

RE: J0325-1583
Cav&Cates\106 Ducks Landing

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0325-1583
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 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I67389419	A1	8/7/2024	21	I67389439	V4	8/7/2024
2	I67389420	A2	8/7/2024	22	I67389440	VE1	8/7/2024
3	I67389421	B1	8/7/2024	23	I67389441	VE2	8/7/2024
4	I67389422	B2	8/7/2024	24	I67389442	VE3	8/7/2024
5	I67389423	B3	8/7/2024	25	I67389443	VE4	8/7/2024
6	I67389424	B4	8/7/2024	26	I67389444	VG1	8/7/2024
7	I67389425	C1	8/7/2024	27	I67389445	VG2	8/7/2024
8	I67389426	C2	8/7/2024	28	I67389446	VK1	8/7/2024
9	I67389427	C3	8/7/2024	29	I67389447	VK2	8/7/2024
10	I67389428	C4	8/7/2024				
11	I67389429	D1	8/7/2024				
12	I67389430	E1	8/7/2024				
13	I67389431	E2	8/7/2024				
14	I67389432	G1	8/7/2024				
15	I67389433	G2	8/7/2024				
16	I67389434	K1	8/7/2024				
17	I67389435	K1GE	8/7/2024				
18	I67389436	V1	8/7/2024				
19	I67389437	V2	8/7/2024				
20	I67389438	V3	8/7/2024				

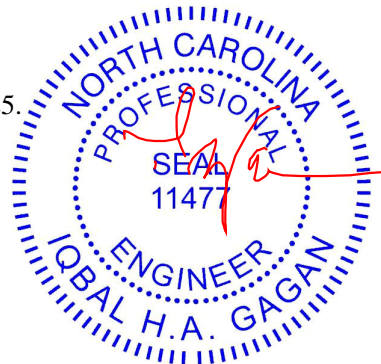
The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gagan, Iqbal

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.



August 07, 2024

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	A1	GABLE	1	1	167389419

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:39 2024 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8 14-3-15 27-0-0 34-1-6 54-0-0
0-10-8 14-3-15 12-8-1 7-1-6 19-10-10

Scale = 1:97.8

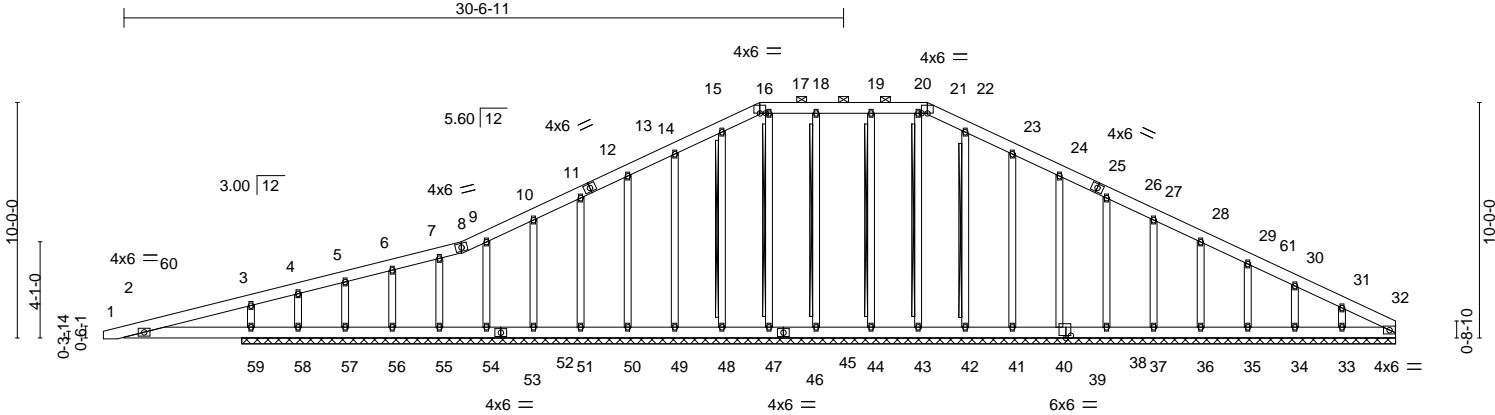


Plate Offsets (X,Y)--		[16:0-3-0,0-0-2], [21:0-3-0,0-0-2], [39:0-2-8,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34
TCDL 10.0	Lumber DOL	1.15	BC 0.31
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.00 1-2 n/r 120
		Vert(CT)	-0.01 1-2 n/r 120
		Horz(CT)	0.02 32 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 449 lb	FT = 20%

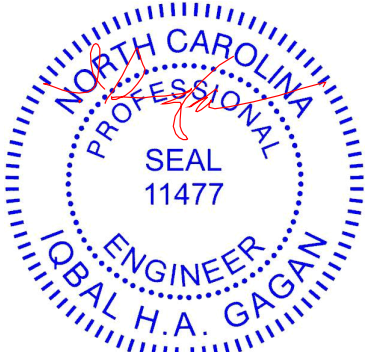
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 16-21.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 18-45, 17-47, 15-48, 19-44, 20-43, 22-42

REACTIONS. All bearings 49-0-0.
(lb) - Max Horz 59=220(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 45, 47, 48, 49, 50, 51, 52, 54, 55, 56, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34 except 32=199(LC 21), 57=112(LC 6), 58=417(LC 1), 59=352(LC 6), 33=129(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 32, 45, 48, 49, 50, 51, 52, 54, 55, 56, 58, 44, 42, 41, 40, 38, 37, 36, 35, 34, 33 except 47=307(LC 21), 57=290(LC 1), 59=912(LC 1), 43=307(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-503/485, 3-4=-350/383, 4-5=-389/453, 5-6=-347/440, 6-7=-318/440, 7-8=-296/437, 8-9=-293/464, 9-10=-254/485, 10-11=-193/483, 11-13=-135/482, 13-14=-58/483, 14-15=0/488, 15-16=0/455, 16-17=0/415, 17-18=0/415, 18-19=0/415, 19-20=0/415, 20-21=0/415, 21-22=0/454, 22-23=0/486, 23-24=-58/481, 24-26=-135/481, 26-27=-193/481, 27-28=-252/481, 28-29=-311/481, 29-30=-375/481, 30-31=-463/480, 31-32=-611/513
BOT CHORD 2-59=-414/539, 58-59=-414/579, 57-58=-414/579, 56-57=-414/579, 55-56=-414/579, 54-55=-414/579, 52-54=-414/579, 51-52=-414/579, 50-51=-414/579, 49-50=-414/579, 48-49=-414/579, 47-48=-414/579, 45-47=-414/579, 44-45=-414/579, 43-44=-414/579, 42-43=-414/579, 41-42=-414/579, 40-41=-414/579, 38-40=-414/579, 37-38=-414/579, 36-37=-414/579, 35-36=-414/579, 34-35=-414/579, 33-34=-414/579, 32-33=-414/579
WEBS 17-47=-269/69, 3-59=-536/556, 20-43=-268/69, 31-33=-182/289

