

RE: J0325-1595
Lot 79 Ducks Landing

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0325-1595
Lot/Block:

Model:

Address:

Subdivision:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014

Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I73916245	A1	6/3/2025	21	I73916265	P2	6/3/2025
2	I73916246	A1-GE	6/3/2025	22	I73916266	VC01	6/3/2025
3	I73916247	A2	6/3/2025	23	I73916267	VC02	6/3/2025
4	I73916248	A3	6/3/2025	24	I73916268	VC03	6/3/2025
5	I73916249	A4	6/3/2025	25	I73916269	VC04	6/3/2025
6	I73916250	B1	6/3/2025				
7	I73916251	B1-GE	6/3/2025				
8	I73916252	C1	6/3/2025				
9	I73916253	D1-GE	6/3/2025				
10	I73916254	H01	6/3/2025				
11	I73916255	J1	6/3/2025				
12	I73916256	J2	6/3/2025				
13	I73916257	J3	6/3/2025				
14	I73916258	M01	6/3/2025				
15	I73916259	M02	6/3/2025				
16	I73916260	M03	6/3/2025				
17	I73916261	M04	6/3/2025				
18	I73916262	M05	6/3/2025				
19	I73916263	M06	6/3/2025				
20	I73916264	P1	6/3/2025				

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

Truss Design Engineer's Name: Gilbert, Eric

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

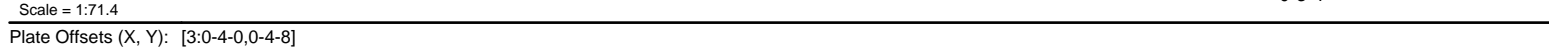
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



June 03, 2025

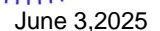
Comtech, Inc, Fayetteville, NC - 28314, Run: 8.630 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:21 Page: 1
ID:RoFQORvmtbuV?DZjm98VbzzKksg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC7f



LUMBER		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.
TOP CHORD	2x6 SP No.1	
BOT CHORD	2x6 SP No.1	
WEBS	2x4 SP No.2	
WEDGE	Left: 2x4 SP No.2	
BRACING		5) Bearings are assumed to be: , Joint 2 SP No.1 crushing capacity of 565 psi.
TOP CHORD	Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.	6) Refer to girder(s) for truss to truss connections.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2 and 77 lb uplift at joint 8.
WEBS	1 Row at midpt 5-8	LOAD CASE(S) Standard
REACTIONS	(size) 2=0-3-8, 8= Mechanical Max Horiz 2=262 (LC 7) Max Uplift 2=-108 (LC 10), 8=-77 (LC 11) Max Grav 2=1566 (LC 17), 8=1459 (LC 18)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/0, 2-4=-2046/475, 4-5=-1435/403, 5-6=-60/90, 6-8=-81/29	
BOT CHORD	2-11=-316/1778, 9-11=-95/1061, 8-9=-189/978, 7-8=0/0	
WEBS	3-11=-463/309, 4-11=-177/1167, 4-9=-94/353, 5-9=-37/341, 5-8=-1610/322	

- 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 108 lb uplift at joint 2 and 77 lb uplift at joint 8.

LOAD CASE(S) Standard

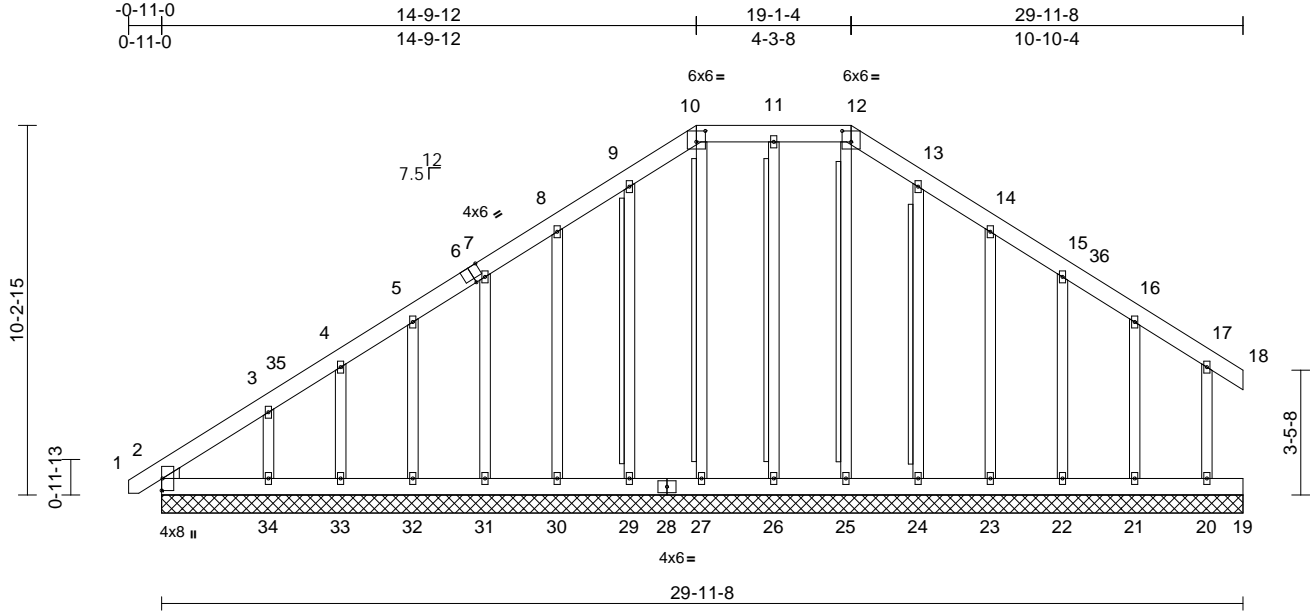


Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916246
J0325-1595	A1-GE	GABLE	1	1	Job Reference (optional)	

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Page: 1



Scale = 1:63.8

Plate Offsets (X, Y): [6:0-3-0,Edge], [10:0-3-0,0-3-10], [12:0-3-0,0-3-10]

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	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	18	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
										Weight: 284 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)
WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 10-27, 9-29, 11-26, 12-25, 13-24
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, 18=29-11-8, 19=29-11-8, 20=29-11-8, 21=29-11-8, 22=29-11-8, 23=29-11-8, 24=29-11-8, 25=29-11-8, 26=29-11-8, 27=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
Max Horiz 2=283 (LC 7)
Max Uplift 2=-135 (LC 6), 18=-18 (LC 11), 20=-66 (LC 11), 21=-90 (LC 11), 22=-86 (LC 11), 23=-97 (LC 11), 24=-57 (LC 11), 25=-11 (LC 7), 26=-64 (LC 7), 27=-49 (LC 7), 29=-69 (LC 10), 30=-93 (LC 10), 31=-86 (LC 10), 32=-88 (LC 10), 33=-73 (LC 10), 34=-172 (LC 10)

Max Grav 2=240 (LC 18), 18=23 (LC 18), 19=10 (LC 3), 20=141 (LC 18), 21=183 (LC 18), 22=174 (LC 18), 23=180 (LC 18), 24=165 (LC 18), 25=174 (LC 20), 26=179 (LC 1), 27=194 (LC 20), 29=178 (LC 17), 30=176 (LC 17), 31=174 (LC 17), 32=179 (LC 17), 33=151 (LC 17), 34=284 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-330/318, 3-4=-251/246, 4-5=-229/241, 5-7=-212/246, 7-8=-192/286, 8-9=-175/329, 9-10=-193/354, 10-11=-174/321, 11-12=-174/321, 12-13=-193/341, 13-14=-164/287, 14-15=-123/213, 15-16=-86/144, 16-17=-45/73, 17-18=-9/24
BOT CHORD 2-34=-1/1, 33-34=-1/1, 32-33=-1/1, 31-32=-1/1, 30-31=-1/1, 29-30=-1/1, 27-29=-1/1, 26-27=-2/0, 25-26=-2/0, 24-25=0/0, 23-24=0/0, 22-23=0/0, 21-22=0/0, 20-21=0/0, 19-20=0/0
WEBS 10-27=-154/69, 9-29=-138/89, 8-30=-136/113, 7-31=-135/106, 5-32=-136/107, 4-33=-123/95, 3-34=-213/186, 11-26=-139/84, 12-25=-134/31, 13-24=-125/77, 14-23=-140/117, 15-22=-135/106, 16-21=-142/111, 17-20=-106/83

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-13 to 3-8-0, Exterior(2N) 3-8-0 to 10-5-7, Corner(3R) 10-5-7 to 23-6-9, Exterior (2N) 23-6-9 to 25-7-3, Corner(3E) 25-7-3 to 30-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 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.



