, 48-49=-115/243, 47-48=-115/243, 46-47=-115/243, 45-46=-115/243, 44-45=-115/243, 43-44=-115/243, 42-43=-115/243, 41-42=-115/243, 40-41=-115/243, 39-40=-115/243, 37-39=-115/243, 36-37=-115/243, 35-36=-115/243, 34-35=-115/243, 33-34=-115/243, 32-33=-115/243, 31-32=-115/243, 30-31=-115/243, 29-30=-115/243, 28-29=-115/243, 26-28=-115/243

WEBS

14-39=-168/69, 13-40=-93/25, 12-41=-93/81, 11-42=-91/80, 10-43=-91/75, 8-44=-91/74, 7-45=-91/74, 6-46=-91/74, 5-47=-90/73, 4-48=-91/76, 3-49=-127/132, 15-37=-76/0, 16-36=-95/82, 17-35=-93/82, 18-34=-91/75, 20-33=-91/74, 21-32=-91/74, 22-31=-91/74, 23-30=-91/73, 24-29=-89/75, 25-28=-117/123

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 15-1-8, Corner(3R) 15-1-8 to 19-6-5, Exterior(2N) 19-6-5 to 31-0-7 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.



March 13, 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.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge
J0325-1350	A1-GE	COMMON SUPPORTED GAB	1	1	I71968847
Job Reference (optional)					

- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 28 lb uplift at joint 26, 103 lb uplift at joint 2, 9 lb uplift at joint 40, 65 lb uplift at joint 41, 64 lb uplift at joint 42, 59 lb uplift at joint 43, 58 lb uplift at joint 44, 58 lb uplift at joint 45, 58 lb uplift at joint 46, 58 lb uplift at joint 47, 58 lb uplift at joint 48, 122 lb uplift at joint 49, 66 lb uplift at joint 36, 66 lb uplift at joint 35, 59 lb uplift at joint 34, 58 lb uplift at joint 33, 58 lb uplift at joint 32, 58 lb uplift at joint 31, 58 lb uplift at joint 30, 57 lb uplift at joint 29 and 112 lb uplift at joint 28.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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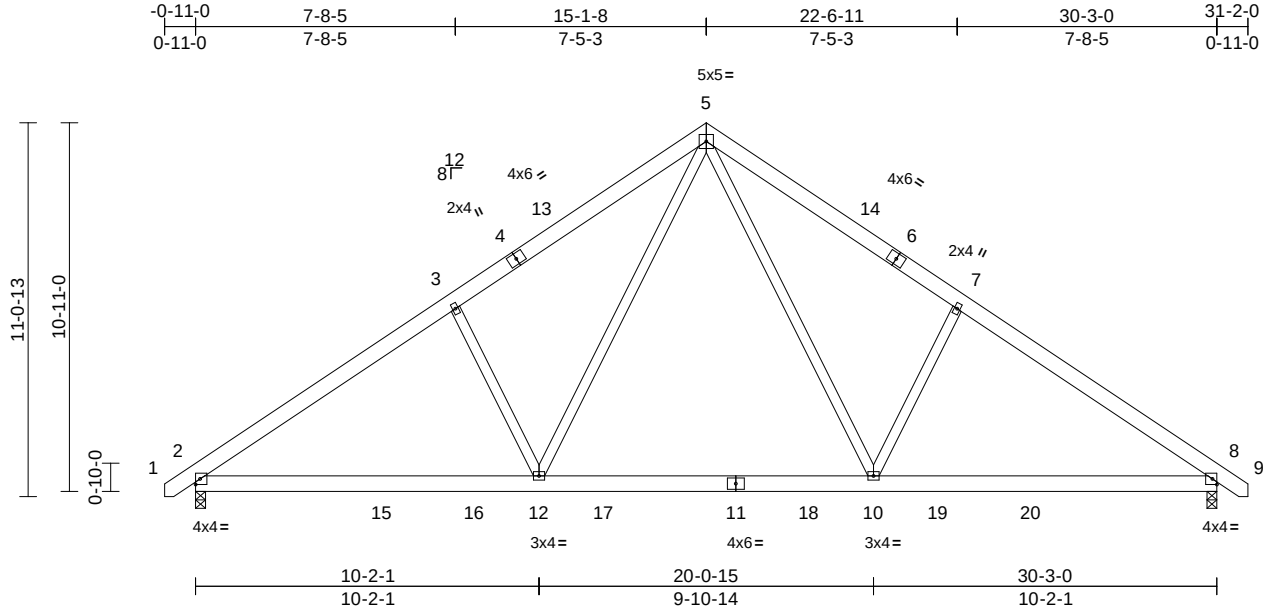
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968848
J0325-1350	A2	COMMON	7	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	0.25	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.18	2-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 211 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 5-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=-254 (LC 10)
Max Uplift 2=-75 (LC 12), 8=-75 (LC 13)
Max Grav 2=1563 (LC 19), 8=1563 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/11, 2-3=-2071/348, 3-5=-1941/443,
5-7=-1941/443, 7-8=-2072/348, 8-9=0/11
BOT CHORD 2-12=-174/1793, 10-12=0/1181,
8-10=-158/1620
WEBS 5-10=-161/1011, 7-10=-411/295,
5-12=-161/1011, 3-12=-411/295

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) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 15-1-8,
Exterior(2R) 15-1-8 to 19-6-5, Interior (1) 19-6-5 to
31-0-7 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 75 lb uplift at joint
2 and 75 lb uplift at joint 8.

LOAD CASE(S) Standard



March 13, 2025

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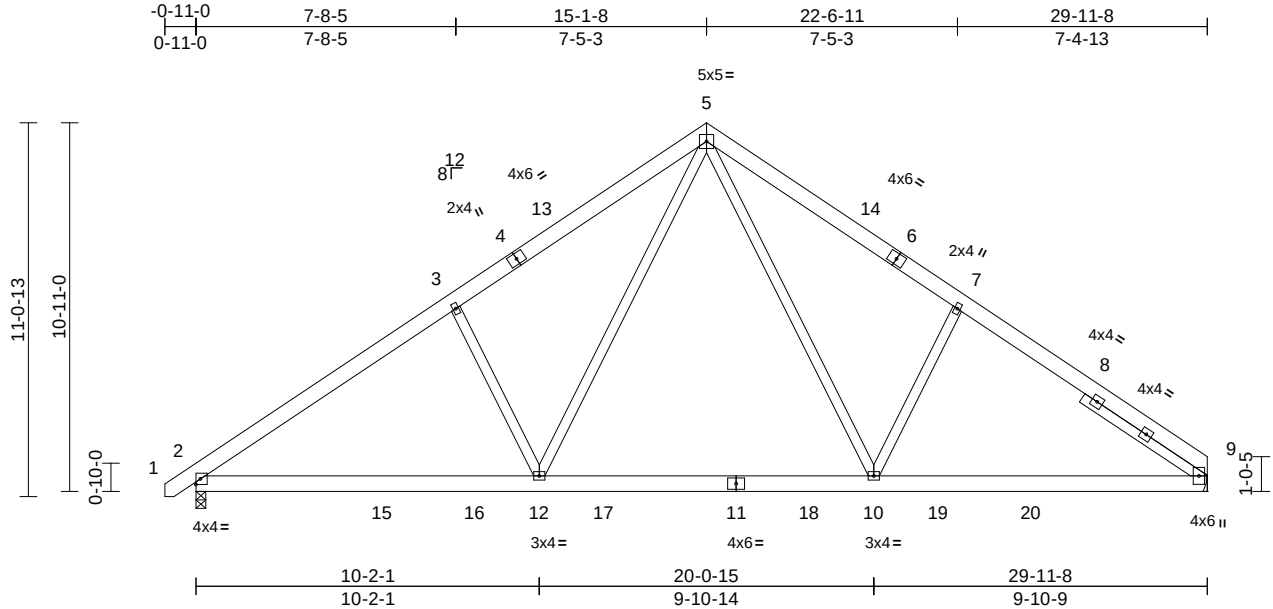
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	
J0325-1350	A3	COMMON	4	1	Job Reference (optional)	I71968849

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:68.2

Plate Offsets (X, Y): [9:0-3-4,0-1-0]

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	0.25	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.18	2-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	2-12	>999	240	Weight: 214 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 4-4-7

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 9= Mechanical
Max Horiz 2=253 (LC 9)
Max Uplift 2=-75 (LC 12), 9=-61 (LC 13)
Max Grav 2=1557 (LC 19), 9=1504 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/11, 2-3=-2061/347, 3-5=-1930/442,
5-7=-1886/436, 7-9=-2024/348
BOT CHORD 2-12=-185/1781, 10-12=0/1170,
9-10=-164/1566
WEBS 5-10=-151/949, 7-10=-370/289,
5-12=-161/1012, 3-12=-407/294

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) 0-9-7 to 3-7-6, Interior (1) 3-7-6 to 15-1-8,
Exterior(2R) 15-1-8 to 19-6-5, Interior (1) 19-6-5 to
29-11-8 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) Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 61 lb uplift at joint 9.

LOAD CASE(S) Standard



March 13, 2025

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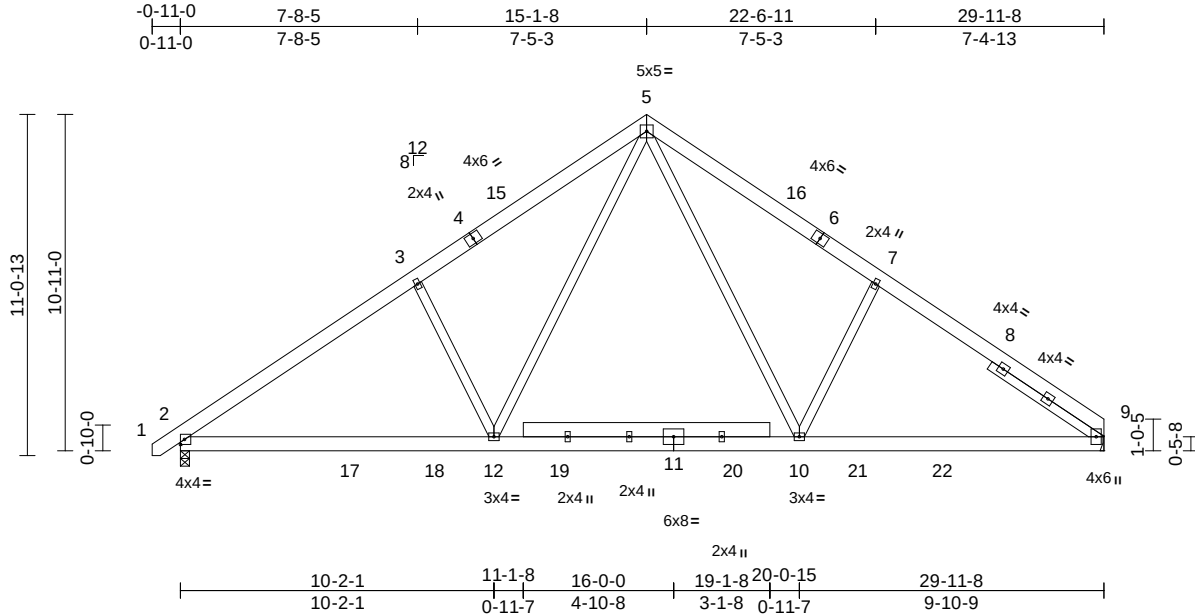
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968850
J0325-1350	A3A	COMMON	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:74.7

Plate Offsets (X, Y): [9:0-3-4,0-1-0]

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	0.25	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.18	2-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	2-12	>999	240	Weight: 233 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 4-4-7

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 9= Mechanical
Max Horiz 2=253 (LC 9)
Max Uplift 2=-75 (LC 12), 9=-61 (LC 13)
Max Grav 2=1550 (LC 19), 9=1497 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/11, 2-3=-2048/347, 3-5=-1917/442,
5-7=-1874/436, 7-9=-2012/348
BOT CHORD 2-12=-185/1771, 10-12=0/1163,
9-10=-164/1556
WEBS 5-10=-151/941, 7-10=-371/289,
5-12=-161/1005, 3-12=-408/294

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) 0-9-7 to 3-7-6, Interior (1) 3-7-6 to 15-1-8,
Exterior(2R) 15-1-8 to 19-6-5, Interior (1) 19-6-5 to
29-11-8 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) Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 61 lb uplift at joint 9.