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-15 to 4-9-14, Exterior(2) 4-9-14 to 21-4-11, Corner(3) 21-4-11 to 39-8-11, Exterior(2) 39-8-11 to 48-7-3, Corner(3) 48-7-3 to 54-0-0 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.
Continued on page 2



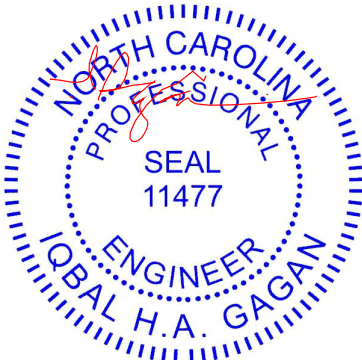
August 7, 2024

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

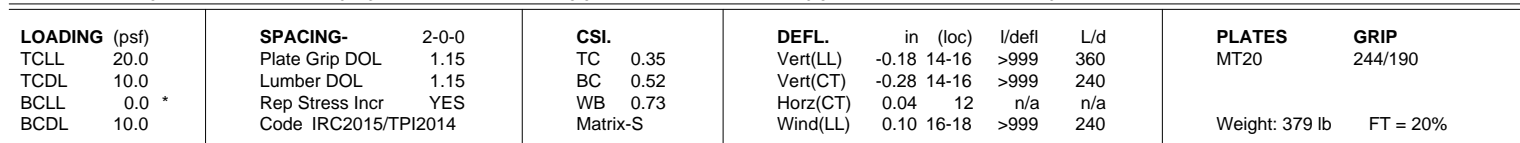
Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	A1	GABLE	1	1	I67389419
					Job Reference (optional)

- NOTES-**
- 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 45, 47, 48, 49, 50, 51, 52, 54, 55, 56, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34 except (jt=lb) 32=199, 57=112, 58=417, 59=352, 33=129.
 - 10) Non Standard bearing condition. Review required.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



August 7,2024

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:39 2024 Page 1
 ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?Psb70Hq3NSgPqnL8w3uITxbGKWrcD0i7J4zJC?f
 -0-10-8 8-0-3 14-3-15 23-0-0 30-6-11 38-2-6 45-10-1 54-0-0
 0-10-8 8-0-3 6-3-11 8-8-1 7-6-11 7-7-11 7-7-11 8-1-15
 Scale = 1:89



LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-16, 7-16, 7-14, 8-12

REACTIONS.

(size) 12=0-3-8, 11=0-3-8, 19=0-3-8
 Max Horz 19=152(LC 10)
 Max Uplift 12=-256(LC 11), 11=-109(LC 23), 19=-323(LC 6)
 Max Grav 12=2671(LC 2), 11=240(LC 22), 19=1812(LC 1)

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

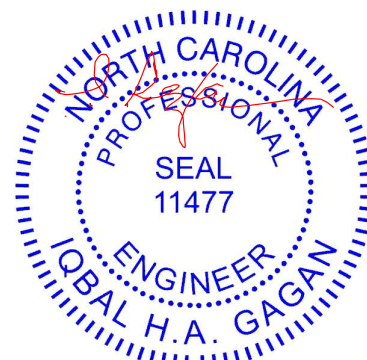
TOP CHORD 2-3=-1008/933, 3-4=-2552/525, 4-6=-1913/536, 6-7=-1924/733, 7-8=-1024/434,
8-10=-142/894, 10-11=-99/607

BOT CHORD 2-19=-843/1026, 18-19=-384/1575, 16-18=-385/2440, 14-16=0/925, 12-14=0/259,
11-12=-499/139

WEBS 3-19=-2865/1320, 3-18=-284/904, 4-16=-961/218, 6-16=-563/376, 7-16=-422/1361,
7-14=-530/175, 8-14=-100/1057, 8-12=-2195/617, 10-12=-533/340

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 26-1-14, Exterior(2) 26-1-14 to 34-11-8, Interior(1) 34-11-8 to 49-5-7, Exterior(2) 49-5-7 to 53-10-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
12=256. 11=109. 19=323.



August 7, 2024



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	B1	GABLE	1	1	167389421
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:40 2024 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 16-1-15 19-6-0 22-10-1 39-0-0 39-10-8
0-10-8 16-1-15 3-4-1 3-4-1 16-1-15 0-10-8