June 3,2025

Continued on page 2

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

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

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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing
J0325-1595	A1-GE	GABLE	1	1	I73916246
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 2

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 18, 135 lb uplift at joint 2, 49 lb uplift at joint 27, 69 lb uplift at joint 29, 93 lb uplift at joint 30, 86 lb uplift at joint 31, 88 lb uplift at joint 32, 73 lb uplift at joint 33, 172 lb uplift at joint 34, 64 lb uplift at joint 26, 11 lb uplift at joint 25, 57 lb uplift at joint 24, 97 lb uplift at joint 23, 86 lb uplift at joint 22, 90 lb uplift at joint 21 and 66 lb uplift at joint 20.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



June 3,2025

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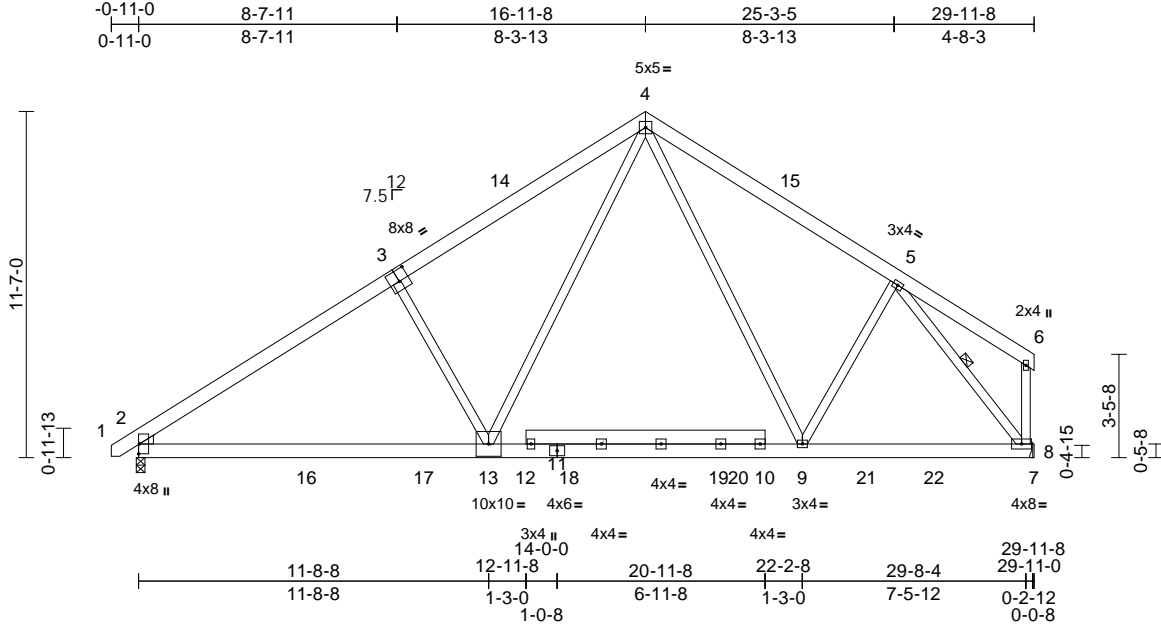
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	
J0325-1595	A2	COMMON	5	1	Job Reference (optional)	I73916247

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Page: 1



Scale = 1:77.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.20	2-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.32	2-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	2-13	>999	240	Weight: 243 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 4-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-8

REACTIONS

(size) 2=0-3-8, 8= Mechanical
Max Horiz 2=262 (LC 7)
Max Uplift 2=22 (LC 10)
Max Grav 2=1644 (LC 17), 8=1563 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-4=-2184/319, 4-5=-1544/268, 5-6=-65/90, 6-8=-84/28
BOT CHORD 2-13=-187/1891, 9-13=-36/1145, 8-9=-102/1049, 7-8=0/0
WEBS 3-13=-455/318, 4-13=-71/1266, 4-9=-31/397, 5-9=0/385, 5-8=-1725/173

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-13 to 3-8-0, Interior (1) 3-8-0 to 12-7-3, Exterior(2R) 12-7-3 to 21-4-13, Interior (1) 21-4-13 to 25-3-15, Exterior(2E) 25-3-15 to 29-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 16-11-8 from left end, supported at two points, 5-0-0 apart.

- 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.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2.

LOAD CASE(S) Standard



June 3, 2025

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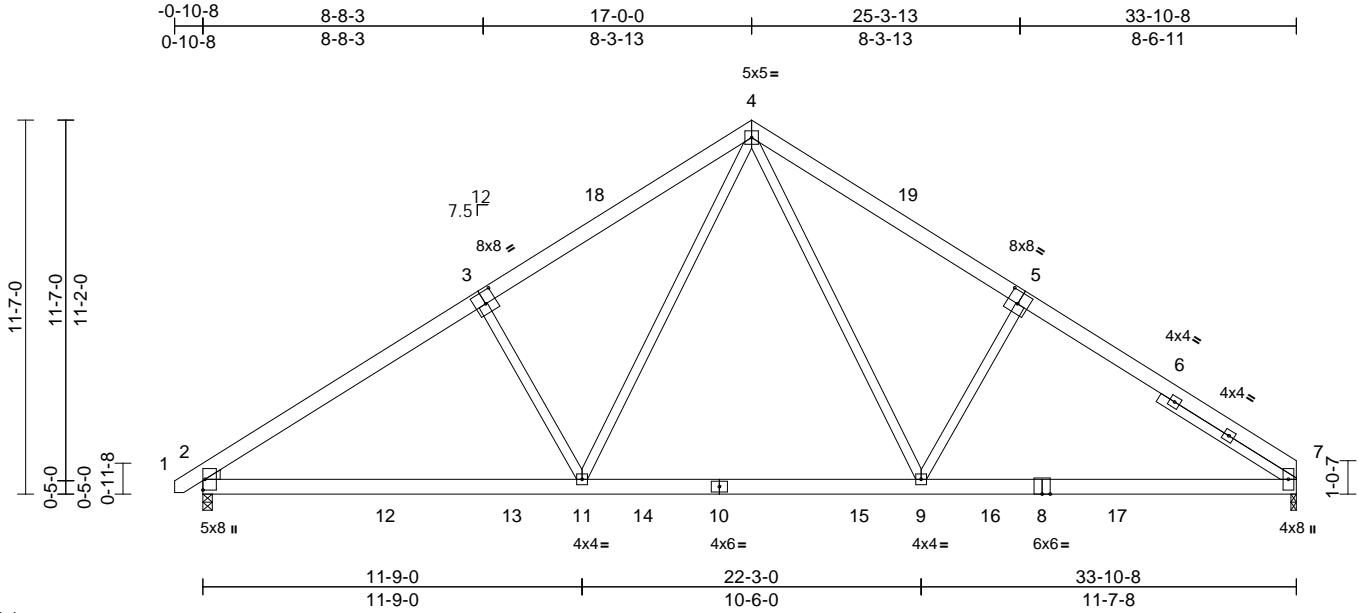
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916248
J0325-1595	A3	Common	4	1	Job Reference (optional)	

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Page: 1



Scale = 1:71.4

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [7:0-4-7,0-0-15]

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	0.37	Vert(LL)	-0.21	2-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.35	2-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	2-11	>999	240	Weight: 238 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 8-7:2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 4-11-8

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 7=0-2-0
Max Horiz 2=-266 (LC 6)
Max Uplift 2=-118 (LC 10), 7=-106 (LC 11)
Max Grav 2=1778 (LC 17), 7=1728 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-4=-2419/550, 4-7=-2391/545
BOT CHORD 2-11=-263/2110, 9-11=-42/1416, 7-9=-260/1887
WEBS 4-11=-180/1127, 3-11=-451/308, 4-9=-175/1079, 5-9=-435/307

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-13 to 3-8-0, Interior (1) 3-8-0 to 12-7-3, Exterior(2R) 12-7-3 to 21-4-13, Interior (1) 21-4-13 to 29-5-11, Exterior(2E) 29-5-11 to 33-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 7 SP 2400F 2.0E crushing capacity of 805 psi.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2 and 106 lb uplift at joint 7.
- LOAD CASE(S)** Standard



June 3, 2025

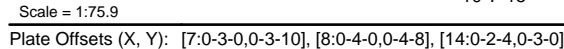
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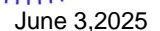
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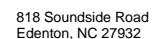
LUMBER		2)	Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mpg; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-13 to 3-8-0, Interior (1) 3-8-0 to 11-7-3, Exterior(2R) 11-7-3 to 19-1-11, Exterior (2E) 16-0-10 to 17-0-15, Interior (1) 19-1-11 to 29-5-11, Exterior(2E) 29-5-11 to 33-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.1		
BOT CHORD	2x6 SP No.1	3)	Provide adequate drainage to prevent water ponding.
WEBS	2x4 SP No.2	4)	All plates are 2x4 MT20 unless otherwise indicated.
OTHERS	2x4 SP No.2 *Except* 0-0:2x4 SPF No.2(flat)	5)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEDGE	Left: 2x4 SP No.2	6)	* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
SLIDER	Right 2x4 SP No.2 -- 1-6-8	7)	All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
BRACING		8)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 2 and 325 lb uplift at joint 14.
TOP CHORD	Structural wood sheathing directly applied or 4-11-4 oc purlins. Except:	9)	Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
T-Brace:	2x4 SPF No.2 - 6-10	10)	Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
1 Row at midpt	10-14		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
JOINTS	1 Brace at Jt(s): 10		
REACTIONS	(size) 2=0-3-8, 14=0-3-8 Max Horiz 2=313 (LC 8) Max Uplift 2=307 (LC 10), 14=325 (LC 11) Max Grav 2=1679 (LC 17), 14=1741 (LC 18)		
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/0, 2-3=-2289/423, 3-5=-2137/508, 5-6=-1792/479, 6-10=-1416/242, 10-11=-1405/228, 11-14=-1531/381, 6-7=-534/352, 7-9=-697/353, 9-13=-687/79 2-18=-414/2031, 16-18=-108/1350,		
BOT CHORD			