LOAD CASE(S) Standard



March 13, 2025

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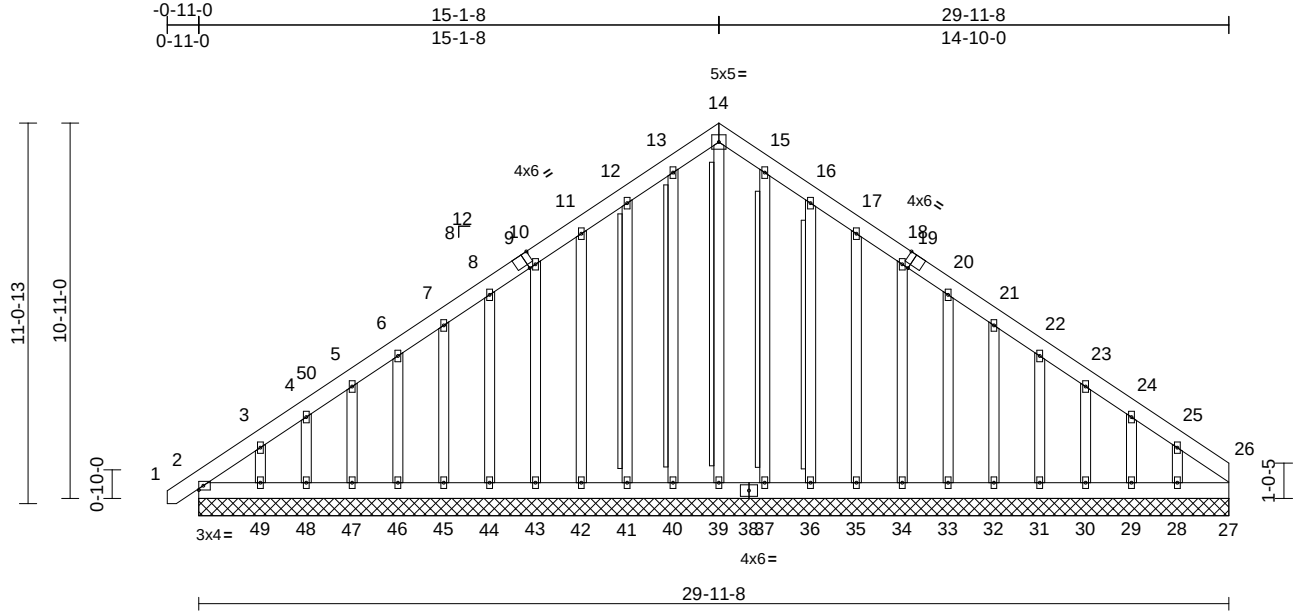
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968851
J0325-1350	A4-GE	COMMON SUPPORTED GAB	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. Tue Mar 11 18:26:50
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Page: 1



Scale = 1:67

Plate Offsets (X, Y): [9:0-2-4,Edge], [19:0-2-4,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	0.09	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	27	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 325 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.
WEBS T-Brace: 2x4 SPF No.2 - 14-39,
13-40, 12-41, 15-37,
16-36
Fasten (2X) T and I braces to narrow edge
of web with 10d (0.131"x3") nails, 6in
o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size)
2=29-11-8, 27=29-11-8,
28=29-11-8, 29=29-11-8,
30=29-11-8, 31=29-11-8,
32=29-11-8, 33=29-11-8,
34=29-11-8, 35=29-11-8,
36=29-11-8, 37=29-11-8,
39=29-11-8, 40=29-11-8,
41=29-11-8, 42=29-11-8,
43=29-11-8, 44=29-11-8,
45=29-11-8, 46=29-11-8,
47=29-11-8, 48=29-11-8,
49=29-11-8
Max Horiz 2=-314 (LC 10)

Max Uplift 2=-224 (LC 8), 28=-122 (LC 13),
29=-21 (LC 13), 30=-59 (LC 13),
31=-59 (LC 13), 32=-58 (LC 13),
33=-57 (LC 13), 34=-59 (LC 13),
35=-73 (LC 13), 36=-71 (LC 13),
39=-83 (LC 11), 40=-21 (LC 9),
41=-66 (LC 12), 42=-66 (LC 12),
43=-59 (LC 12), 44=-58 (LC 12),
45=-58 (LC 12), 46=-58 (LC 12),
47=-58 (LC 12), 48=-57 (LC 12),
49=-111 (LC 12)
Max Grav 2=263 (LC 11), 27=24 (LC 3),
28=218 (LC 20), 29=65 (LC 20),
30=120 (LC 20), 31=119 (LC 20),
32=118 (LC 20), 33=117 (LC 20),
34=118 (LC 20), 35=122 (LC 20),
36=123 (LC 20), 37=121 (LC 22),
39=358 (LC 13), 40=147 (LC 22),
41=117 (LC 19), 42=115 (LC 19),
43=117 (LC 19), 44=118 (LC 19),
45=118 (LC 19), 46=117 (LC 19),
47=118 (LC 19), 48=114 (LC 19),
49=184 (LC 19)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/11, 2-3=-383/400, 3-4=-335/349,
4-5=-318/342, 5-6=-305/340, 6-7=-291/368,
7-8=-277/396, 8-10=-262/424,
10-11=-249/453, 11-12=-238/488,
12-13=-268/523, 13-14=-258/480,
14-15=-258/475, 15-16=-268/500,
16-17=-238/447, 17-18=-207/393,
18-20=-179/345, 20-21=-152/298,
21-22=-125/251, 22-23=-97/203,
23-24=-69/154, 24-25=-64/148, 25-26=0/50

BOT CHORD 2-49=0/0, 48-49=0/0, 47-48=0/0, 46-47=0/0,
45-46=0/0, 44-45=0/0, 43-44=0/0, 42-43=0/0,
41-42=0/0, 40-41=0/0, 39-40=0/0, 37-39=0/0,
36-37=0/0, 35-36=0/0, 34-35=0/0, 33-34=0/0,
32-33=0/0, 31-32=0/0, 30-31=0/0, 29-30=0/0,
28-29=0/0, 27-28=0/0
WEBS 14-39=-342/140, 13-40=-120/41,
12-41=-91/82, 11-42=-88/83, 10-43=-91/75,
8-44=-91/74, 7-45=-91/74, 6-46=-91/74,
5-47=-90/73, 4-48=-93/75, 3-49=-141/122,
15-37=-94/0, 16-36=-96/87, 17-35=-95/89,
18-34=-91/75, 20-33=-91/73, 21-32=-91/74,
22-31=-92/75, 23-30=-93/75, 24-29=-88/36,
25-28=-185/235

NOTES
1) Unbalanced roof live loads have been considered for
this design.



March 13, 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.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge
J0325-1350	A4-GE	COMMON SUPPORTED GAB	1	1	I71968851
Job Reference (optional)					

- 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; Gable Roof; Common Truss;
MWFRS (envelope) exterior zone and C-C Corner(3E)
-0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 15-1-8, Corner(3R)
15-1-8 to 19-6-5, Exterior(2N) 19-6-5 to 29-11-8 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 requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf
on the bottom chord in all areas where a rectangle
3-06-00 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 224 lb uplift at
joint 2, 83 lb uplift at joint 39, 21 lb uplift at joint 40, 66 lb
uplift at joint 41, 66 lb uplift at joint 42, 59 lb uplift at joint
43, 58 lb uplift at joint 44, 58 lb uplift at joint 45, 58 lb
uplift at joint 46, 58 lb uplift at joint 47, 57 lb uplift at joint
48, 111 lb uplift at joint 49, 71 lb uplift at joint 36, 73 lb
uplift at joint 35, 59 lb uplift at joint 34, 57 lb uplift at joint
33, 58 lb uplift at joint 32, 59 lb uplift at joint 31, 59 lb
uplift at joint 30, 21 lb uplift at joint 29 and 122 lb uplift at
joint 28.
- 11) Warning: Additional permanent and stability bracing for
truss system (not part of this component design) is
always required.

LOAD CASE(S) Standard

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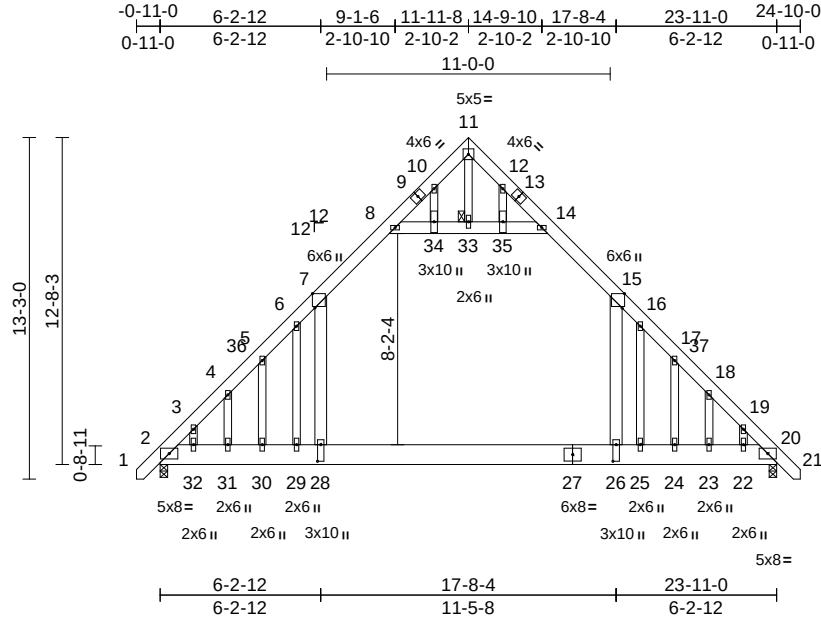
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge
J0325-1350	B1-GE	GABLE	1	1	I71968852
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:50

Page: 1

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Scale = 1:89.4

Plate Offsets (X, Y): [7:0-6-10,Edge], [15:0-6-10,Edge], [26:0-7-12,0-1-8], [28:0-7-12,0-1-8]

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	0.58	Vert(LL)	-0.18	26-28	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.31	26-28	>901	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.11	28-29	>999	240	Weight: 262 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 *Except* 1-9,21-13:2x6 SP

2400F 2.0E

BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1

OTHERS 2x4 SP No.2

BRACING

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

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

JOINTS 1 Brace at Jt(s): 33

REACTIONS (size) 2=0-3-8, 20=0-3-8

Max Horiz 2=382 (LC 11)