Scale = 1:69.8

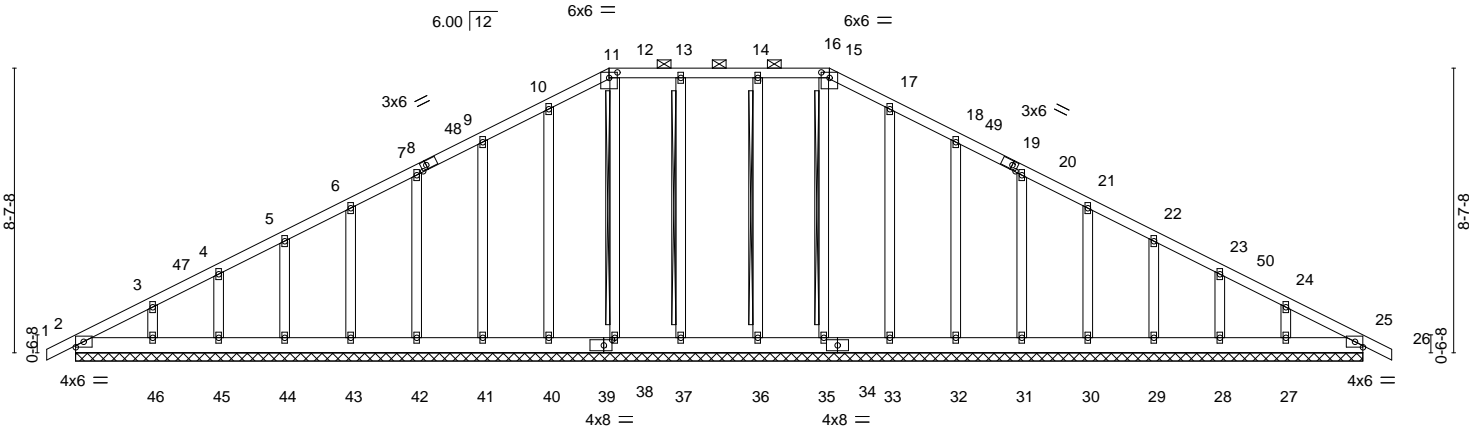


Plate Offsets (X,Y)--		[8:0-2-0,0-1-8], [11:0-3-0,0-2-0], [16:0-3-0,0-2-0], [19:0-2-0,0-1-8], [39:0-3-0,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.00 25 n/r 120
		Vert(CT)	-0.00 25 n/r 120
		Horz(CT)	0.01 25 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 288 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 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, except 2-0-0 oc purlins (6-0-0 max.): 11-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 13-37, 12-38, 14-36, 15-35
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 39-0-0.
(lb) - Max Horz 2=-192(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 25, 37, 40, 41, 42, 43, 44, 45, 36, 33, 32, 31, 30, 29, 28, 2 except 46=-116(LC 10), 27=-112(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 25, 37, 38, 40, 41, 42, 43, 44, 45, 46, 36, 35, 33, 32, 31, 30, 29, 28, 27, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-260/81, 9-10=-93/286, 10-11=-114/384, 16-17=-114/384, 17-18=-93/286, 11-12=-103/380, 12-13=-103/380, 13-14=-103/380, 14-15=-103/380, 15-16=-103/380
BOT CHORD 2-46=-58/262, 45-46=-58/262, 44-45=-58/262, 43-44=-58/262, 42-43=-58/262, 41-42=-58/262, 40-41=-58/262, 38-40=-58/262, 37-38=-58/262, 36-37=-58/262, 35-36=-58/262, 33-35=-58/262, 32-33=-58/262, 31-32=-58/262, 30-31=-58/262, 29-30=-58/262, 28-29=-58/262, 27-28=-58/262, 25-27=-58/262

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 11-9-2, Corner(3) 11-9-2 to 27-2-14, Exterior(2) 27-2-14 to 35-5-11, Corner(3) 35-5-11 to 39-10-8 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 37, 40, 41, 42, 43, 44, 45, 36, 33, 32, 31, 30, 29, 28, 2 except (jt=lb) 46=116, 27=112.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



August 7, 2024

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

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	B2	COMMON TRUSS	8	1	167389422
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:41 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

-0-10-8 9-11-14 19-6-0 29-0-2 39-0-0 39-10-8
0-10-8 9-11-14 9-6-2 9-6-2 9-11-14 0-10-8

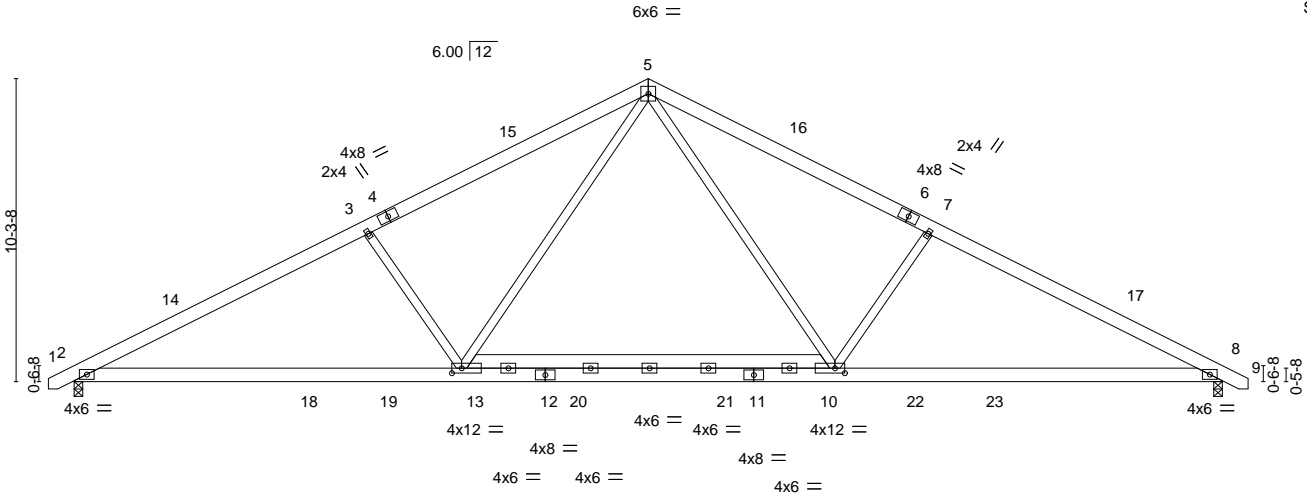


Plate Offsets (X,Y)--	[10:0-4-0,0-2-0], [13:0-4-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL)	-0.19 10-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT)	-0.36 2-13	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.36	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.09 2-13	>999	240	Weight: 277 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-4 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 Horz 2=147(LC 8)
Max Uplift 2=110(LC 10), 8=110(LC 11)
Max Grav 2=1872(LC 2), 8=1873(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3484/680, 3-5=-3199/656, 5-7=-3201/656, 7-8=-3486/680
BOT CHORD 2-13=-438/3102, 10-13=-121/2040, 8-10=-438/3047
WEBS 5-10=-123/1411, 7-10=-590/413, 5-13=-123/1409, 3-13=-590/413

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-1-3, Exterior(2) 15-1-3 to 23-10-13, Interior(1) 23-10-13 to 35-3-13, Exterior(2) 35-3-13 to 39-8-10 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, 19-6-0 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=110, 8=110.