NOTES

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



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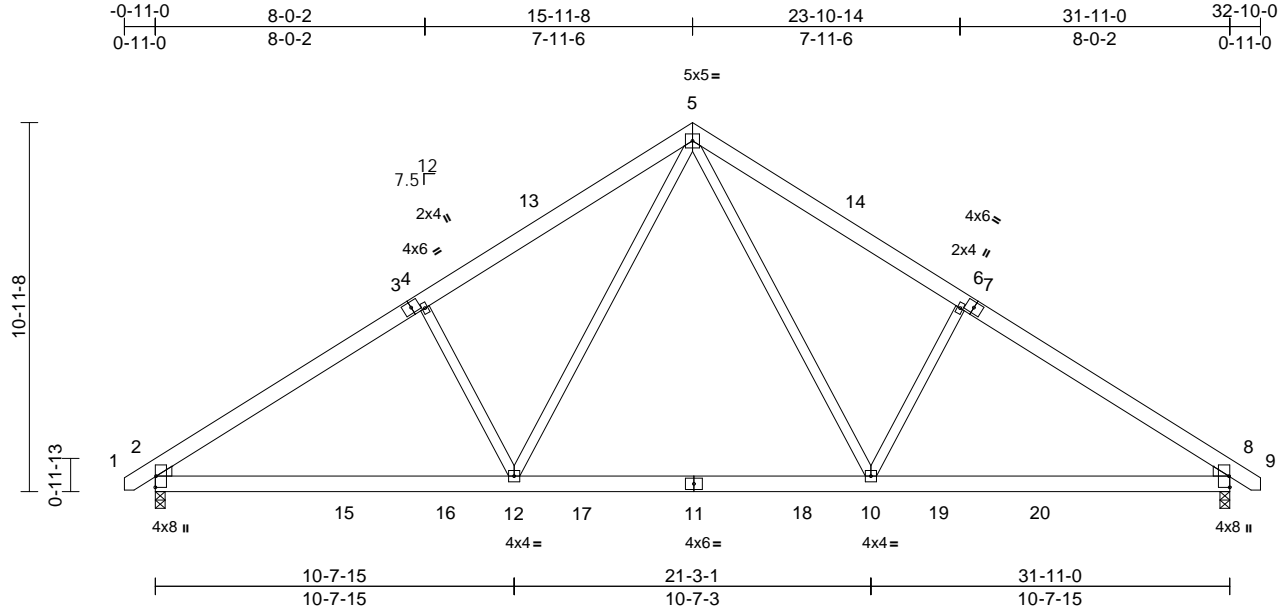
Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916250
J0325-1595	B1	COMMON	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:23

Page: 1

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Scale = 1:68.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.16	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	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: 220 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-14 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=251 (LC 7)
Max Uplift 2=-112 (LC 10), 8=-112 (LC 11)
Max Grav 2=1655 (LC 17), 8=1655 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-4=-2254/444, 4-5=-2099/521, 5-6=-2100/521, 6-8=-2254/444, 8-9=0/0
BOT CHORD 2-12=-246/1958, 10-12=-39/1302, 8-10=-246/1772
WEBS 5-10=-168/1050, 6-10=-402/288, 5-12=-168/1049, 4-12=-402/288

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-13 to 3-8-0, Interior (1) 3-8-0 to 11-7-3, Exterior(2R) 11-7-3 to 20-4-13, Interior (1) 20-4-13 to 28-4-0, Exterior(2E) 28-4-0 to 32-8-13 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 112 lb uplift at joint 2 and 112 lb uplift at joint 8.

LOAD CASE(S) Standard



June 3, 2025

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

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

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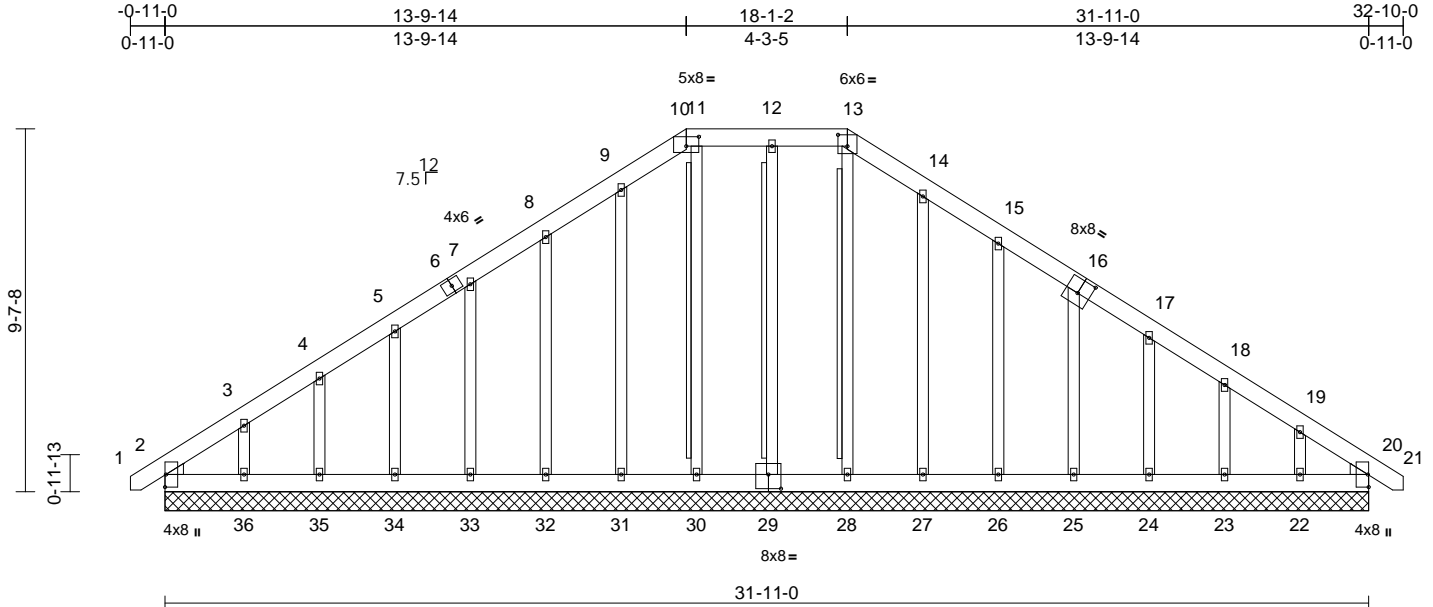
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916251
J0325-1595	B1-GE	HIP SUPPORTED GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:61.1												
Plate Offsets (X, Y): [10:0-4-0,0-3-0], [13:0-3-0,0-3-10], [16:0-4-0,0-4-8], [29:0-4-0,0-4-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 286 lb	FT = 20%

LUMBER		Max Grav	2=203 (LC 18), 20=149 (LC 20), 22=186 (LC 18), 23=178 (LC 18), 24=163 (LC 18), 25=174 (LC 18), 26=187 (LC 18), 27=174 (LC 18), 28=144 (LC 24), 29=164 (LC 24), 30=166 (LC 20), 31=176 (LC 17), 32=177 (LC 17), 33=175 (LC 17), 34=176 (LC 17), 35=172 (LC 17), 36=218 (LC 17)	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-13 to 3-8-0, Exterior(2N) 3-8-0 to 9-5-9, Corner(3R) 9-5-9 to 22-6-7, Exterior(2N) 22-6-7 to 28-1-10, Corner(3E) 28-1-10 to 32-8-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.1			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.
BOT CHORD	2x6 SP No.1			4) Provide adequate drainage to prevent water ponding.
OTHERS	2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)			5) All plates are 2x4 MT20 unless otherwise indicated.
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2			6) Gable requires continuous bottom chord bearing.
BRACING		FORCES	(lb) - Maximum Compression/Maximum Tension	7) Gable studs spaced at 2-0-0 oc.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	TOP CHORD	10-11=-159/257, 11-12=-159/257, 12-13=-160/257, 1-2=0/0, 2-3=-280/241, 3-4=-187/184, 4-5=-160/165, 5-7=-143/161, 7-8=-129/196, 8-9=-149/239, 9-10=-176/269, 13-14=-178/271, 14-15=-145/212, 15-17=-103/141, 17-18=-85/57, 18-19=-111/76, 19-20=-201/119, 20-21=0/0	8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	BOT CHORD	2-36=97/188, 35-36=97/188, 34-35=97/188, 33-34=97/188, 32-33=97/188, 31-32=97/188, 30-31=97/188, 28-30=97/188, 27-28=97/188, 26-27=97/188, 25-26=97/188, 24-25=93/184, 23-24=93/184, 22-23=93/184, 20-22=93/184	9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
WEBS	T-Brace: 2x4 SPF No.2 - 13-28, 12-29, 11-30 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.	WEBS	13-28=-102/5, 12-29=-124/68, 11-30=-127/51, 9-31=-135/82, 8-32=-137/114, 7-33=-135/106, 5-34=-135/106, 4-35=-135/106, 3-36=-167/162, 14-27=-135/92, 15-26=-147/120, 16-25=-134/107, 17-24=-123/95, 18-23=-139/110, 19-22=-141/144	
REACTIONS	(size)			
	2=31-11-0, 20=31-11-0, 22=31-11-0, 23=31-11-0, 24=31-11-0, 25=31-11-0, 26=31-11-0, 27=31-11-0, 28=31-11-0, 29=31-11-0, 30=31-11-0, 31=31-11-0, 32=31-11-0, 33=31-11-0, 34=31-11-0, 35=31-11-0, 36=31-11-0			
Max Horiz	2=-275 (LC 6)			
Max Uplift	2=-102 (LC 6), 20=-29 (LC 7), 22=-132 (LC 11), 23=-88 (LC 11), 24=-75 (LC 11), 25=-87 (LC 11), 26=-100 (LC 11), 27=-72 (LC 11), 29=-48 (LC 7), 30=-32 (LC 7), 31=-61 (LC 10), 32=-94 (LC 10), 33=-86 (LC 10), 34=-86 (LC 10), 35=-84 (LC 10), 36=-150 (LC 10)			
NOTES				
	1) Unbalanced roof live loads have been considered for this design.			