Max Grav 2=1531 (LC 20), 20=1531 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-1911/0, 3-4=-1836/0,

4-5=-1760/0, 5-6=-1926/32, 6-7=-2448/90,

7-8=-1155/196, 8-10=-119/114, 10-11=0/452,

11-12=0/452, 12-14=-119/114,

14-15=-1155/196, 15-16=-2447/90,

16-17=-1925/32, 17-18=-1760/0,

18-19=-1836/0, 19-20=-1910/0, 20-21=0/35

2-32=0/1299, 31-32=0/1299, 30-31=0/1299,

29-30=0/1298, 28-29=0/1295, 26-28=0/1295,

25-26=0/1295, 24-25=0/1298, 23-24=0/1299,

22-23=0/1299, 20-22=0/1298

WEBS 8-34=-1458/284, 33-34=-1453/284,

33-35=-1453/284, 14-35=-1456/284,

7-28=0/1723, 15-26=0/1722, 11-33=-611/10,

10-34=-17/523, 6-29=-812/71, 5-30=-326/96,

4-31=-34/109, 3-32=-30/99, 12-35=-16/522,

16-25=-812/71, 17-24=-326/96,

18-23=-34/109, 19-22=-30/99

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-6 to 3-7-7, Exterior(2N) 3-7-7 to 11-11-8, Corner (3R) 11-11-8 to 16-4-5, Exterior(2N) 16-4-5 to 24-8-6 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 1-4-0 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 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.
- Ceiling dead load (10.0 psf) on member(s). 7-8, 14-15, 8-34, 33-34, 33-35, 14-35; Wall dead load (5.0psf) on member(s). 7-28, 15-26
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 13, 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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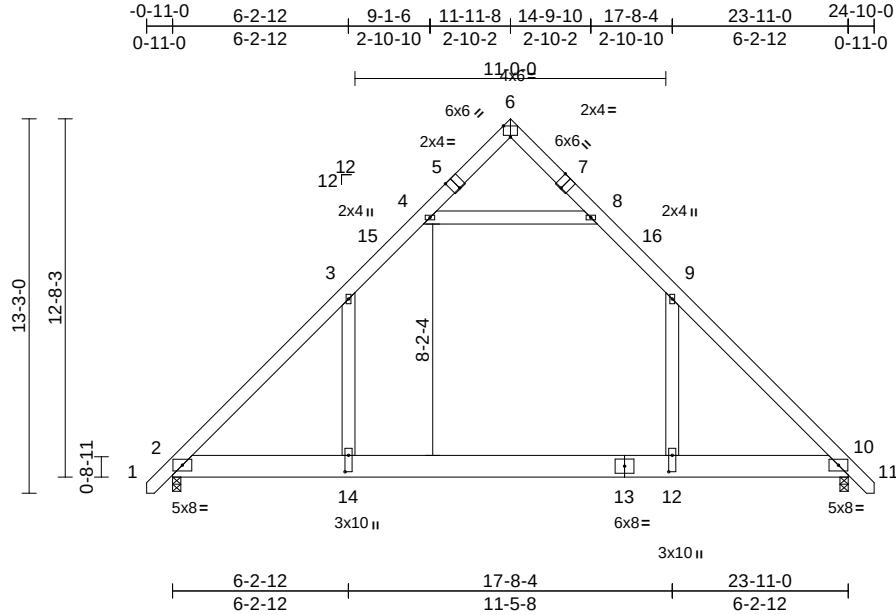
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968853
J0325-1350	B2	ATTIC	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. Tue Mar 11 18:26:50
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Page: 1



Scale = 1:81.5

Plate Offsets (X, Y): [5:0-3-0,Edge], [6:0-3-0,Edge], [7:0-3-0,Edge], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]

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	1.00	Vert(LL)	-0.28	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.52	12-14	>549	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	12-14	>999	240	Weight: 222 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8
Max Horiz 2=-305 (LC 10)
Max Grav 2=1536 (LC 20), 10=1536 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-2011/0, 3-4=-1127/135,
4-6=0/291, 6-8=0/292, 8-9=-1126/135,
9-10=-2011/0, 10-11=0/35
BOT CHORD 2-14=0/1237, 12-14=0/1237, 10-12=0/1237
WEBS 4-8=-1508/158, 3-14=0/900, 9-12=0/900

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) -0-9-6 to 3-7-7, Interior (1) 3-7-7 to 11-11-8,
Exterior(2R) 11-11-8 to 16-4-5, Interior (1) 16-4-5 to
24-8-6 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.
- Ceiling dead load (10.0 psf) on member(s), 3-4, 8-9, 4-8;
Wall dead load (5.0psf) on member(s),3-14, 9-12

- Bottom chord live load (40.0 psf) and additional bottom
chord dead load (10.0 psf) applied only to room. 12-14
- All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 13,2025

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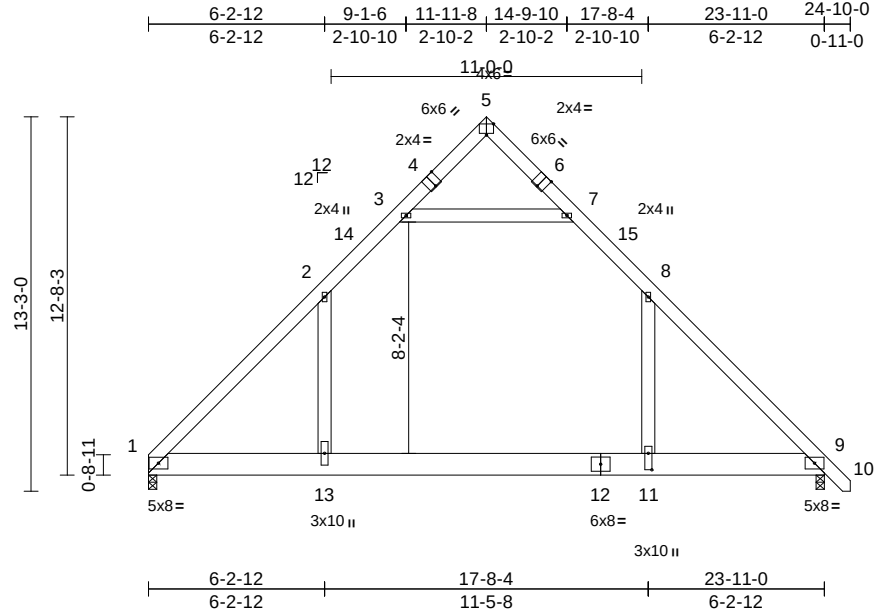
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968854
J0325-1350	B3	ATTIC	6	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:81.5

Plate Offsets (X, Y): [4:0-3-0,Edge], [5:0-3-0,Edge], [6:0-3-0,Edge], [11:0-7-0,0-1-8]

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	1.00	Vert(LL)	-0.29	11-13	>990	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.53	11-13	>539	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	11-13	>999	240	Weight: 219 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.

REACTIONS (size) 1=0-3-8, 9=0-3-8
Max Horiz 1=-299 (LC 8)
Max Grav 1=1486 (LC 21), 9=1537 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1981/0, 2-3=-1130/138, 3-5=0/293,
5-7=0/300, 7-8=-1123/134, 8-9=-2013/0,
9-10=0/35

BOT CHORD 1-13=0/1237, 11-13=0/1237, 9-11=0/1237

WEBS 3-7=-1515/164, 2-13=0/858, 8-11=0/906

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) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 11-11-8,
Exterior(2R) 11-11-8 to 16-4-5, Interior (1) 16-4-5 to
24-8-6 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.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7;
Wall dead load (5.0psf) on member(s). 2-13, 8-11

- Bottom chord live load (40.0 psf) and additional bottom
chord dead load (10.0 psf) applied only to room. 11-13
- All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 13, 2025

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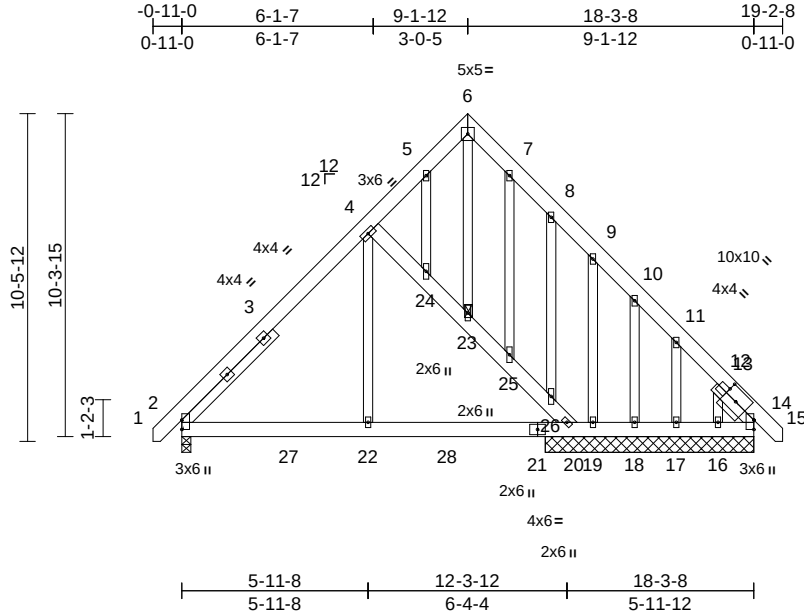
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	171968855
J0325-1350	C1-GE	KINGPOST	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:50

Page: 1

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Scale = 1:73.7

Plate Offsets (X, Y): [13:0-5-0,0-4-8], [14:1-2-14,0-2-0]

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	0.15	Vert(LL)	-0.01	2-22	>999	360	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-22	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	14	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	2-22	>999	240	Weight: 200 lb FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except* 4-22:2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 4-1-15, Right 2x4 SP No.2 -- 1-8-7

WEBS	4-24=-543/307, 23-24=-537/287, 23-25=-532/275, 25-26=-536/289, 20-26=-562/319, 4-22=0/442, 6-23=-60/54, 5-24=-29/17, 7-25=-30/40, 8-26=-89/88, 9-19=-156/147, 10-18=-83/100, 11-17=-105/137, 13-16=-139/215
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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.
JOINTS	1 Brace at Jt(s): 23

REACTIONS	(size)	2=0-3-8, 14=6-8-0, 16=6-8-0, 17=6-8-0, 18=6-8-0, 19=6-8-0, 20=6-8-0
	Max Horiz	2=-298 (LC 10)
	Max Uplift	2=-37 (LC 12), 14=-71 (LC 11), 16=-211 (LC 13), 17=-121 (LC 13), 18=-74 (LC 13), 19=-272 (LC 18), 20=-81 (LC 12)
	Max Grav	2=696 (LC 19), 14=404 (LC 13), 16=146 (LC 20), 17=138 (LC 20), 18=160 (LC 20), 19=-1 (LC 1), 20=820 (LC 19)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/10, 2-4=-669/47, 4-5=-218/119, 5-6=-157/122, 6-7=-127/80, 7-8=-164/43, 8-9=-176/6, 9-10=-189/43, 10-11=-247/71, 11-13=-349/126, 13-14=-528/209, 14-15=0/10
BOT CHORD	2-22=-122/542, 20-22=-122/542, 19-20=-143/351, 18-19=-142/350, 17-18=-142/350, 16-17=-141/349, 14-16=-136/340

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior (1) 3-7-3 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9, Interior (1) 13-6-9 to 19-1-2 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 1-4-0 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 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 71 lb uplift at joint 14, 81 lb uplift at joint 20, 37 lb uplift at joint 2, 272 lb uplift at joint 19, 74 lb uplift at joint 18, 121 lb uplift at joint 17 and 211 lb uplift at joint 16.