August 7, 2024

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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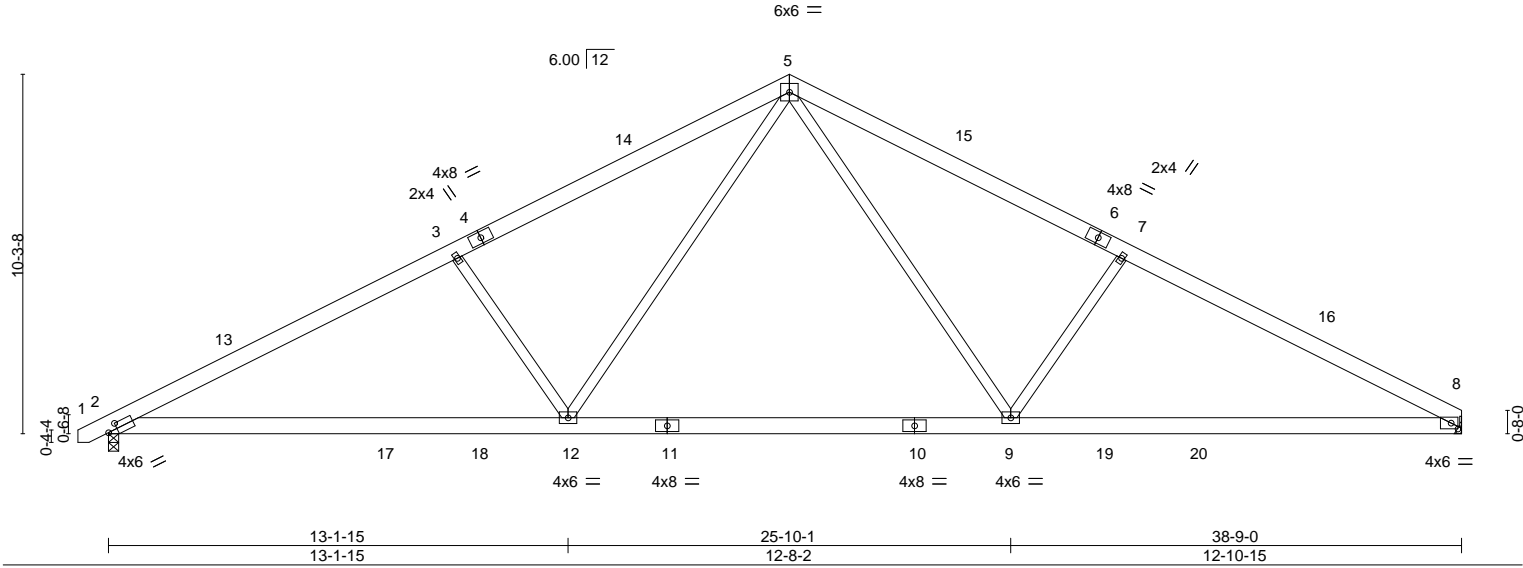
Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	B3	COMMON TRUSS	6	1	I67389423

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:41 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-10-8 9-11-14 19-6-0 29-0-2 38-9-0
0-10-8 9-11-14 9-6-2 9-6-2 9-8-14

Scale = 1:66.0



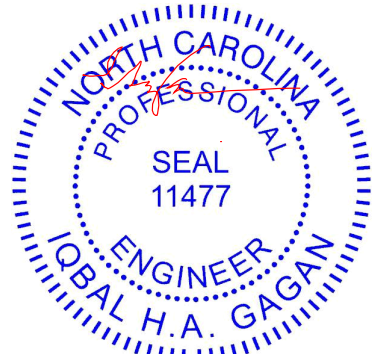
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.47 9-12 >978 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.60 9-12 >771 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.08 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 2-12 >999 240	Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=148(LC 9)
Max Uplift 8=193(LC 11), 2=210(LC 10)
Max Grav 8=1724(LC 2), 2=1763(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3147/891, 3-5=-2893/896, 5-7=-2874/900, 7-8=-3121/894
BOT CHORD 2-12=-644/2791, 9-12=-284/1822, 8-9=-650/2706
WEBS 5-9=-256/1239, 7-9=-571/412, 5-12=-251/1270, 3-12=-594/405

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-1-3, Exterior(2) 15-1-3 to 23-10-13, Interior(1) 23-10-13 to 34-2-15, Exterior(2) 34-2-15 to 38-7-12 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=193, 2=210.



August 7, 2024

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	B4	GABLE	1	1	167389424
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 16-1-15 19-6-0 22-10-1 38-9-0

0-10-8 16-1-15 3-4-1 3-4-1 15-10-15

Scale = 1:69.3

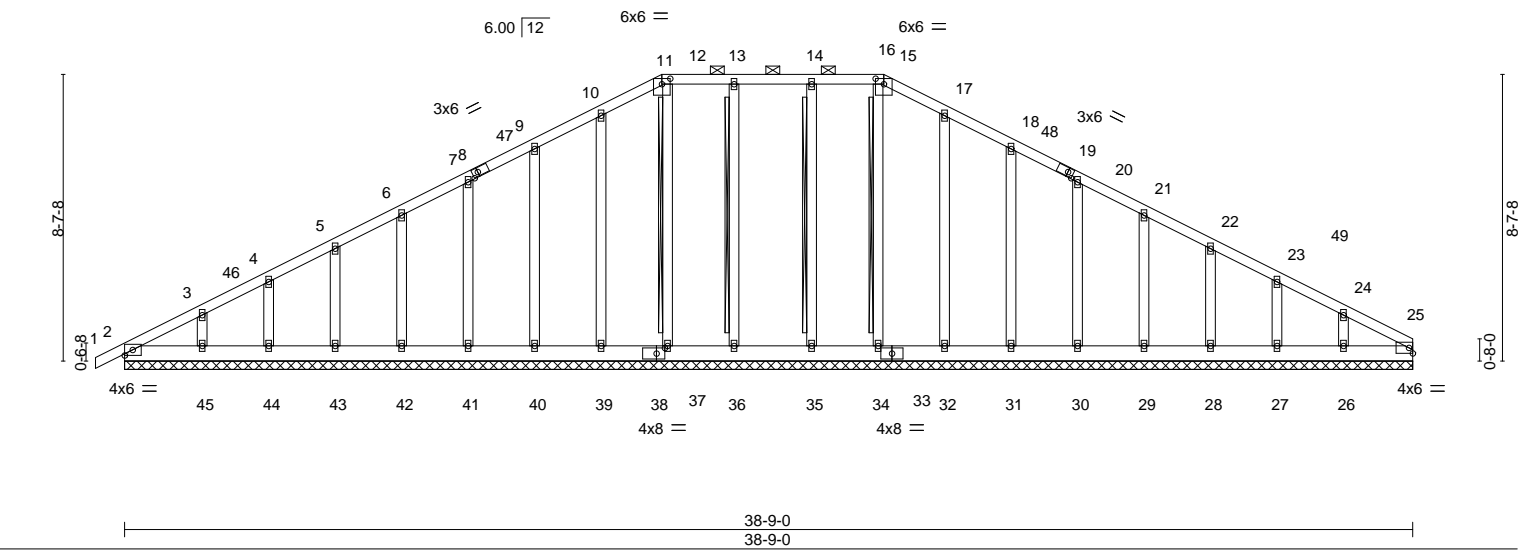


Plate Offsets (X,Y)--		[8:0-2-0,0-1-8], [11:0-3-0,0-2-0], [16:0-3-0,0-2-0], [19:0-2-0,0-1-8], [38:0-3-0,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.00 1 n/r 120
		Vert(CT)	0.00 1 n/r 120
		Horz(CT)	0.01 25 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-16.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 13-36, 12-37, 14-35, 15-34
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. All bearings 38-9-0.