June 3,2025

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 79 Ducks Landing
J0325-1595	B1-GE	HIP SUPPORTED GABLE	1	1	I73916251
Job Reference (optional)					

- 10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 48 lb uplift at joint 29, 32 lb uplift at joint 30, 61 lb uplift at joint 31, 94 lb uplift at joint 32, 86 lb uplift at joint 33, 86 lb uplift at joint 34, 84 lb uplift at joint 35, 150 lb uplift at joint 36, 72 lb uplift at joint 27, 100 lb uplift at joint 26, 87 lb uplift at joint 25, 75 lb uplift at joint 24, 88 lb uplift at joint 23, 132 lb uplift at joint 22 and 29 lb uplift at joint 20.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- LOAD CASE(S) Standard



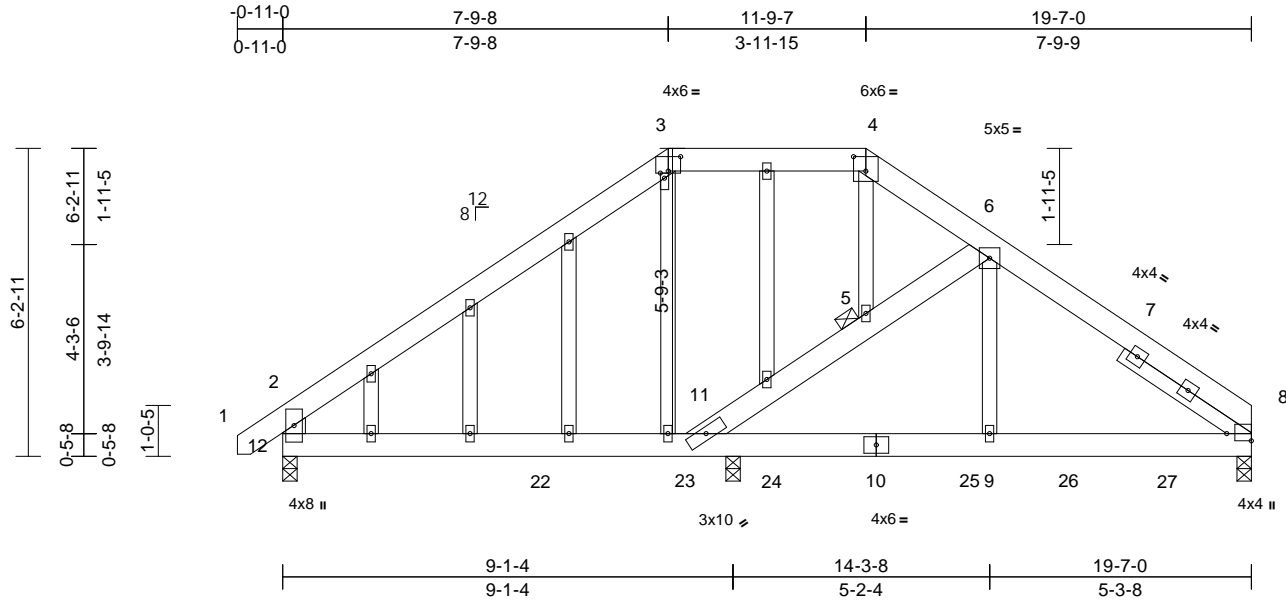
June 3,2025

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916252
J0325-1595	C1	GABLE	1	1	Job Reference (optional)	

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Page: 1



Scale = 1:46.6

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

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	0.26	Vert(LL)	-0.06	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.10	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.02	11-12	>999	240	Weight: 160 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-2:2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 3-1-0

BRACING

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

JOINTS 1 Brace at Jt(s): 5

REACTIONS	(size)	8=0-3-8, 11=0-3-8, 12=0-3-8
	Max Horiz	12=176 (LC 7)
	Max Uplift	8=-114 (LC 8), 12=-285 (LC 27)
	Max Grav	8=919 (LC 1), 11=879 (LC 16), 12=719 (LC 15)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/34, 2-3=-690/319, 4-6=-548/401, 6-8=-1096/209, 5-11=-573/102, 5-6=-568/95, 2-12=-623/331, 3-4=-454/358
BOT CHORD	11-12=-262/484, 9-11=-90/807, 8-9=-90/807
WEBS	6-9=0/459, 4-5=-168/129

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Solid blocking is required on both sides of the truss at joint(s), 11.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 8 and 285 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down at 9-11-4, 117 lb down at 11-11-4, 117 lb down at 13-11-4, and 117 lb down at 15-11-4, and 117 lb down at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-6=-60, 6-8=-60, 8-12=-20, 3-4=-60
Concentrated Loads (lb)
Vert: 10=-117 (F), 24=-117 (F), 25=-117 (F), 26=-117 (F), 27=-117 (F)



June 3,2025

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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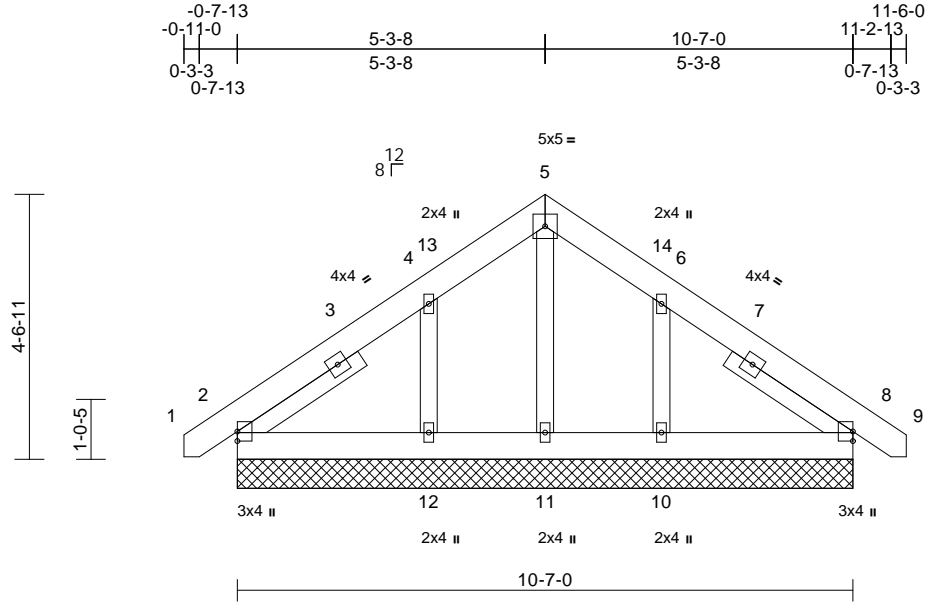
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	
J0325-1595	D1-GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	I73916253

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:39.6

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 80 lb FT = 20%

LUMBER

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

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=10-7-0, 8=10-7-0, 10=10-7-0, 11=10-7-0, 12=10-7-0
	Max Horiz	2=-121 (LC 8)
	Max Uplift	2=-52 (LC 11), 8=-49 (LC 11), 10=-150 (LC 11), 12=-156 (LC 10)
	Max Grav	2=208 (LC 1), 8=208 (LC 1), 10=277 (LC 18), 11=105 (LC 11), 12=284 (LC 17)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/0, 2-4=-163/79, 4-5=-142/232, 5-6=-142/232, 6-8=-132/65, 8-9=0/0
BOT CHORD	2-12=-29/79, 11-12=-29/79, 10-11=-29/79, 8-10=-29/79
WEBS	5-11=-165/60, 4-12=-208/278, 6-10=-201/278

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-15 to 3-7-14, Corner(3R) 3-7-14 to 7-0-2, Corner(3E) 7-0-2 to 11-4-15 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 49 lb uplift at joint 8, 156 lb uplift at joint 12 and 150 lb uplift at joint 10.

LOAD CASE(S) Standard



June 3,2025

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

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

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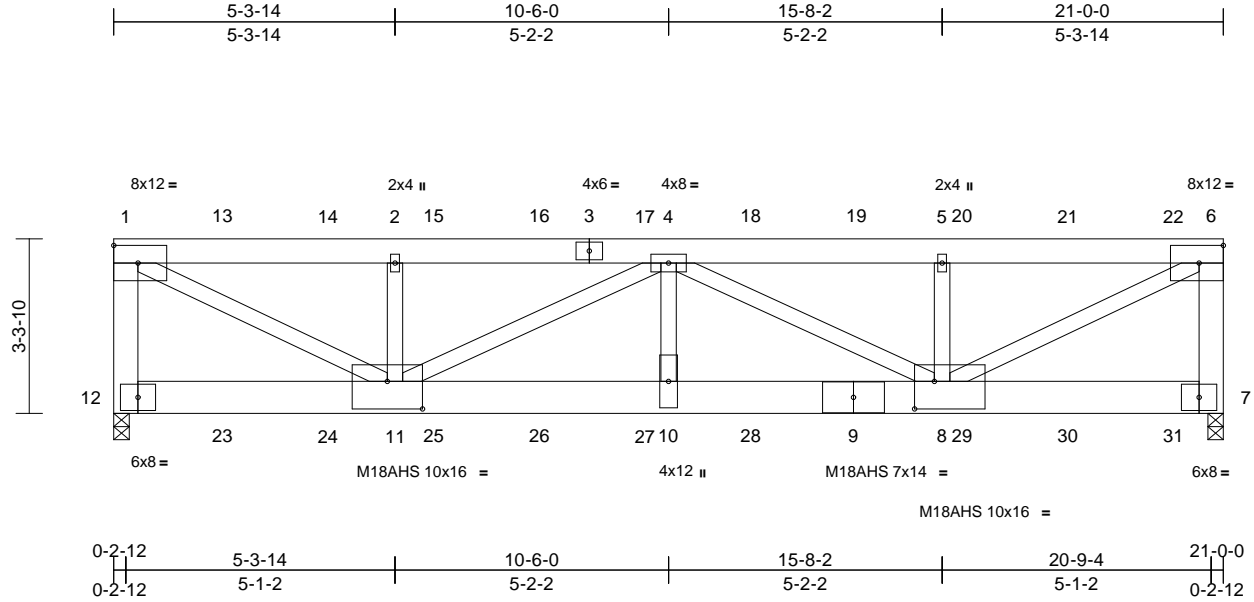
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916254
J0325-1595	H01	Flat Girder	1	2	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 Jun 03 07:30:24
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Page: 1



Scale = 1:43.6

Plate Offsets (X, Y): [8:0-4-8,0-6-4], [11:0-8-0,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.18	10-11	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.32	8-10	>771	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.05	7	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	10-11	>999	240	Weight: 331 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* 12-1,6-7:2x6 SP No.1,
11-1,8-6:2x4 SP 2400F 2.0E

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) 7=0-3-8, 12=0-3-8
Max Uplift 12=109 (LC 4)
Max Grav 7=9064 (LC 15), 12=7943 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-12=-6719/75, 1-2=-12255/0, 2-4=-12255/0,
4-5=-12580/0, 5-6=-12580/0, 6-7=-6923/0
BOT CHORD 11-12=-20/395, 10-11=0/16332,
8-10=0/16332, 7-8=0/436
WEBS 1-11=0/13501, 2-11=-315/239, 4-11=-4624/0,
4-10=0/3782, 4-8=-4256/658, 5-8=-299/261,
6-8=0/13824

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 0-5-0 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.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber
DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- Bearing at joint(s) 12, 7 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 109 lb uplift at
joint 12.

- Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 97 lb
down and 49 lb up at 2-0-12, 97 lb down and 49 lb up at
4-0-12, 97 lb down and 49 lb up at 6-0-12, 97 lb down
and 49 lb up at 8-0-12, 97 lb down and 49 lb up at
10-0-12, 90 lb down and 38 lb up at 12-0-12, 90 lb
down and 38 lb up at 14-0-12, 90 lb down and 38 lb up
at 16-0-12, and 90 lb down and 38 lb up at 18-0-12,
and 87 lb down and 41 lb up at 20-0-12 on top chord,
and 30 lb down at 2-0-12, 1439 lb down and 87 lb up at
2-0-12, 30 lb down at 4-0-12, 1439 lb down and 87 lb
up at 4-0-12, 30 lb down at 6-0-12, 1439 lb down and
87 lb up at 6-0-12, 30 lb down at 8-0-12, 1439 lb down
and 87 lb up at 8-0-12, 30 lb down at 10-0-12, 1439 lb
down and 87 lb up at 10-0-12, 30 lb down at 12-0-12,
1543 lb down at 12-0-12, 30 lb down at 14-0-12, 1543
lb down at 14-0-12, 30 lb down at 16-0-12, 1543 lb
down at 16-0-12, 30 lb down at 18-0-12, 1543 lb down
at 18-0-12, and 33 lb down at 20-0-12, and 1546 lb
down at 20-0-12 on bottom chord. The design/selection
of such connection device(s) is the responsibility of
others.

LOAD CASE(S) Standard



June 3,2025

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 79 Ducks Landing
J0325-1595	H01	Flat Girder	1	2	I73916254
					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 Jun 03 07:30:24
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Page: 2

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 9=-1299 (F=-19, B=-1280), 13=-39 (F), 14=-39 (F), 15=-39 (F), 16=-39 (F), 17=-39 (F), 18=-38 (F), 19=-38 (F), 20=-38 (F), 21=-38 (F), 22=-47 (F), 23=-1181 (F=-15, B=-1166), 24=-1181 (F=-15, B=-1166), 25=-1181 (F=-15, B=-1166), 26=-1181 (F=-15, B=-1166), 27=-1181 (F=-15, B=-1166), 28=-1299 (F=-19, B=-1280), 29=-1299 (F=-19, B=-1280), 30=-1299 (F=-19, B=-1280), 31=-1304 (F=-22, B=-1283)



June 3, 2025

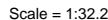
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24 Page: 1
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LUMBER

- 6) * This truss has been designed for a live load of 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 6 and 68 lb uplift at joint 7.

BRACING

LOAD CASE(S) Standard

REACTIONS

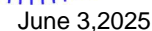
(size) 2=3-8-8, 6=3-8-8, 7=3-8-8
 Max Horiz 2=90 (LC 10)
 Max Uplift 6=-23 (LC 10), 7=-68 (LC 10)
 Max Grav 2=113 (LC 1), 6=68 (LC 17), 7=172 (LC 17)

FORCES

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/0, 2-3=-171/103, 3-4=-41/22, 4-5=-3/0, 4-6=-55/53
BOT CHORD	2-7=0/0, 6-7=0/0
WEBS	3-7=-161/193

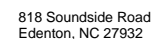
NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCdL=6.0psf; BCDL=5.0psf; 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) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.



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

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

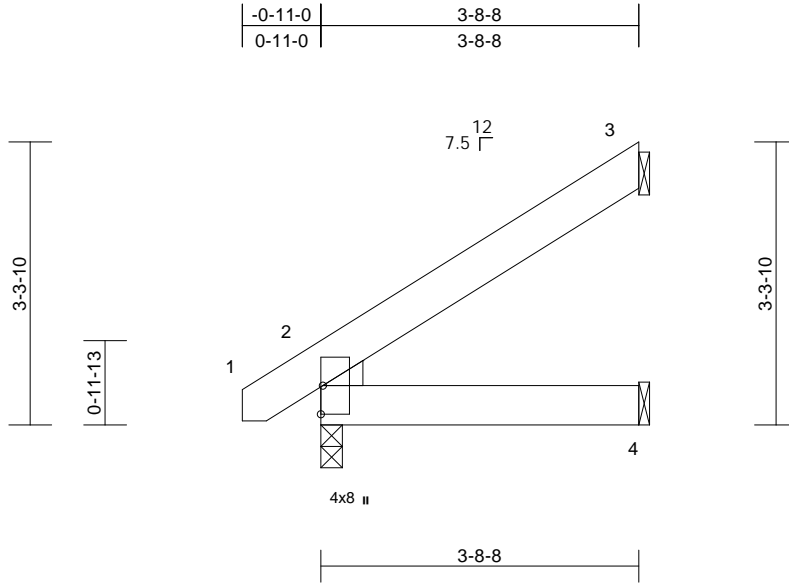


Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	
J0325-1595	J2	Jack-Open	5	1	Job Reference (optional)	I73916256

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	0.07	Vert(LL)	0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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: 23 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=90 (LC 10)
Max Uplift 3=70 (LC 10)
Max Grav 2=202 (LC 1), 3=113 (LC 17), 4=70 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/0, 2-3=-123/76
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 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 at joint(s) 2.



June 3, 2025

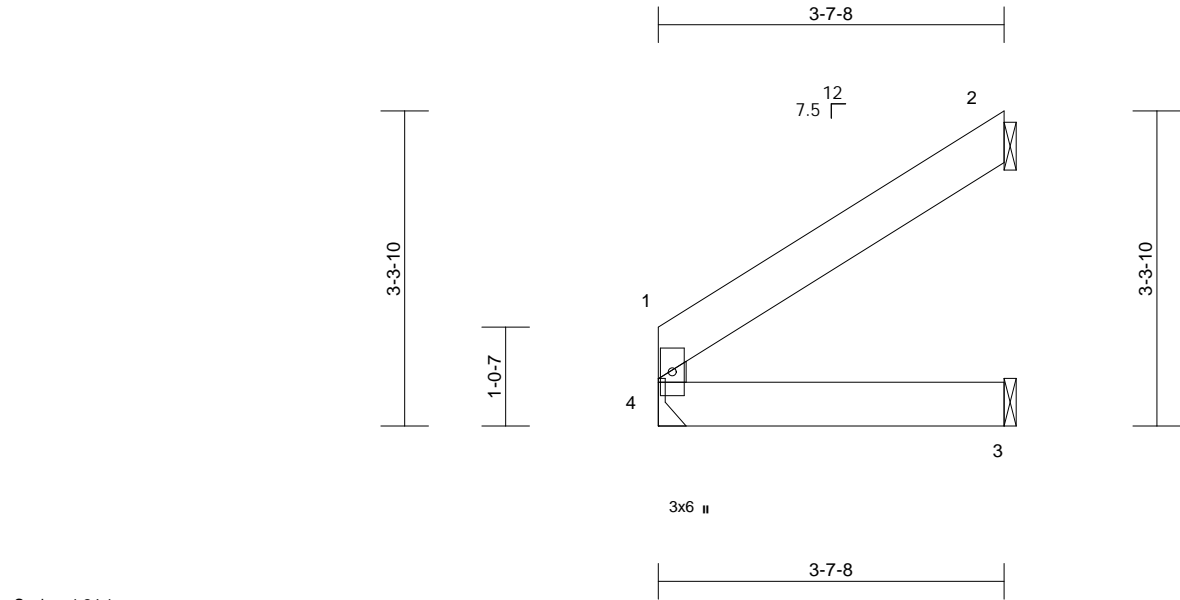
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing
J0325-1595	J3	Jack-Open	5	1	173916257
					Job Reference (optional)



Scale = 1:24.1												
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	0.13	Vert(LL)	0.00	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4= Mechanical
Max Horiz 4=70 (LC 10)
Max Uplift 2=-58 (LC 10)
Max Grav 2=108 (LC 17), 3=67 (LC 3), 4=137 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-107/45, 1-2=-93/57
BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2.