LOAD CASE(S) Standard



March 13, 2025

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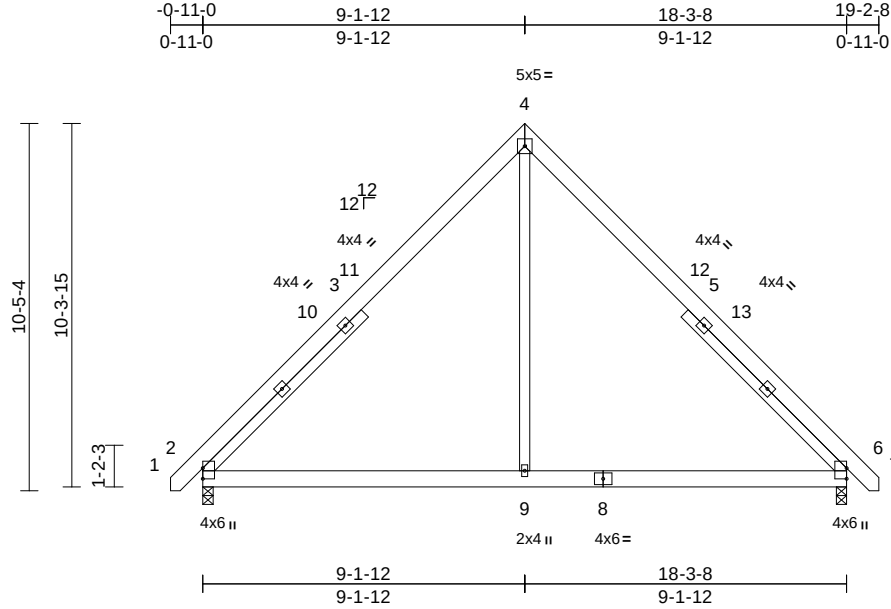
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968856
J0325-1350	C2	COMMON	1	1	Job Reference (optional)	

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Page: 1

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Scale = 1:65.5

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	0.39	Vert(LL)	-0.03	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	2-9	>999	240	Weight: 143 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 6-5-0, Right 2x4 SP No.2 -- 6-5-0

- 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 31 lb uplift at joint 6 and 31 lb uplift at joint 2.

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 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-238 (LC 10)
Max Uplift	2=-31 (LC 12), 6=-31 (LC 13)
Max Grav	2=778 (LC 1), 6=778 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/9, 2-4=-770/209, 4-6=-770/209, 6-7=0/9
BOT CHORD	2-9=-2/435, 6-9=-2/435
WEBS	4-9=0/434

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) -0-9-6 to 3-7-7, Interior (1) 3-7-7 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9, Interior (1) 13-6-9 to 19-0-14 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.



March 13, 2025

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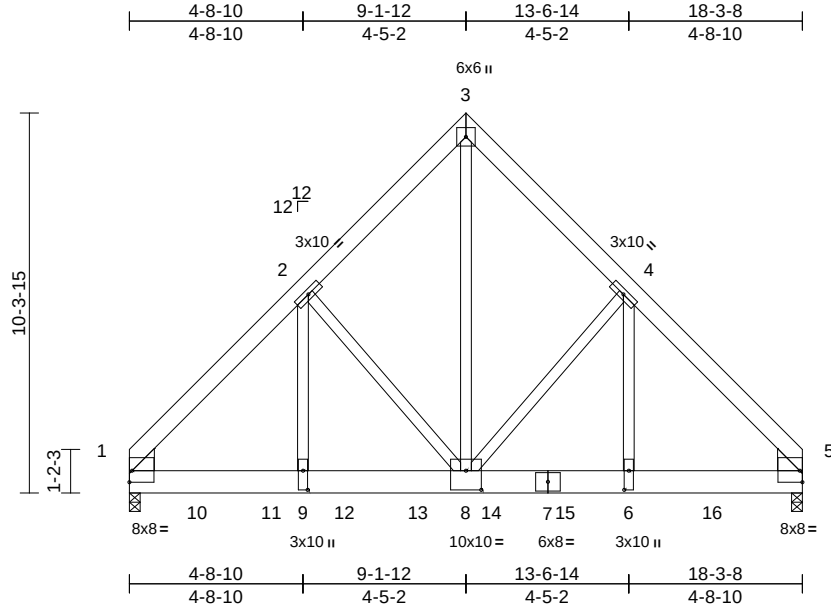
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968857
J0325-1350	C3	Common Girder	1	2	Job Reference (optional)	

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Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:51

Page: 1

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Scale = 1:62.6

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

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	0.64	Vert(LL)	-0.06	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.11	6-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	6-8	>999	240	Weight: 338 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE Left: 2x8 SP No.1
Right: 2x8 SP No.1

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=233 (LC 26)
Max Uplift 1=331 (LC 9), 5=378 (LC 8)
Max Grav 1=6777 (LC 16), 5=7832 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7494/410, 2-3=-5049/381,
3-4=-5050/381, 4-5=-7419/405
BOT CHORD 1-9=-296/4981, 8-9=-297/4991,
6-8=-201/4840, 5-6=-201/4829
WEBS 3-8=-437/6724, 4-8=-2057/258,
4-6=-116/3340, 2-8=-2140/261,
2-9=-121/3451

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 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 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 1 and 378 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1477 lb down and 73 lb up at 1-10-4, 1477 lb down and 73 lb up at 3-10-4, 1477 lb down and 73 lb up at 5-10-4, 1477 lb down and 73 lb up at 7-10-4, 1477 lb down and 73 lb up at 9-10-4, 1477 lb down and 73 lb up at 11-10-4, 1477 lb down and 73 lb up at 13-10-4, and 1477 lb down and 73 lb up at 15-10-4, and 1484 lb down and 69 lb up at 18-1-12 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: 6=-1172 (F), 5=-1179 (F), 10=-1172 (F),
11=-1172 (F), 12=-1172 (F), 13=-1172 (F), 14=-1172 (F), 15=-1172 (F), 16=-1172 (F)



March 13, 2025

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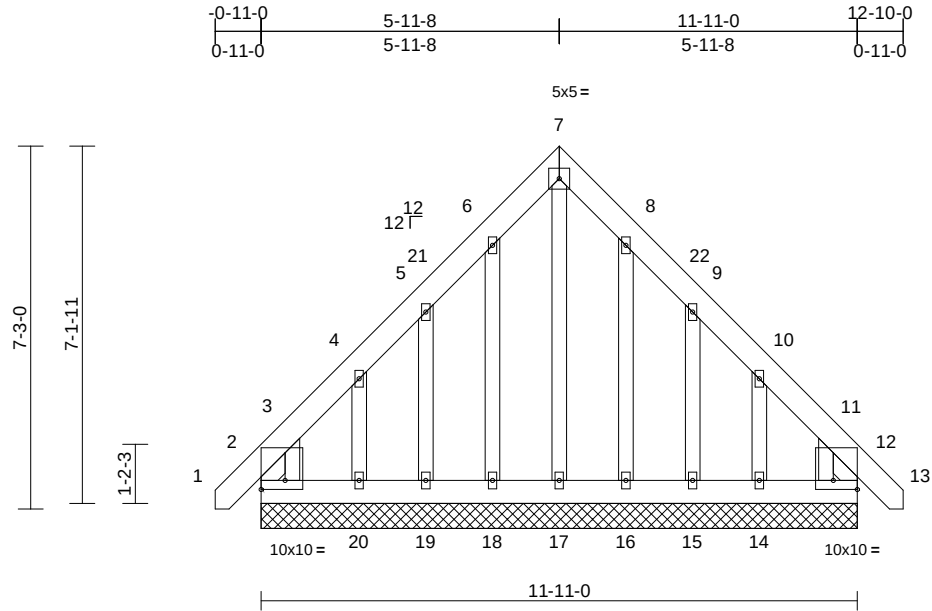
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968858
J0325-1350	D1-GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

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Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:51

Page: 1

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Scale = 1:46.1

Plate Offsets (X, Y): [2:Edge,0-2-3], [12:Edge,0-2-3]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 119 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2 *Except* 2-3,12-11:2x4 SP No.3
SLIDER	Left 2x4 SP No.2 -- 0-8-12, Right 2x4 SP No.2 -- 0-8-12

WEBS
7-17=-157/51, 6-18=-97/85, 5-19=-111/180,
4-20=-153/242, 8-16=-88/83, 9-15=-112/181,
10-14=-153/241

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-6 to 3-7-7, Exterior(2N) 3-7-7 to 5-11-8, Corner(3R) 5-11-8 to 10-4-5, Exterior(2N) 10-4-5 to 12-8-6 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 1-4-0 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 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, 25 lb uplift at joint 12, 58 lb uplift at joint 18, 91 lb uplift at joint 19, 166 lb uplift at joint 20, 51 lb uplift at joint 16, 95 lb uplift at joint 15 and 187 lb uplift at joint 14.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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 10-0-0 oc bracing.

REACTIONS (size)	2=11-11-0, 12=11-11-0, 14=11-11-0, 15=11-11-0, 16=11-11-0, 17=11-11-0, 18=11-11-0, 19=11-11-0, 20=11-11-0
Max Horiz	2=-202 (LC 10)
Max Uplift	2=-23 (LC 8), 12=-25 (LC 9), 14=-187 (LC 13), 15=-95 (LC 13), 16=-51 (LC 13), 18=-58 (LC 12), 19=-91 (LC 12), 20=-166 (LC 12)
Max Grav	2=179 (LC 21), 12=180 (LC 22), 14=184 (LC 20), 15=120 (LC 20), 16=117 (LC 20), 17=115 (LC 13), 18=126 (LC 19), 19=117 (LC 19), 20=161 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-3=-215/117, 3-4=-214/138, 4-5=-121/87, 5-6=-103/131, 6-7=-109/199, 7-8=-109/200, 8-9=-79/130, 9-10=-88/45, 10-11=-199/94, 11-12=-199/72, 12-13=0/28
BOT CHORD	2-20=-104/293, 19-20=-96/282, 18-19=-96/283, 17-18=-96/283, 16-17=-96/283, 15-16=-96/283, 14-15=-96/282, 12-14=-103/293



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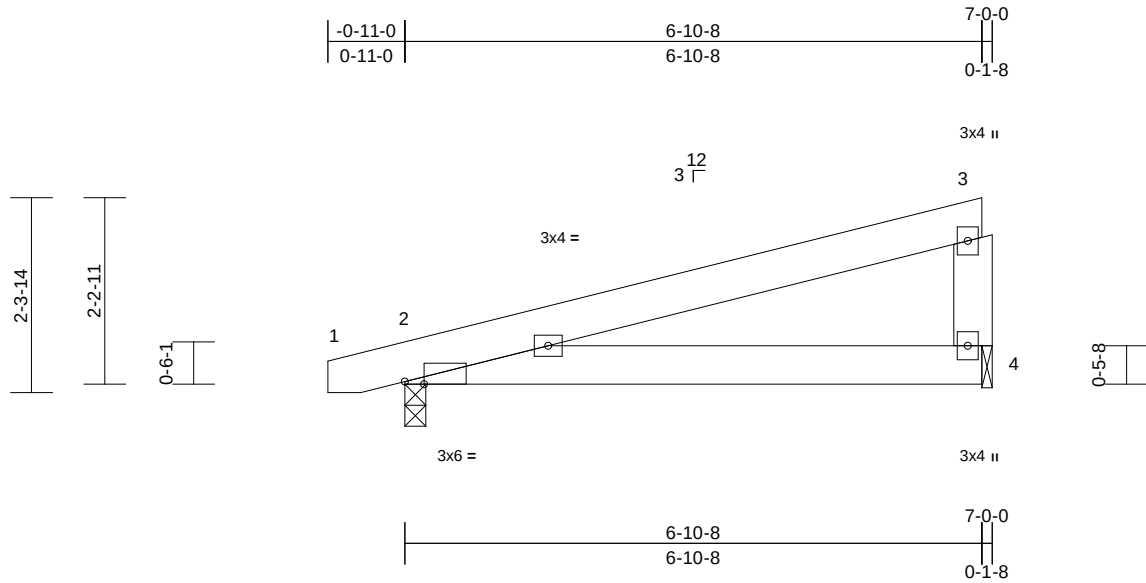
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Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968859
J0325-1350	E1	MONOPITCH	3	1	Job Reference (optional)	

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Page: 1



Scale = 1:27.5												
Plate Offsets (X, Y): [2:0-2-12,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	0.27	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.09	2-4	>922	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 108 lb uplift at joint 4.