(lb) - Max Horz 2=199(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 36, 39, 40, 41, 42, 43, 44, 35, 32, 31, 30, 29, 28, 27, 2 except 45=116(LC 10), 26=128(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 25, 36, 37, 39, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27, 26, 2

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

TOP CHORD 2-3=-262/78, 9-10=-94/284, 10-11=-115/382, 16-17=-115/382, 17-18=-94/284, 11-12=-104/378, 12-13=-104/378, 13-14=-104/378, 14-15=-104/378, 15-16=-104/378

BOT CHORD 2-45=-61/253, 44-45=-61/253, 43-44=-61/253, 42-43=-61/253, 41-42=-61/253, 40-41=-61/253, 39-40=-61/253, 37-39=-61/253, 36-37=-61/253, 35-36=-61/253, 34-35=-61/253, 32-34=-61/253, 31-32=-61/253, 30-31=-61/253, 29-30=-61/253, 28-29=-61/253, 27-28=-61/253, 26-27=-61/253, 25-26=-61/253

WEBS 24-26=-131/260

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 11-9-2, Corner(3) 11-9-2 to 27-2-14, Exterior(2) 27-2-14 to 34-4-3, Corner(3) 34-4-3 to 38-9-0 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) Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 2-0-0 oc.

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

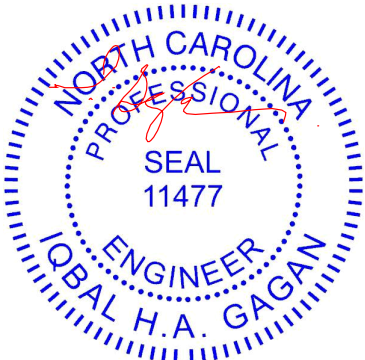
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 39, 40, 41, 42, 43, 44, 35, 32, 31, 30, 29, 28, 27, 2 except (it=lb) 45=116, 26=128.

On this page a representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing	I67389424
J0325-1583	B4	GABLE	1	1	Job Reference (optional)	

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



August 7, 2024

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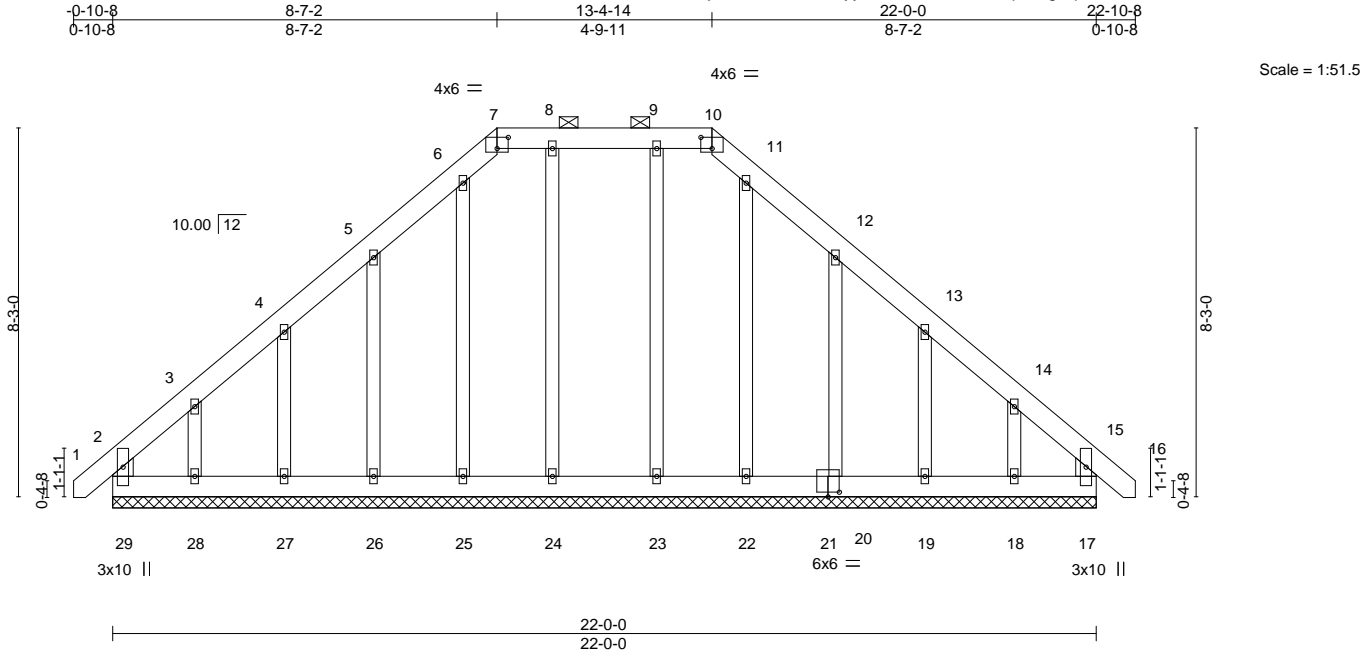
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	C1	GABLE	1	1	I67389425
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:43 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 195 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

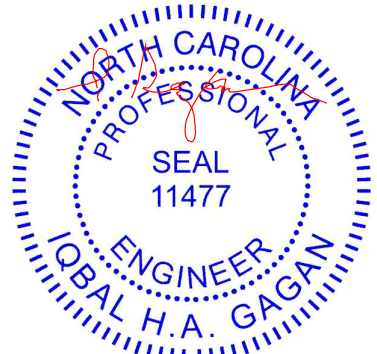
All bearings 22-0-0.
(lb) - Max Horz 29=262(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 17, 24, 25, 23, 22 except 29=-147(LC 6), 26=-153(LC 10), 27=-115(LC 10), 28=-247(LC 10), 20=-154(LC 11), 19=-119(LC 11), 18=-228(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 29, 17, 24, 25, 26, 27, 28, 23, 22, 20, 19, 18

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

TOP CHORD 7-8=-199/251, 8-9=-199/251, 9-10=-199/251

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 3-10-0, Exterior(2) 3-10-0 to 4-2-6, Corner(3) 4-2-6 to 17-9-10, Exterior(2) 17-9-10 to 18-2-0, Corner(3) 18-2-0 to 22-8-14 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 24, 25, 23, 22 except (jt=lb) 29=147, 26=153, 27=115, 28=247, 20=154, 19=119, 18=228.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2024

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8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:43 2024 Page 1
ID:ZBV44idxGe9Lzs09kQJltyvS8Pv-RfC?PsB70Hg3NSaPnL8w3uITxbGKWrCDoi7J4zJC?f