LOAD CASE(S) Standard



June 3,2025

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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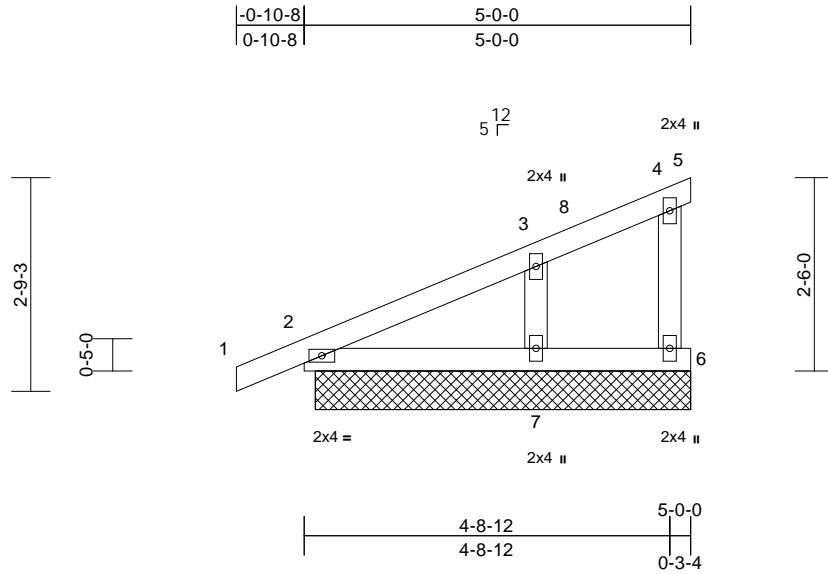
Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing
J0325-1595	M01	Monopitch Supported Gable	1	1	Job Reference (optional)
					I73916258

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24

Page: 1

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Scale = 1:29.8

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	0.10	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	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
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5'-0" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS	(size)	2=4-10-4, 5=4-10-4, 6=4-10-4, 7=4-10-4
	Max Horiz	2=78 (LC 10)
	Max Uplift	2=-14 (LC 6), 5=-7 (LC 10), 6=-7 (LC 10), 7=-51 (LC 10)
	Max Grav	2=160 (LC 1), 5=11 (LC 1), 6=39 (LC 1), 7=237 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/15, 2-3=-196/75, 3-4=-35/10, 4-5=-12/7, 4-6=-32/40
BOT CHORD	2-7=0/0, 6-7=0/0
WEBS	3-7=-191/362

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 5-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 7 lb uplift at joint 6, 14 lb uplift at joint 2 and 51 lb uplift at joint 7.
- 8) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard



June 3,2025

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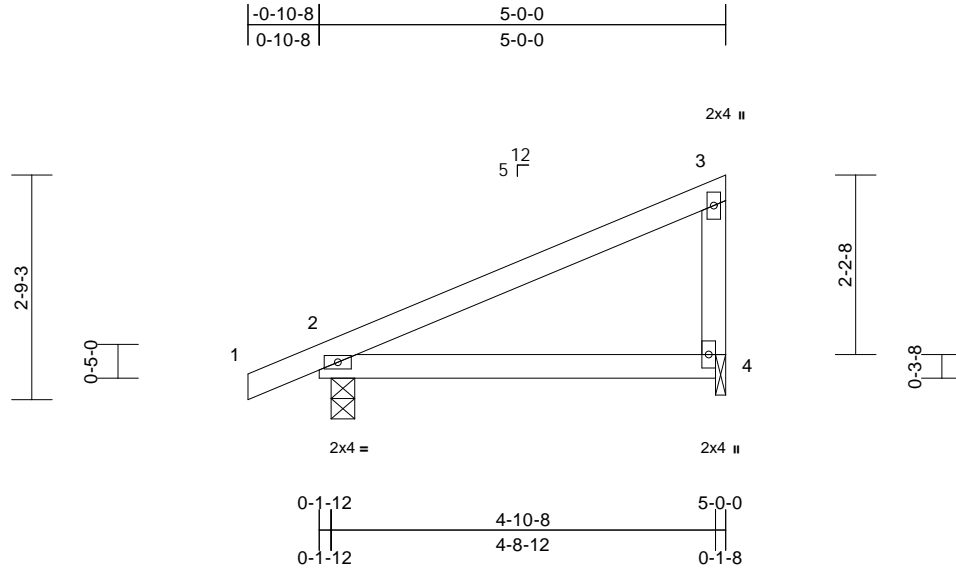
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916259
J0325-1595	M02	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 Jun 03 07:30:24
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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	0.43	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.08	2-4	>668	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 69 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-1-8
Max Horiz 2=76 (LC 10)
Max Uplift 2=-76 (LC 6), 4=-69 (LC 7)
Max Grav 2=256 (LC 1), 4=182 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-103/55, 3-4=-142/194
BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 4 SP No.2 crushing capacity of 565 psi, Joint 2 SP No.1 crushing capacity of 565 psi.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.



June 3, 2025

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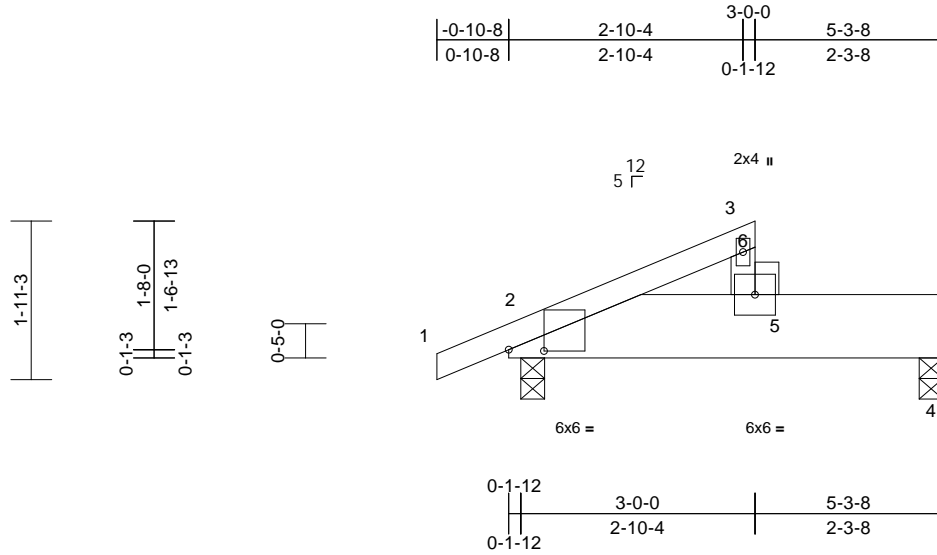
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916260
J0325-1595	M03	Roof Special	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 Jun 03 07:30:24
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Page: 1



Scale = 1:28.1

Plate Offsets (X, Y): [2:0-5-2,0-0-3]

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	0.55	Vert(LL)	-0.03	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.05	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.11	2-5	>531	240	Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-4 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=47 (LC 10)
Max Uplift 2=367 (LC 6), 4=426 (LC 7)
Max Grav 2=1180 (LC 1), 4=1344 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=44/16, 3-5=77/88
BOT CHORD 2-5=12/11, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) 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 20.0psf
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 2400F 2.0E crushing
capacity of 805 psi.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 426 lb uplift at
joint 4 and 367 lb uplift at joint 2.

- 6) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 2200
lb down and 4216 lb up at 3-1-12 on bottom chord. The
design/selection of such connection device(s) is the
responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=-2200



June 3, 2025

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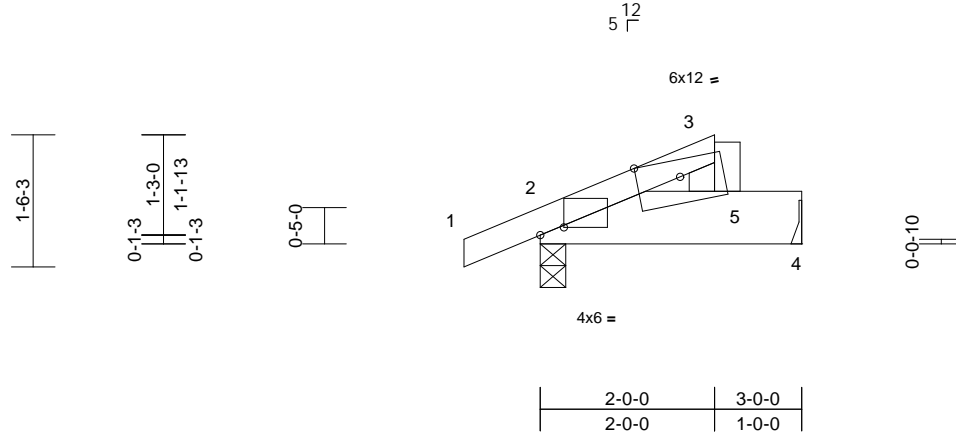
Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing
J0325-1595	M04	Roof Special	6	1	173916261
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

-0-10-8	2-0-0	3-0-0
0-10-8	2-0-0	1-0-0



Scale = 1:26.4

Plate Offsets (X, Y): [2:0-3-4,0-1-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Wind(LL)	0.01	2-5	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 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, 4= Mechanical
Max Horiz 2=34 (LC 10)
Max Uplift 2=-53 (LC 10), 4=-47 (LC 10)
Max Grav 2=390 (LC 1), 4=432 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-28/19, 3-5=-56/53
BOT CHORD 2-5=0/0, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 20.0psf
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 53 lb uplift at joint
2 and 47 lb uplift at joint 4.

- 7) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 600
lb down and 447 lb up at 2-1-12 on bottom chord. The
design/selection of such connection device(s) is the
responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face
of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=-600 (F)



June 3, 2025

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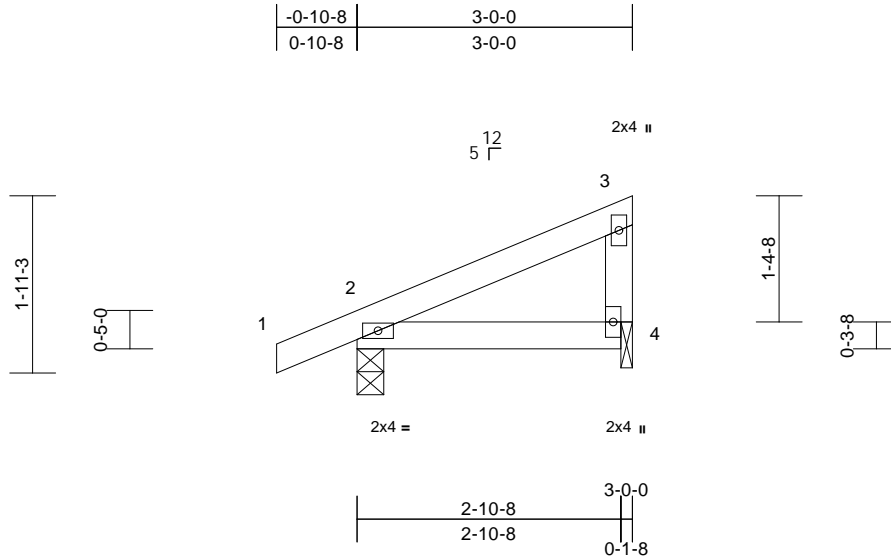
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing
J0325-1595	M05	Monopitch	5	1	Job Reference (optional)
					I73916262

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24
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Page: 1



Scale = 1:25.1

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	0.08	Vert(LL)	0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2 and 22 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

2=0-3-8, 4=0-1-8
Max Horiz 2=49 (LC 10)
Max Uplift 2=-29 (LC 6), 4=-22 (LC 10)
Max Grav 2=181 (LC 1), 4=97 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-59/34, 3-4=-84/103
BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 4 SP No.2 crushing capacity of 565 psi.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.