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.

REACTIONS (size) 2=0-3-0, 4=0-1-8
Max Horiz 2=63 (LC 8)
Max Uplift 2=-128 (LC 8), 4=-108 (LC 8)
Max Grav 2=320 (LC 1), 4=263 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/8, 2-3=-80/40, 3-4=-196/246
BOT CHORD 2-4=0/0

- 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) -0-8-11 to 3-8-2, Interior (1) 3-8-2 to 6-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All bearings are assumed to be 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.



March 13, 2025

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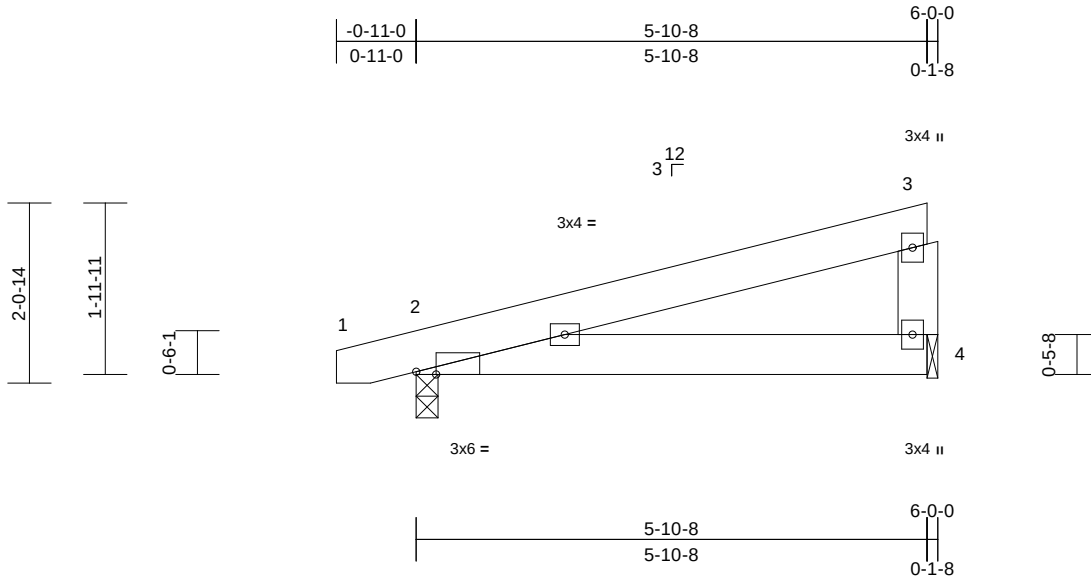
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968860
J0325-1350	E2	MONOPITCH	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. Tue Mar 11 18:26:51
ID:tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:26.5												
Plate Offsets (X, Y): [2:0-2-12,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	0.19	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.05	2-4	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 91 lb uplift at joint 4.

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.

REACTIONS (size) 2=0-3-0, 4=0-1-8
Max Horiz 2=55 (LC 8)
Max Uplift 2=-114 (LC 8), 4=-91 (LC 8)
Max Grav 2=280 (LC 1), 4=222 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/8, 2-3=-68/36, 3-4=-166/208
BOT CHORD 2-4=0/0

- 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) -0-8-11 to 3-8-2, Interior (1) 3-8-2 to 5-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All bearings are assumed to be 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.



March 13,2025

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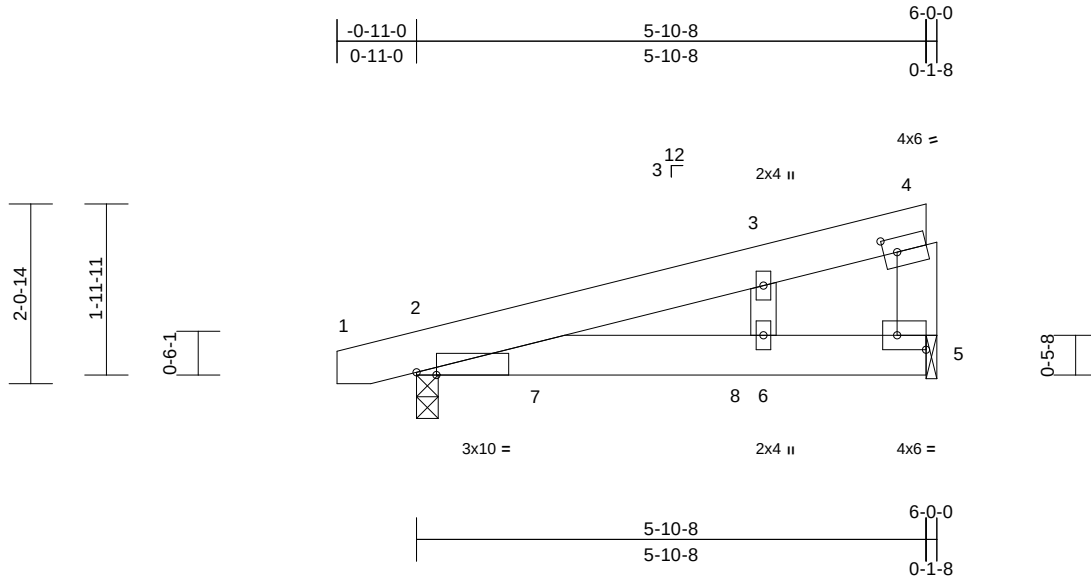
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968861
J0325-1350	E3-GE	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. Tue Mar 11 18:26:51
ID:tLzSiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?i

Page: 1



Scale = 1:26.6

Plate Offsets (X, Y): [2:0-2-12,Edge], [4:0-1-14,0-2-0], [5: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	0.20	Vert(LL)	0.04	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	2=0-3-0, 5=0-1-8
Max Horiz	2=78 (LC 8)
Max Uplift	2=-164 (LC 8), 5=-133 (LC 8)
Max Grav	2=280 (LC 1), 5=222 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/8, 2-3=-166/316, 3-4=-124/315, 4-5=-100/285
BOT CHORD	2-6=-396/126, 5-6=-396/126
WEBS	3-6=-82/86

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-11 to 3-8-2, Exterior(2N) 3-8-2 to 5-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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" 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 133 lb uplift at joint 5.

LOAD CASE(S) Standard



March 13, 2025

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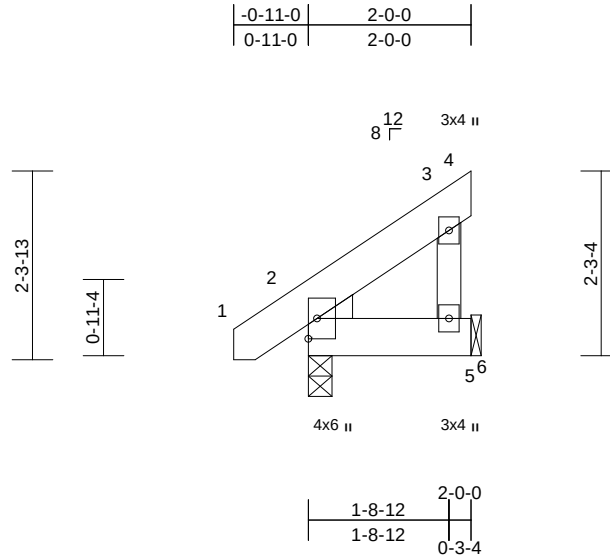
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968862
J0325-1350	G1	Monopitch	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:28.3

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	0.02	Vert(LL)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.00	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=59 (LC 12)
Max Uplift 5=-29 (LC 12)
Max Grav 2=137 (LC 1), 5=70 (LC 19)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/5, 2-3=-100/55, 3-4=-3/0, 3-6=-92/128
BOT CHORD 2-6=0/0, 5-6=0/0

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) 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.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing
capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 29 lb uplift at joint
5.

LOAD CASE(S) Standard



March 13, 2025

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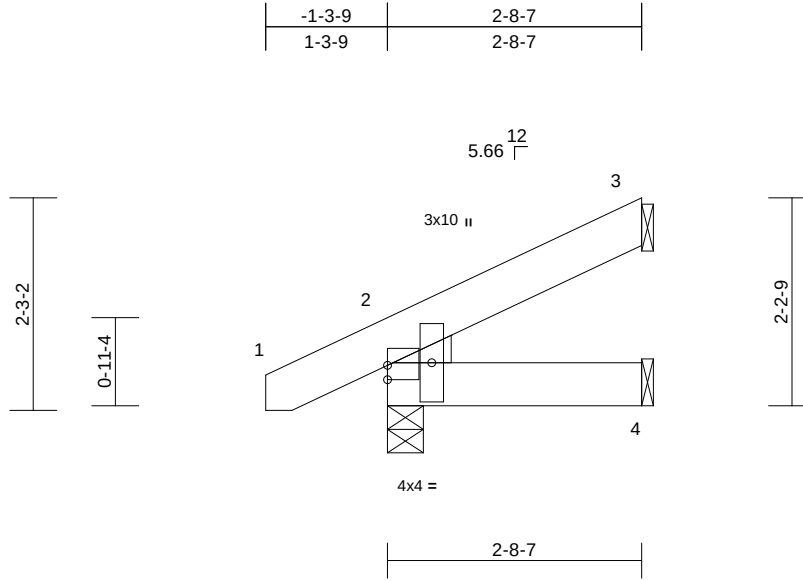
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	
J0325-1350	G2	Jack-Open	2	1	Job Reference (optional)	I71968863

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:51
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Page: 1



Scale = 1:24.5

Plate Offsets (X, Y): [2:Edge,0-1-13]

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	0.08	Vert(LL)	0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2=0-4-9, 3= Mechanical, 4=
Mechanical
Max Horiz 2=58 (LC 12)
Max Uplift 2=-15 (LC 12), 3=-39 (LC 12)
Max Grav 2=201 (LC 1), 3=51 (LC 1), 4=49
(LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/5, 2-3=-80/47
BOT CHORD 2-4=0/0

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
Corner (3) 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.
- 4) Bearings are assumed to be: , Joint 2 SP No.1 crushing
capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 39 lb uplift at joint
3 and 15 lb uplift at joint 2.