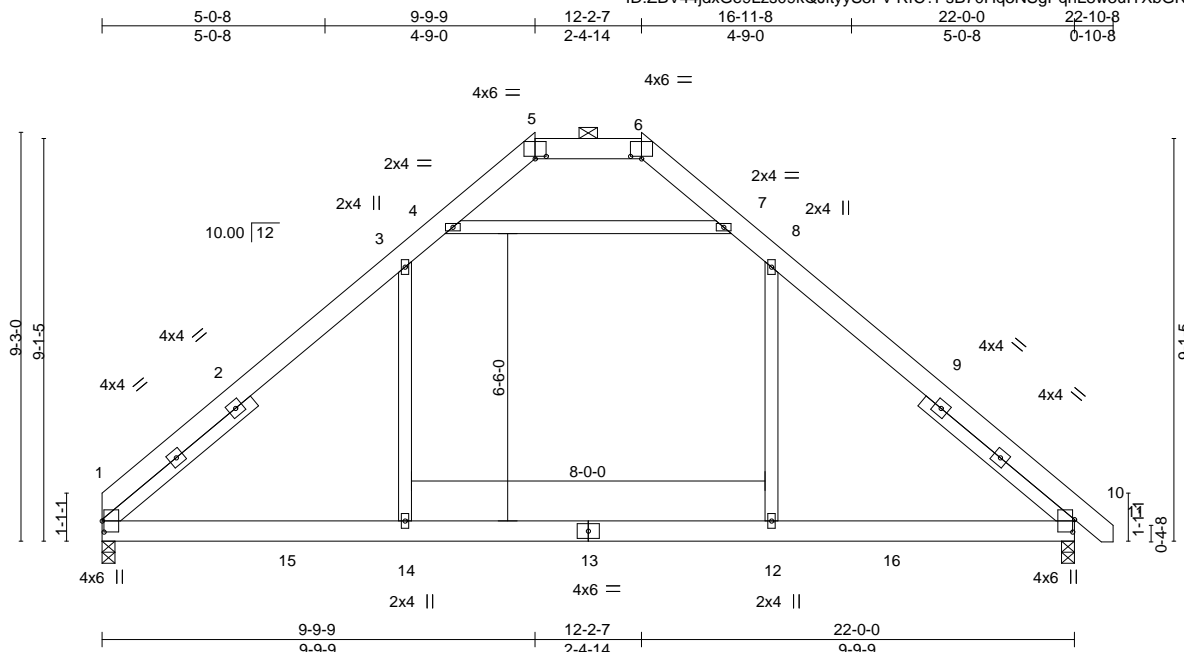


Plate Offsets (X,Y)--		[1:0-3-0,0-0-8], [5:0-3-0,0-0-11], [6:0-3-0,0-0-11], [10:0-3-6,0-0-8]					
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d	
TCLL 20.0		Plate Grip DOL 1.15		TC 0.25		Vert(LL) -0.11 1-14 >999 360	PLATES MT20
TCDL 10.0		Lumber DOL 1.15		BC 0.41		Vert(CT) -0.13 12-14 >999 240	GRIP 244/190
BCLL 0.0 *		Rep Stress Incr YES		WB 0.72		Horz(CT) 0.02 10 n/a n/a	
BCDL 10.0		Code IRC2015/TPI2014		Matrix-S		Wind(LL) 0.13 1-14 >999 240	Weight: 161 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 4-4-10, Right 2x4 SP No.2 4-4-10

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

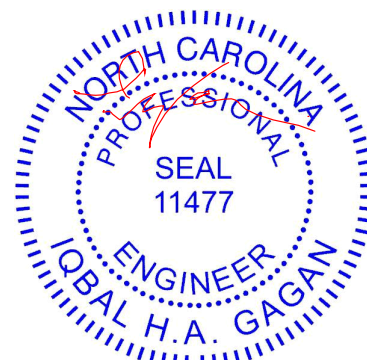
REACTIONS. (size) 1=0-3-8, 10=0-3-8
 Max Horz 1=-232(LC 8)
 Max Uplift 1=-89(LC 10), 10=-102(LC 11)
 Max Grav 1=1100(LC 17), 10=1143(LC 18)

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

TOP CHORD 1-3=-1438/365, 3-4=-854/415, 7-8=-855/414, 8-10=-1439/369
BOT CHORD 1-14=-86/996, 12-14=-86/996, 10-12=-86/996
WEBS 3-14=-9/583, 8-12=-9/583, 4-7=-1010/532

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDF=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=102.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2024

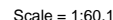
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8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:43 2024 Page 1
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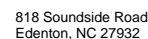
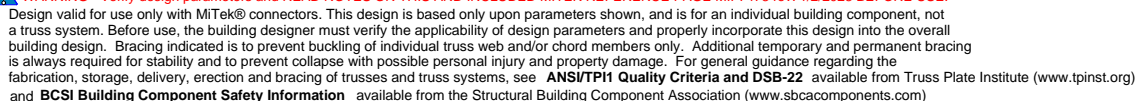
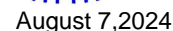


BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-260(LC 6)
 Max Uplift 1=-92(LC 10), 9=-92(LC 11)
 Max Grav 1=1114(LC 17), 9=1114(LC 18)

TOP CHORD 1-3=-1485/334, 3-4=-899/382, 6-7=-899/382, 7-9=-1484/334
BOT CHORD 1-12=-70/1028, 10-12=-70/1028, 9-10=-70/1028
WEBS 3-12=-13/584, 7-10=-13/584, 4-6=-975/483

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCFL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-7-3, Exterior(2) 6-7-3 to 15-1-12, Interior(1) 15-1-12 to 17-7-3, Exterior(2) 17-7-3 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.



Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	C4	COMMON TRUSS	1	2	167389428