June 3, 2025

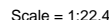
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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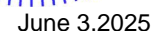
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Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24 Page: 1
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- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCdL=6.0psf; BCDL=5.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner(3E) zone; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TP1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-0" tall by 2'-0" wide will fit between the bottom
chord and any other members.
- 7) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-1415 (rev. 1/2/2023) BEFORE USE.

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

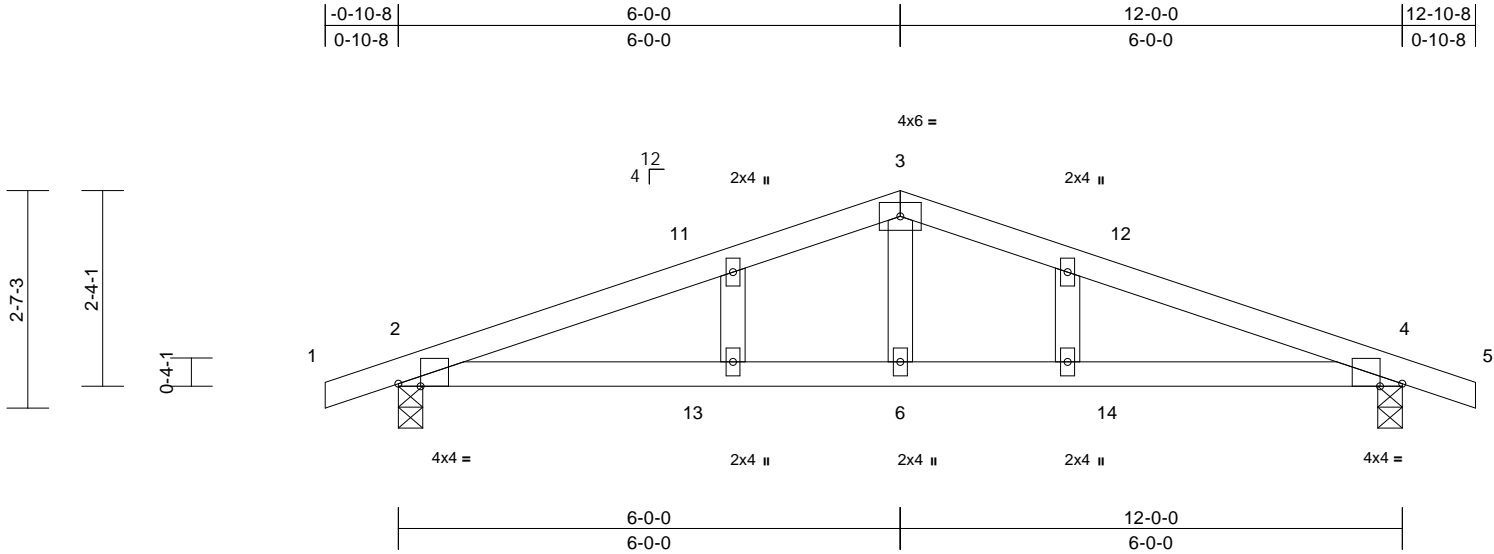
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916264
J0325-1595	P1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24
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Page: 1



Scale = 1:27.5

Plate Offsets (X, Y): [2:0-3-3,Edge], [4:0-3-3,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	0.44	0.12	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	-0.07	4-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 46 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-11-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-11-14 oc bracing.

REACTIONS	(size) 2=0-3-8, 4=0-3-8
	Max Horiz 2=46 (LC 10)
	Max Uplift 2=-305 (LC 6), 4=-305 (LC 7)
	Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/15, 2-3=-859/1553, 3-4=-859/1553, 4-5=0/15
BOT CHORD	2-6=-1375/759, 4-6=-1375/759
WEBS	3-6=-613/281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Exterior(2R) 3-6-5 to 8-5-11, Exterior(2E) 8-5-11 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 2 and 305 lb uplift at joint 4.

LOAD CASE(S) Standard



June 3,2025

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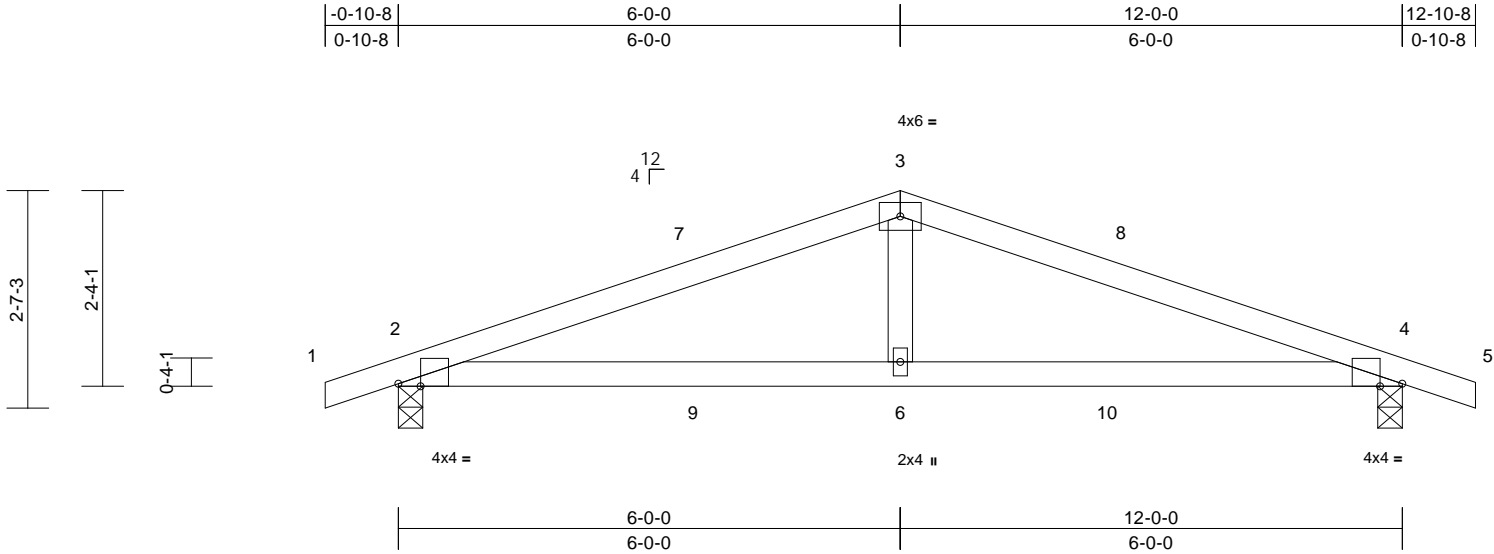
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916265
J0325-1595	P2	Common	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:24
ID:RoFQORvmtbuV?DZjm98VbzzKksg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.5

Plate Offsets (X, Y): [2:0-3-3,Edge], [4:0-3-3,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	0.44	Vert(LL)	0.12	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 217 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-14 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-27 (LC 11)
Max Uplift 2=-217 (LC 6), 4=-217 (LC 7)
Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-859/1553, 3-4=-859/1553, 4-5=0/15

BOT CHORD 2-6=-1375/759, 4-6=-1375/759
WEBS 3-6=-613/281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-8 to 3-6-5, Exterior(2R) 3-6-5 to 8-5-11, Exterior(2E) 8-5-11 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 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.