March 13, 2025

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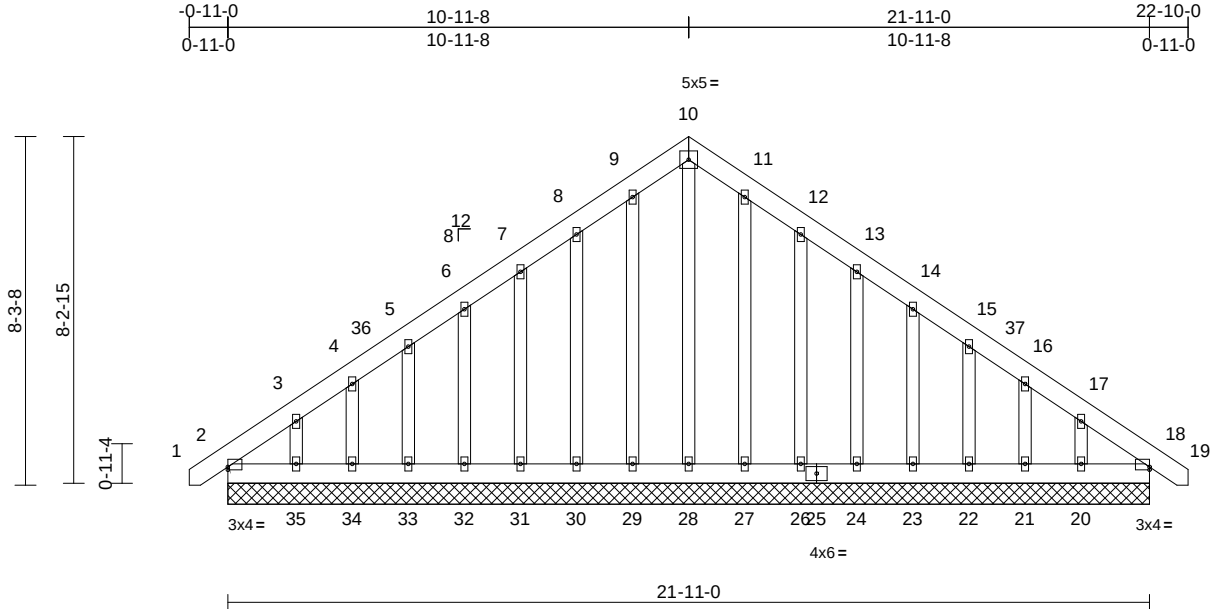
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968864
J0325-1350	H1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:54.8

Plate Offsets (X, Y): [2:Edge,0-0-13], [18:Edge,0-0-13]

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	0.04	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	0.13	Horz(CT)	0.00	18	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 208 lb FT = 20%											

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 or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=21-11-0, 18=21-11-0, 20=21-11-0, 21=21-11-0, 22=21-11-0, 23=21-11-0, 24=21-11-0, 26=21-11-0, 27=21-11-0, 28=21-11-0, 29=21-11-0, 30=21-11-0, 31=21-11-0, 32=21-11-0, 33=21-11-0, 34=21-11-0, 35=21-11-0
Max Horiz	2=-235 (LC 10)
Max Uplift	2=-80 (LC 8), 18=-21 (LC 9), 20=-109 (LC 13), 21=-58 (LC 13), 22=-57 (LC 13), 23=-58 (LC 13), 24=-63 (LC 13), 26=-67 (LC 13), 27=-7 (LC 13), 29=-19 (LC 12), 30=-66 (LC 12), 31=-62 (LC 12), 32=-58 (LC 12), 33=-57 (LC 12), 34=-59 (LC 12), 35=-119 (LC 12)
Max Grav	2=183 (LC 20), 18=139 (LC 22), 20=145 (LC 20), 21=115 (LC 20), 22=118 (LC 20), 23=117 (LC 20), 24=119 (LC 20), 26=122 (LC 20), 27=105 (LC 20), 28=136 (LC 13), 29=118 (LC 19), 30=120 (LC 19), 31=118 (LC 19), 32=117 (LC 19), 33=118 (LC 19), 34=116 (LC 19), 35=157 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/5, 2-3=-251/192, 3-4=-169/147, 4-5=-141/127, 5-6=-127/119, 6-7=-113/131, 7-8=-101/160, 8-9=-120/202, 9-10=-129/221, 10-11=-129/221, 11-12=-120/202, 12-13=-90/148, 13-14=-61/95, 14-15=-63/50, 15-16=-73/49, 16-17=-104/68, 17-18=-192/105, 18-19=0/5
BOT CHORD	2-35=-84/178, 34-35=-84/178, 33-34=-84/178, 32-33=-84/178, 31-32=-84/178, 30-31=-84/178, 29-30=-84/178, 28-29=-84/178, 27-28=-84/178, 26-27=-84/178, 24-26=-84/178, 23-24=-84/178, 22-23=-84/178, 21-22=-84/178, 20-21=-84/178, 18-20=-84/178
WEBS	10-28=-133/43, 9-29=-92/35, 8-30=-93/84, 7-31=-91/80, 6-32=-91/74, 5-33=-90/75, 4-34=-93/88, 3-35=-119/130, 11-27=-79/23, 12-26=-95/84, 13-24=-92/80, 14-23=-91/74, 15-22=-91/75, 16-21=-91/88, 17-20=-109/128

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 10-11-8, Corner (3R) 10-11-8 to 15-4-5, Exterior(2N) 15-4-5 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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 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 80 lb uplift at joint 2, 21 lb uplift at joint 18, 19 lb uplift at joint 29, 66 lb uplift at joint 30, 62 lb uplift at joint 31, 58 lb uplift at joint 32, 57 lb uplift at joint 33, 59 lb uplift at joint 34, 119 lb uplift at joint 35, 7 lb uplift at joint 27, 67 lb uplift at joint 26, 63 lb uplift at joint 24, 58 lb uplift at joint 23, 57 lb uplift at joint 22, 58 lb uplift at joint 21 and 109 lb uplift at joint 20.

LOAD CASE(S) Standard



March 13, 2025

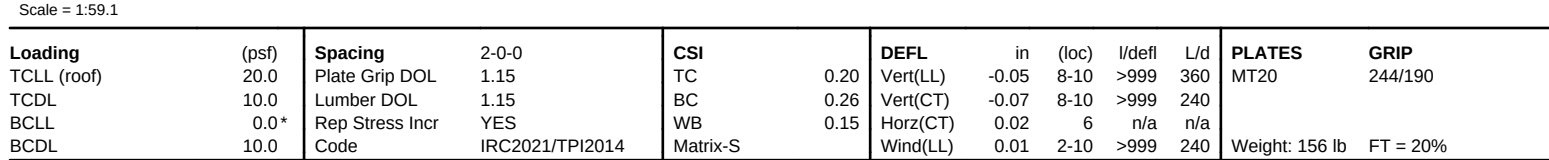
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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- 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 57 lb uplift at joint 2 and 57 lb uplift at joint 6.

LOAD CASE(S) Standard

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/5, 2-3=-1341/250, 3-4=-1242/321, 4-5=-1242/321, 5-6=-1341/250, 6-7=0/5
BOT CHORD	2-10=-128/1145, 8-10=0/773, 6-8=-109/1023
WEBS	4-8=-119/622, 5-8=-255/216, 4-10=-119/622, 3-10=-255/216

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) 0-9-7 to 3-7-6, Interior (1) 3-7-6 to 10-11-8, Exterior(2R) 10-11-8 to 15-4-5, Interior (1) 15-4-5 to 22-8-7 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.



March 13, 2025

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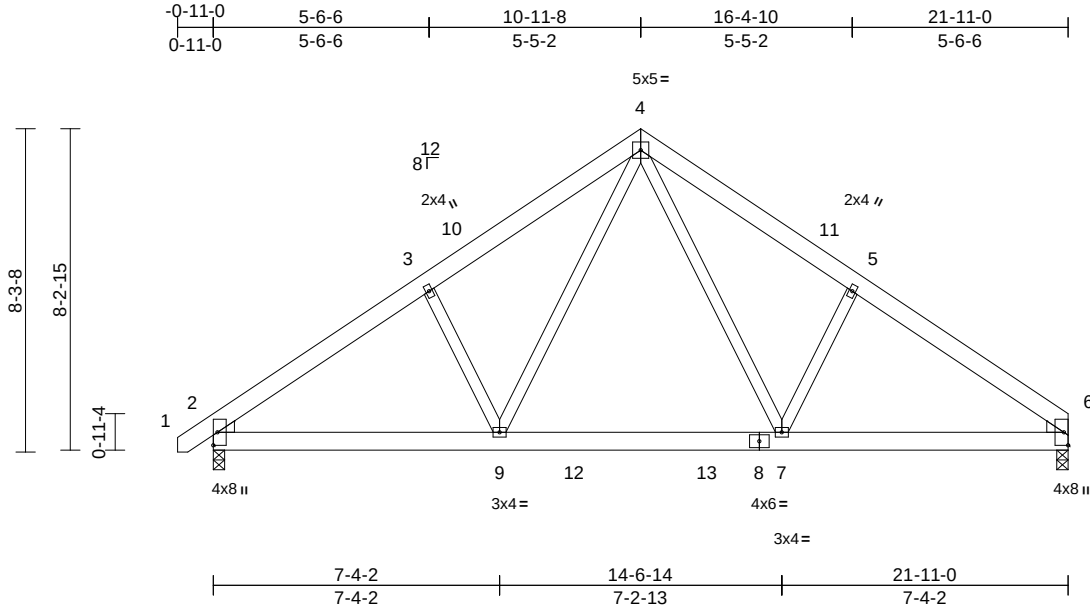
Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968866
J0325-1350	H3	Common	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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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)	-0.05	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	2-9	>999	240	Weight: 154 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 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 57 lb uplift at joint 2 and 44 lb uplift at joint 6.

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 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=187 (LC 11)
Max Uplift 2=-57 (LC 12), 6=-44 (LC 13)
Max Grav 2=1068 (LC 19), 6=1014 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/5, 2-3=-1342/250, 3-4=-1243/322, 4-5=-1247/325, 5-6=-1345/253
BOT CHORD 2-9=-135/1145, 7-9=0/773, 6-7=-118/1025
WEBS 4-7=-121/628, 5-7=-259/220, 4-9=-119/621, 3-9=-255/216

- 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) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 10-11-8, Exterior(2R) 10-11-8 to 15-4-5, Interior (1) 15-4-5 to 21-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



March 13, 2025

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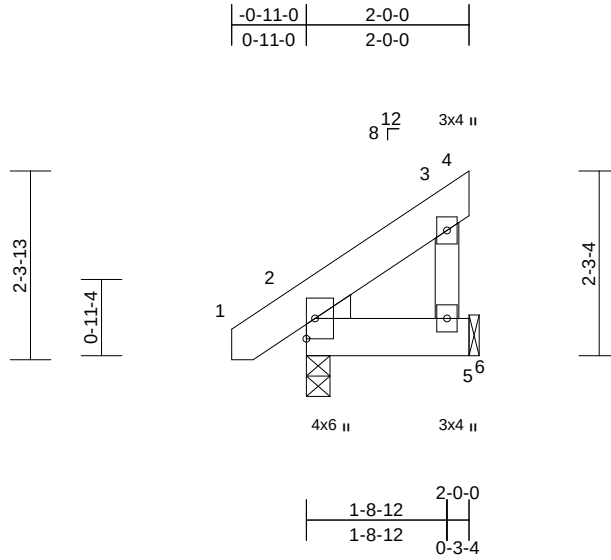
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968867
J0325-1350	J1	Monopitch	9	1	Job Reference (optional)	

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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	0.02	Vert(LL)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.00	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=59 (LC 12)
Max Uplift 5=-29 (LC 12)
Max Grav 2=137 (LC 1), 5=70 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/5, 2-3=-100/55, 3-4=-3/0, 3-6=-92/128
BOT CHORD 2-6=0/0, 5-6=0/0

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) 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.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing
capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 29 lb uplift at joint
5.

LOAD CASE(S) Standard



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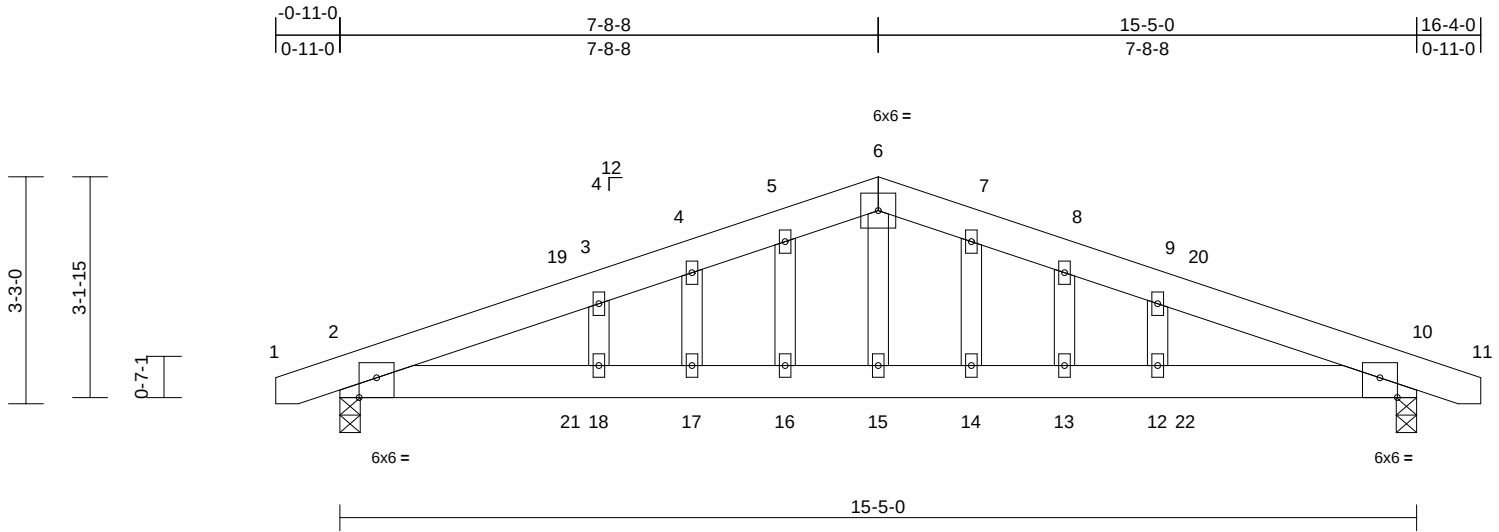
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968868
J0325-1350	P1-GE	GABLE	1	1	Job Reference (optional)	

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Page: 1



Scale = 1:33

Plate Offsets (X, Y): [2:0-3-0,Edge], [10:0-3-0,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	0.32	Vert(LL)	-0.04	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.07	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	17-18	>999	240	Weight: 95 lb	FT = 20%

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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-2 oc bracing.

REACTIONS

(size) 2=0-3-8, 10=0-3-8
Max Horiz 2=57 (LC 12)
Max Uplift 2=-356 (LC 8), 10=-356 (LC 9)
Max Grav 2=659 (LC 1), 10=659 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/8, 2-3=-1113/1951, 3-4=-1049/1940, 4-5=-1032/1947, 5-6=-1018/1957, 6-7=-1018/1956, 7-8=-1032/1947, 8-9=-1049/1940, 9-10=-1113/1951, 10-11=0/8
BOT CHORD 2-18=-1734/991, 17-18=-1734/991, 16-17=-1734/991, 15-16=-1734/991, 14-15=-1734/991, 13-14=-1734/991, 12-13=-1734/991, 10-12=-1734/991
WEBS 6-15=-733/345, 5-16=-42/42, 4-17=-18/17, 3-18=-54/79, 7-14=-42/42, 8-13=-18/17, 9-12=-54/79

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-1 to 3-8-8, Exterior(2N) 3-8-8 to 7-8-8, Corner(3R) 7-8-8 to 12-1-5, Exterior(2N) 12-1-5 to 16-2-1 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 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 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 356 lb uplift at joint 2 and 356 lb uplift at joint 10.

LOAD CASE(S) Standard



March 13, 2025

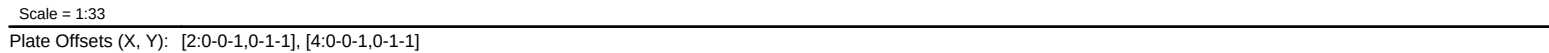
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LUMBER	6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 81 lb uplift at joint 4.
TOP CHORD 2x6 SP No.1	
BOT CHORD 2x6 SP No.1	
WEBS 2x4 SP No.2	LOAD CASE(S) Standard

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 81 lb uplift at joint 4.

LOAD CASE(S) Standard

-

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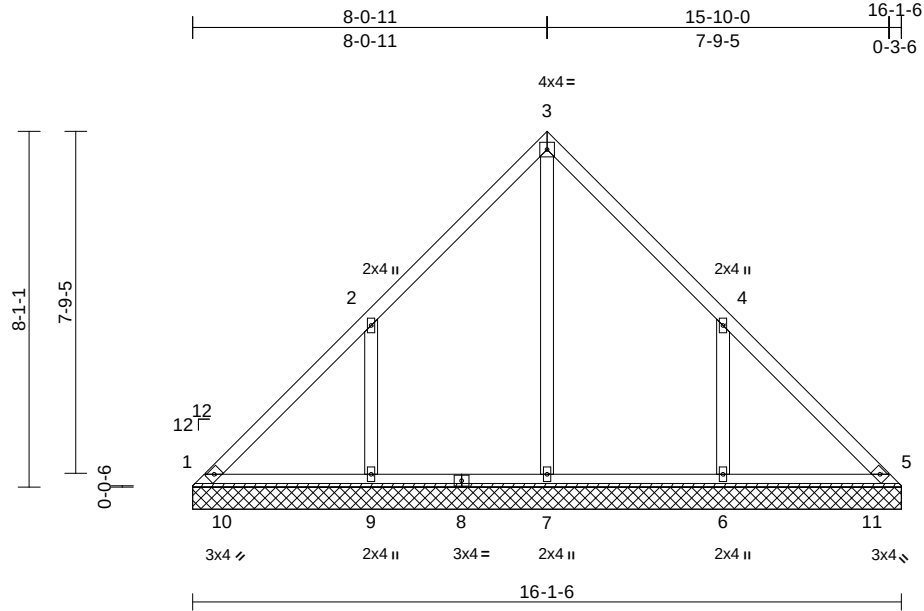


Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968870
J0325-1350	VC-1	Valley	1	1	Job Reference (optional)	

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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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 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=16-1-6, 5=16-1-6, 6=16-1-6, 7=16-1-6, 9=16-1-6
	Max Horiz	1=185 (LC 9)
	Max Uplift	1=-27 (LC 8), 6=-193 (LC 13), 9=-194 (LC 12)
	Max Grav	1=201 (LC 20), 5=178 (LC 19), 6=543 (LC 20), 7=407 (LC 22), 9=543 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-179/148, 2-3=-192/159, 3-4=-192/159, 4-5=-145/110
BOT CHORD	1-9=-113/147, 7-9=-113/147, 6-7=-113/147, 5-6=-113/147
WEBS	3-7=-137/21, 2-9=-427/314, 4-6=-427/314

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 8-1-1, Exterior(2R) 8-1-1 to 12-5-14, Interior (1) 12-5-14 to 15-9-14 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.
- 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 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 27 lb uplift at joint 1, 194 lb uplift at joint 9 and 193 lb uplift at joint 6.

LOAD CASE(S) Standard



March 13, 2025

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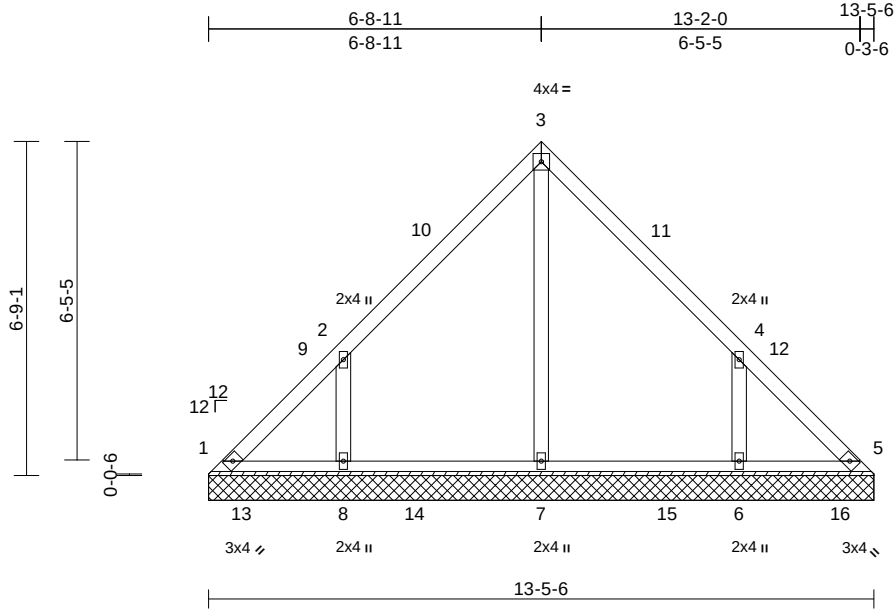
818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	
J0325-1350	VC-2	Valley	1	1	Job Reference (optional)	I71968871

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Page: 1



Scale = 1:46.6

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
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: 63 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=13-5-6, 5=13-5-6, 6=13-5-6, 7=13-5-6, 8=13-5-6
Max Horiz	1=-153 (LC 8)
Max Uplift	1=-38 (LC 8), 5=-13 (LC 9), 6=-166 (LC 13), 8=-166 (LC 12)
Max Grav	1=141 (LC 20), 5=123 (LC 19), 6=429 (LC 20), 7=398 (LC 19), 8=429 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-174/127, 2-3=-166/166, 3-4=-152/156, 4-5=-163/91
BOT CHORD	1-8=-56/140, 7-8=-56/140, 6-7=-56/140, 5-6=-56/140
WEBS	3-7=-138/0, 2-8=-296/359, 4-6=-296/359

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 6-9-1, Exterior(2R) 6-9-1 to 11-1-14, Interior (1) 11-1-14 to 13-1-14 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 0-0-0 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.
 - 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 38 lb uplift at joint 1, 13 lb uplift at joint 5, 166 lb uplift at joint 8 and 166 lb uplift at joint 6.
- LOAD CASE(S)** Standard