June 3,2025

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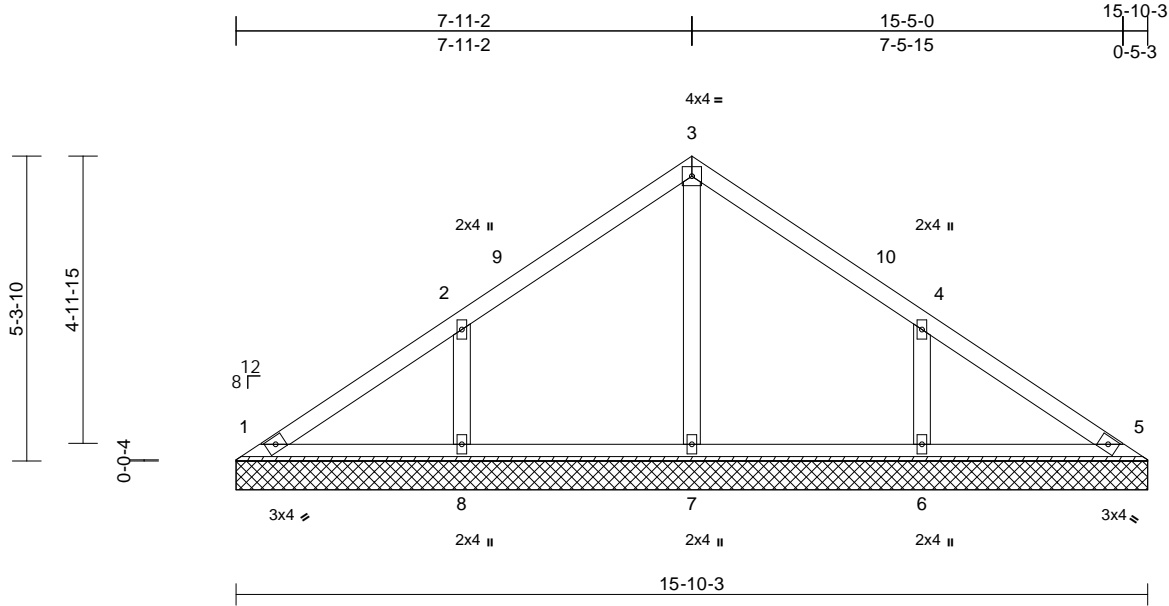
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	173916266
J0325-1595	VC01	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:25
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	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=15-10-3, 5=15-10-3, 6=15-10-3, 7=15-10-3, 8=15-10-3
	Max Horiz	1=119 (LC 7)
	Max Uplift	1=-7 (LC 6), 6=-115 (LC 11), 8=-115 (LC 10)
	Max Grav	1=133 (LC 18), 5=125 (LC 1), 6=378 (LC 18), 7=247 (LC 1), 8=378 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-119/93, 2-3=-127/173, 3-4=-113/173, 4-5=-88/56
BOT CHORD	1-8=-35/104, 7-8=-35/104, 6-7=-35/104, 5-6=-35/104
WEBS	3-7=-171/0, 2-8=-289/331, 4-6=-289/331

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-5-12 to 4-10-9, Corner(3R) 4-10-9 to 11-0-6, Corner(3E) 11-0-6 to 15-5-3 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.
- 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 7 lb uplift at joint 1, 115 lb uplift at joint 8 and 115 lb uplift at joint 6.

LOAD CASE(S) Standard



June 3, 2025

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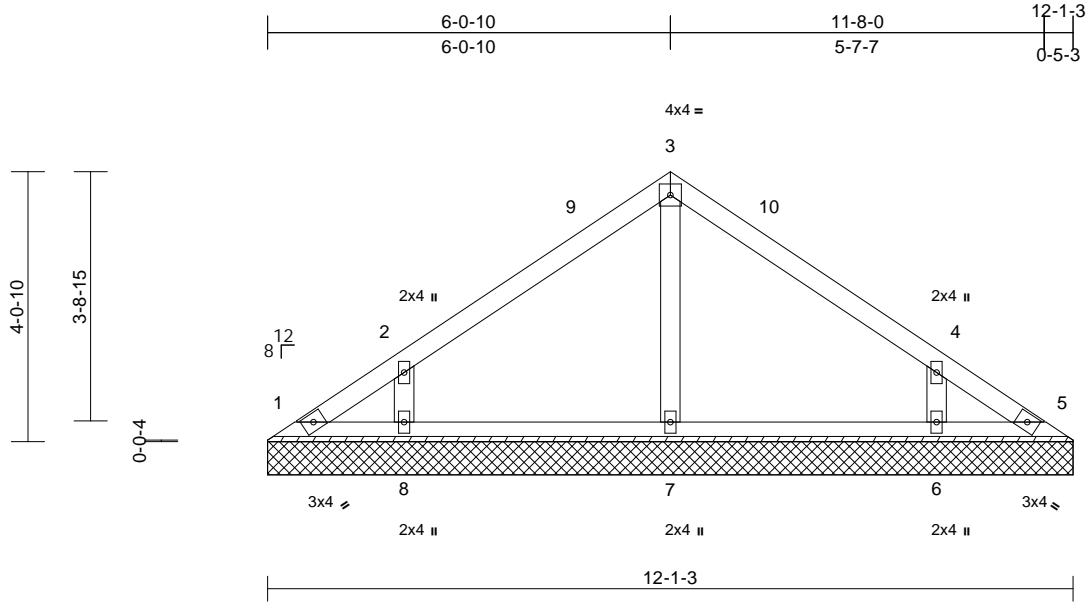
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	I73916267
J0325-1595	VC02	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:34.6

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	0.14	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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 46 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=12-1-3, 5=12-1-3, 6=12-1-3, 7=12-1-3, 8=12-1-3
Max Horiz	1=90 (LC 7)
Max Uplift	1=-30 (LC 8), 5=-12 (LC 9), 6=-99 (LC 11), 8=-100 (LC 10)
Max Grav	1=55 (LC 18), 5=42 (LC 17), 6=314 (LC 18), 7=264 (LC 1), 8=314 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-91/78, 2-3=-122/145, 3-4=-113/145, 4-5=-86/46
BOT CHORD	1-8=-22/71, 7-8=-22/71, 6-7=-22/71, 5-6=-22/71
WEBS	3-7=-178/62, 2-8=-252/350, 4-6=-252/350

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-5-12 to 4-10-9, Corner(3R) 4-10-9 to 7-3-6, Corner(3E) 7-3-6 to 11-8-3 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.
 - 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 30 lb uplift at joint 1, 12 lb uplift at joint 5, 100 lb uplift at joint 8 and 99 lb uplift at joint 6.
- LOAD CASE(S)** Standard



June 3,2025

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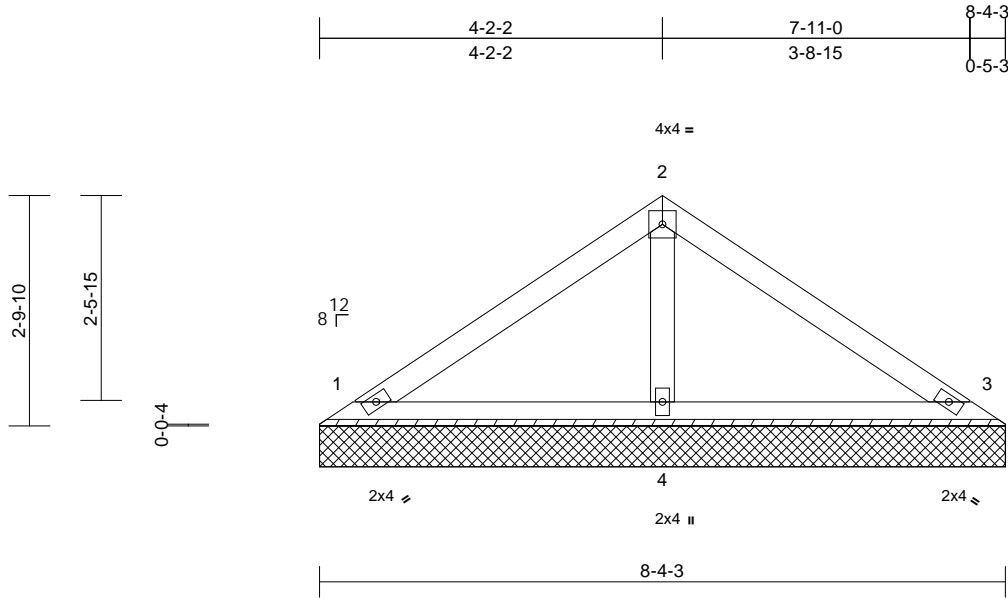
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 79 Ducks Landing	
J0325-1595	VC03	Valley	1	1	Job Reference (optional)	I73916268

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	0.27	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: 29 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=8-4-3, 3=8-4-3, 4=8-4-3
Max Horiz	1=-60 (LC 6)
Max Uplift	1=-28 (LC 10), 3=-34 (LC 11)
Max Grav	1=162 (LC 1), 3=162 (LC 1), 4=272 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-98/97, 2-3=-90/97
BOT CHORD	1-4=-11/43, 3-4=-11/43
WEBS	2-4=-179/180

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=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 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.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1 and 34 lb uplift at joint 3.

LOAD CASE(S) Standard



June 3,2025

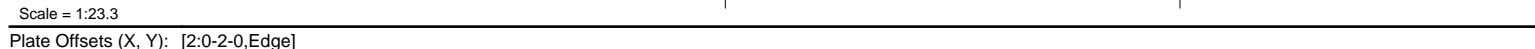
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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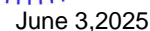
818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 03 07:30:25 Page: 1
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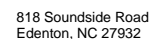
LUMBER		8) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
TOP CHORD	2x4 SP No.1	
BOT CHORD	2x4 SP No.1	
BRACING		9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.
TOP CHORD	Structural wood sheathing directly applied or 4-7-15 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		LOAD CASE(S) Standard
(size)	1=4-7-3, 3=4-7-3	
Max Horiz	1=-30 (LC 6)	
Max Uplift	1=-12 (LC 10), 3=-12 (LC 11)	
Max Grav	1=148 (LC 1), 3=148 (LC 1)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-125/154, 2-3=-125/154	
BOT CHORD	1-3=-62/83	

- ## 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=5.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner(3E) zone; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 4'-0" oc.
 - 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf
on the bottom chord in all areas where a rectangle
3'-6"-0" tall by 2'-0"-0" wide will fit between the bottom
chord and any other members.



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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING

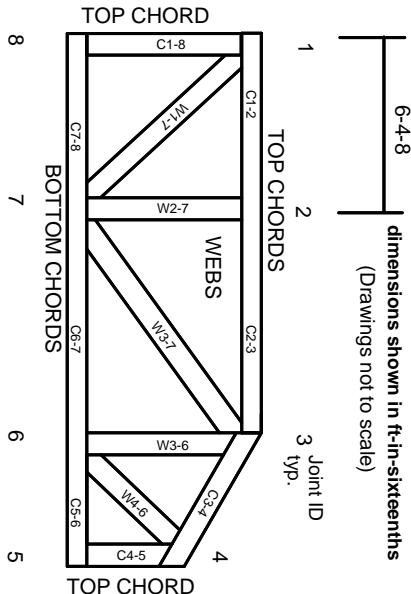


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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