March 13, 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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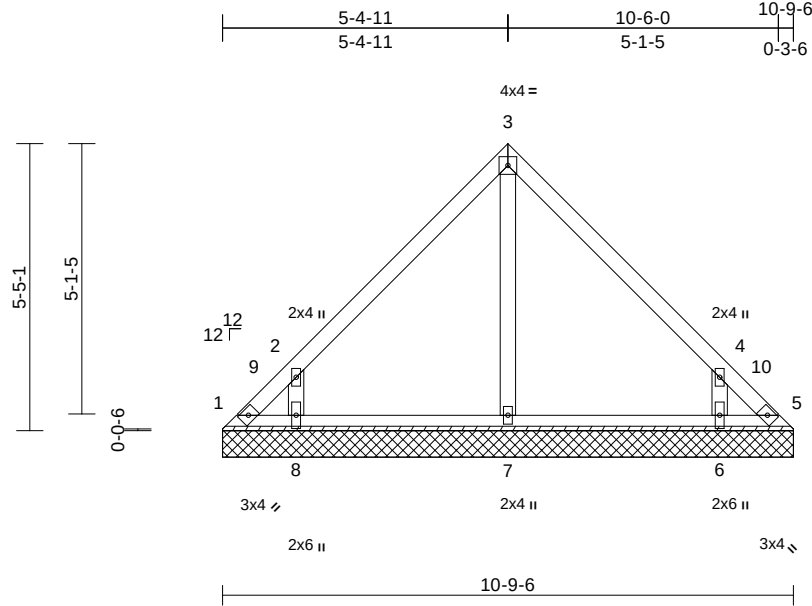
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	
J0325-1350	VC-3	Valley	1	1	Job Reference (optional)	I71968872

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:52
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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	0.18	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	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 47 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=10-9-6, 5=10-9-6, 6=10-9-6, 7=10-9-6, 8=10-9-6
	Max Horiz	1=-122 (LC 8)
	Max Uplift	1=-108 (LC 10), 5=-88 (LC 11), 6=-170 (LC 13), 8=-171 (LC 12)
	Max Grav	1=121 (LC 9), 5=109 (LC 13), 6=355 (LC 20), 7=221 (LC 1), 8=356 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-261/133, 2-3=-163/155, 3-4=-153/143, 4-5=-248/112
BOT CHORD	1-8=-40/120, 7-8=-40/120, 6-7=-40/120, 5-6=-40/120
WEBS	3-7=-135/13, 2-8=-332/471, 4-6=-332/471

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 5-5-1, Exterior(2R) 5-5-1 to 9-9-14, Interior (1) 9-9-14 to 10-5-14 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 0-0-0 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 108 lb uplift at joint 1, 88 lb uplift at joint 5, 171 lb uplift at joint 8 and 170 lb uplift at joint 6.
- LOAD CASE(S)** Standard



March 13, 2025

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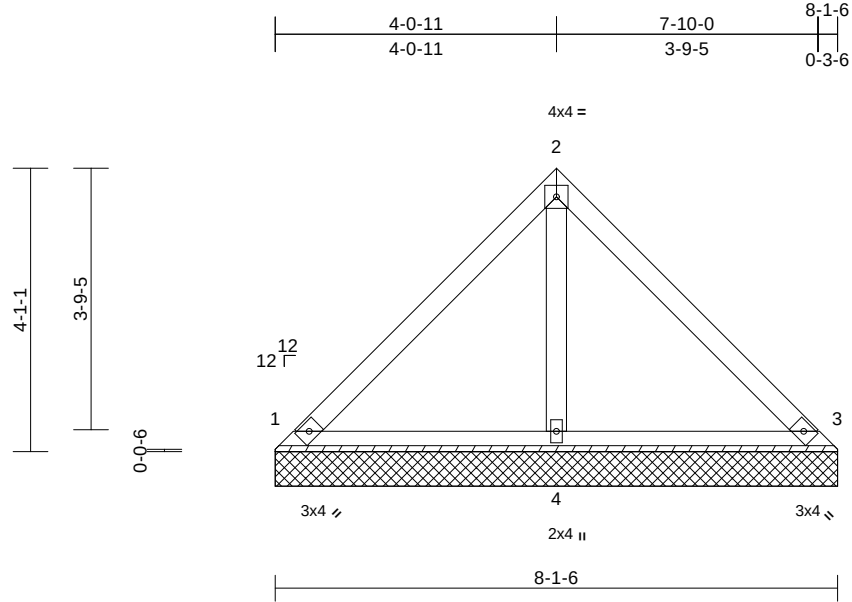
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	
J0325-1350	VC-4	Valley	1	1	Job Reference (optional)	I71968873

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Mar 11 18:26:52
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Page: 1



Scale = 1:33.2

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	244/190
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: 33 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=8-1-6, 3=8-1-6, 4=8-1-6
Max Horiz 1=-90 (LC 8)
Max Uplift 1=-32 (LC 13), 3=-32 (LC 13)
Max Grav 1=182 (LC 1), 3=182 (LC 1), 4=234 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-137/88, 2-3=-123/112
BOT CHORD 1-4=-26/61, 3-4=-26/61
WEBS 2-4=-140/100

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 0-0-0 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 32 lb uplift at joint 1 and 32 lb uplift at joint 3.

LOAD CASE(S) Standard



March 13,2025

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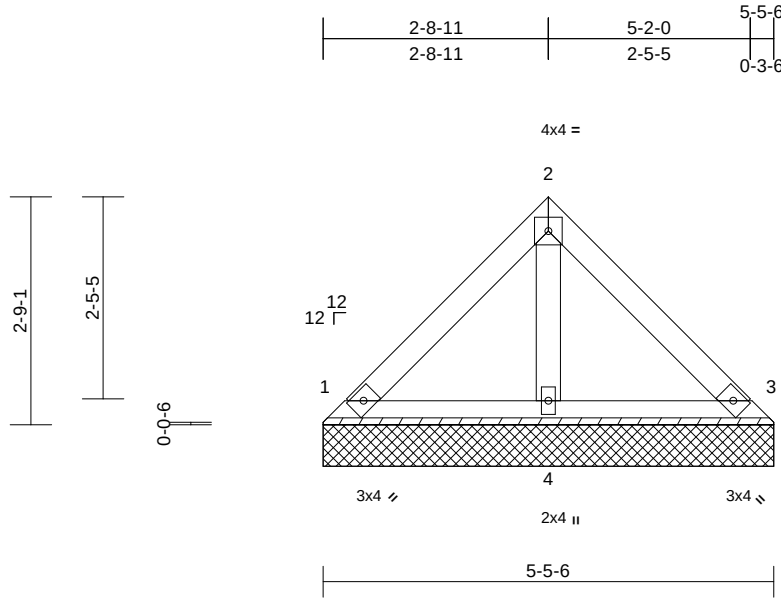
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968874
J0325-1350	VC-5	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:27.9

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	0.16	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 5-6-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=5-5-6, 3=5-5-6, 4=5-5-6
Max Horiz	1=58 (LC 9)
Max Uplift	1=-21 (LC 13), 3=-21 (LC 13)
Max Grav	1=117 (LC 1), 3=117 (LC 1), 4=150 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-88/68, 2-3=-79/86
BOT CHORD	1-4=-17/46, 3-4=-17/46
WEBS	2-4=-90/80

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 0-0-0 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 21 lb uplift at joint 1 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard



March 13, 2025

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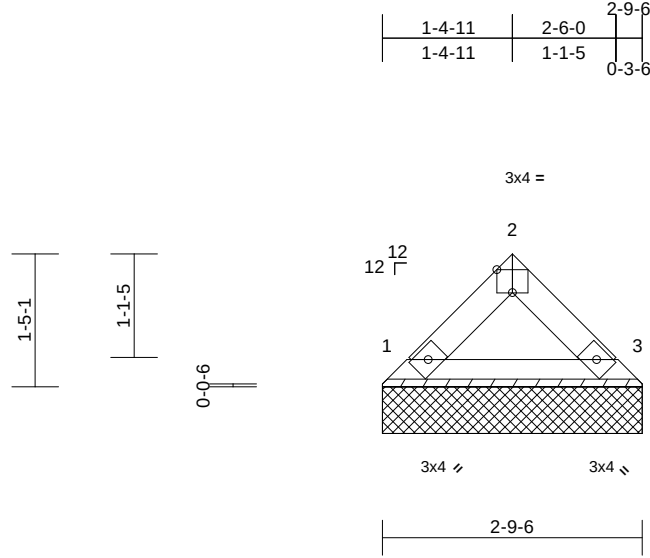
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Mabry Ridge	I71968875
J0325-1350	VC-6	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:24.7

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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: 9 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 2-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-9-6, 3=2-9-6

Max Horiz 1=26 (LC 9)
Max Uplift 1=-3 (LC 12), 3=-3 (LC 13)
Max Grav 1=86 (LC 1), 3=86 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

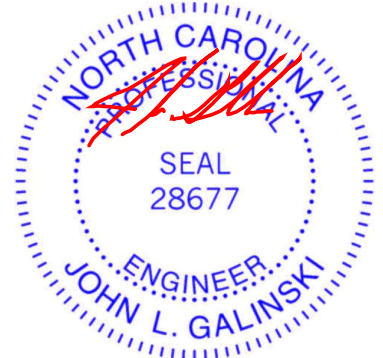
TOP CHORD 1-2=-64/62, 2-3=-64/74
BOT CHORD 1-3=-6/36

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 0-0-0 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 3 lb uplift at joint 1 and 3 lb uplift at joint 3.

LOAD CASE(S) Standard



March 13, 2025

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

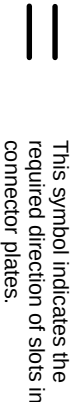
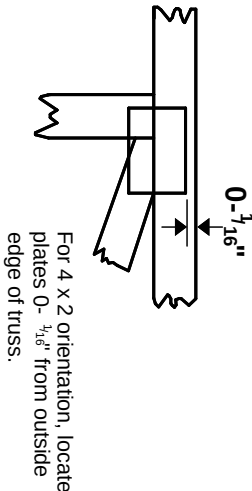
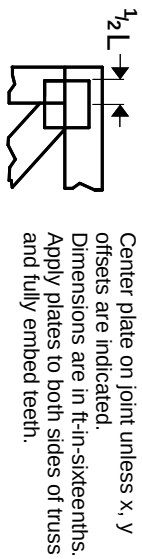
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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

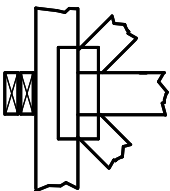
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

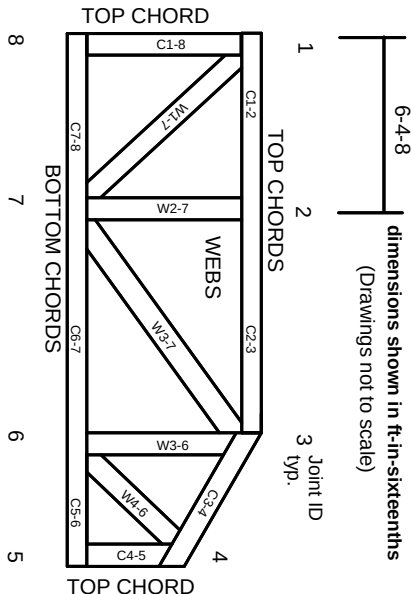


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.