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:44 2024 Page 1

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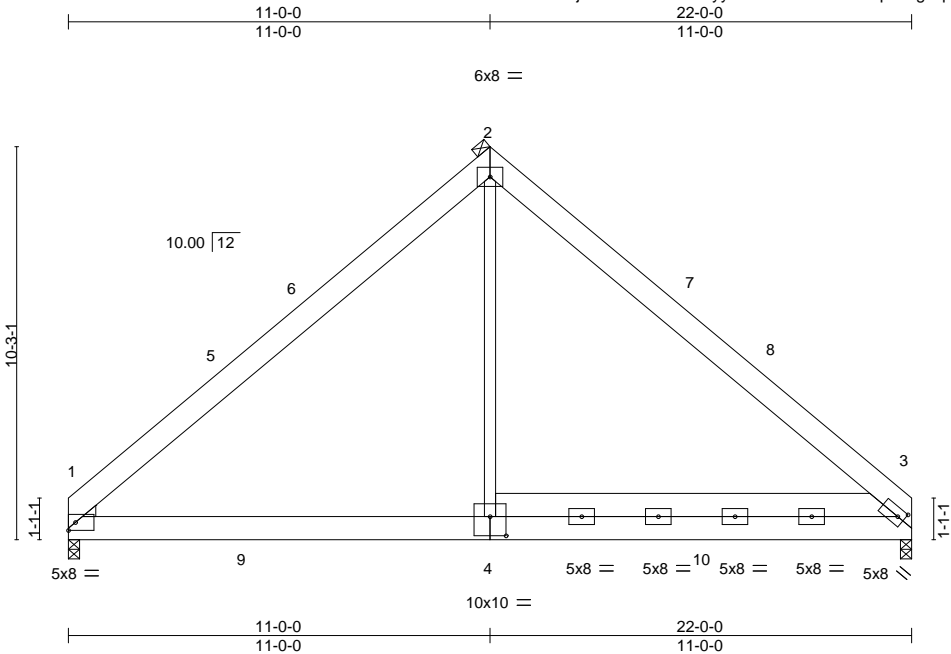


Plate Offsets (X,Y)-- [3:0-2-2,0-2-8], [4:0-5-0,0-6-0]									
LOADING (psf)		SPACING- 3-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.08 3-4 >999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.17 3-4 >999	240	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01 3 n/a	n/a	
BCDL	10.0	Code IRC2015/TP12014		Matrix-S		Wind(LL)	0.11 3-4 >999	240	Weight: 410 lb FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x8 SP No.1 *Except*
2-4: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
Max Horz 1=383(LC 9)
Max Uplift 1=-294(LC 10), 3=-613(LC 11)
Max Grav 1=2273(LC 2), 3=3385(LC 2)

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

TOP CHORD 1-2=-3016/949, 2-3=-2951/947
BOT CHORD 1-4=-340/2101, 3-4=-353/2132
WEBS 2-4=-556/2760

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 6-7-3, Exterior(2) 6-7-3 to 15-4-13, Interior(1) 15-4-13 to 17-5-7, Exterior(2) 17-5-7 to 21-10-4 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=294, 3=613.
- 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) 1552 lb down and 514 lb up at 16-5-8, and 987 lb down and 591 lb up at 16-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



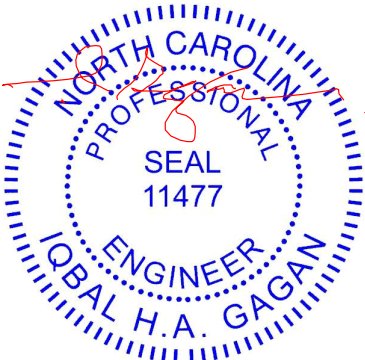
August 7, 2024

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing	I67389428
J0325-1583	C4	COMMON TRUSS	1	2	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-90, 1-3=-30
Concentrated Loads (lb)
Vert: 10=-1510(B)



August 7, 2024

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	D1	MONOPITCH TRUSS	3	1	I67389429
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:44 2024 Page 1

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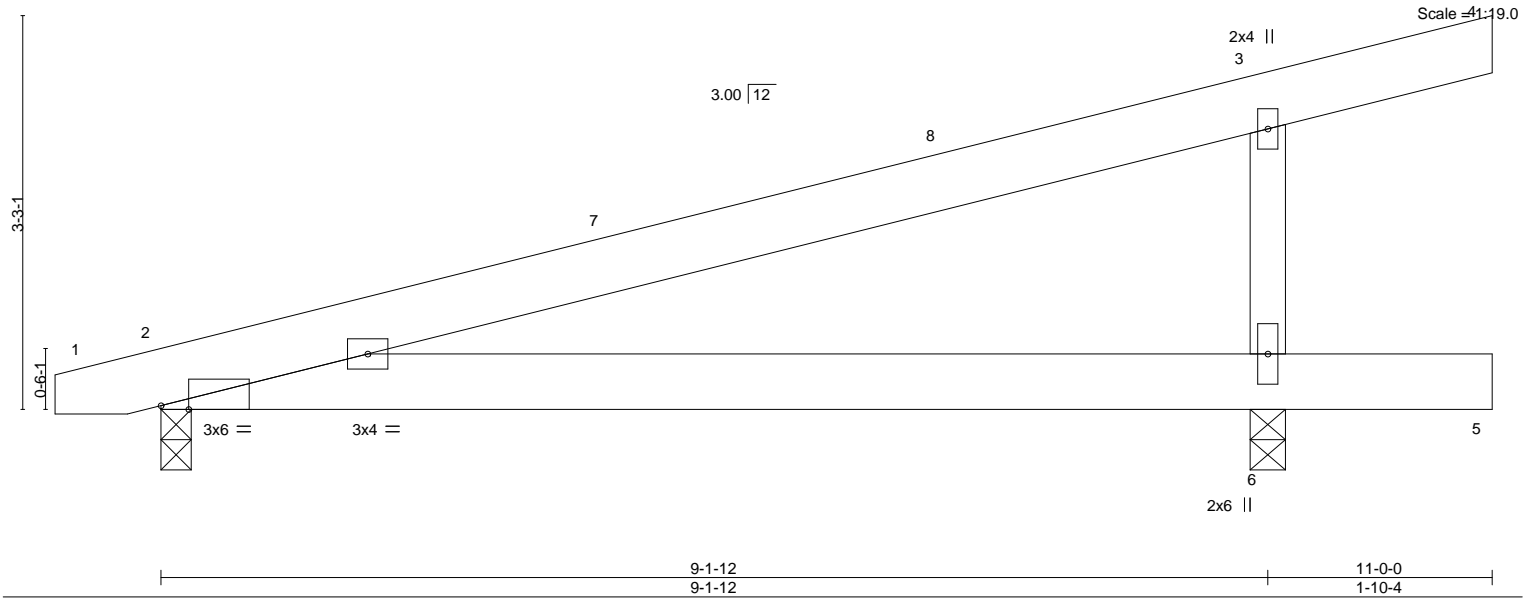


Plate Offsets (X,Y)--		[2:0-2-12,Edge]				
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC 0.43	Vert(LL) 0.20 2-6 >534 240	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.37	Vert(CT) -0.14 2-6 >755 240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 n/a n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S		Weight: 57 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-0, 6=0-3-8
	Max Horz 2=103(LC 6)
	Max Uplift 2=-191(LC 6), 6=-204(LC 6)
	Max Grav 2=389(LC 1), 6=523(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	3-6=-377/404

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 6-7-3, Exterior(2) 6-7-3 to 11-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 6=204.



Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	E1	GABLE	1	1	167389430
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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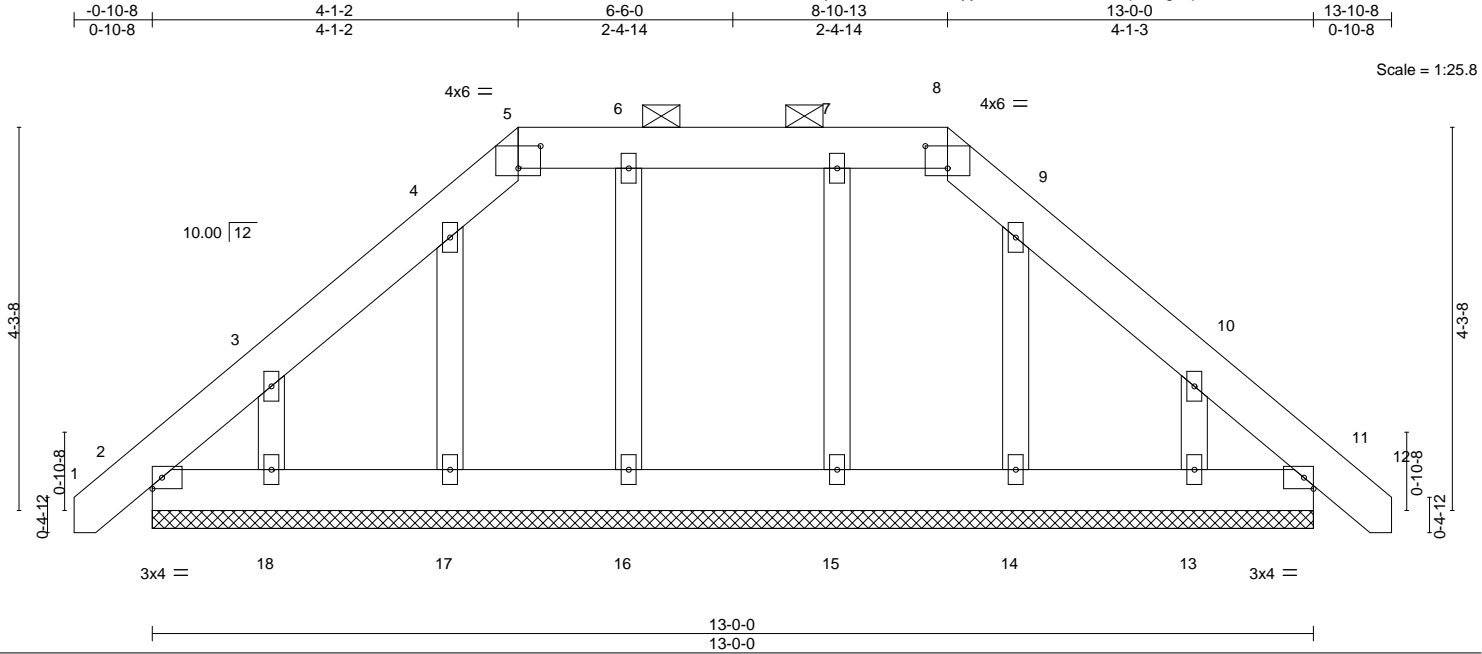


Plate Offsets (X,Y)--		[5:0-3-0,0-3-0], [8:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.00	11	n/r
Vert(CT)	-0.00	11	n/r
Horz(CT)	0.00	11	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 94 lb	FT = 20%		

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

REACTIONS.	All bearings 13-0-0.
(lb) - Max Horz	2=137(LC 8)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 11, 16, 17, 15, 14 except 18=156(LC 10), 13=154(LC 11)
Max Grav	All reactions 250 lb or less at joint(s) 2, 11, 16, 17, 18, 15, 14, 13

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
 - 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 40.0psf 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.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 16, 17, 15, 14 except (jt=lb) 18=156, 13=154.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2024

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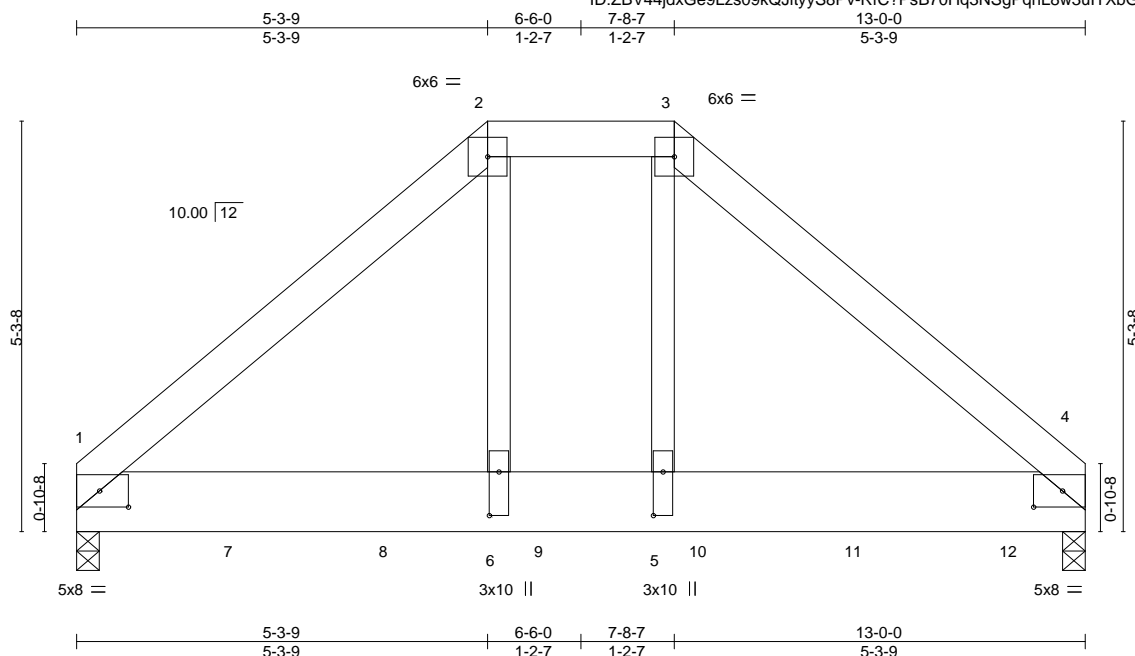


Plate Offsets (X,Y)-- [1:0-4-8,0-2-8], [4:0-4-8,0-2-8], [5:0-6-12,0-1-8], [6:0-6-12,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.03 4-5 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06 4-5 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01 4 n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02 4-5 >999 240	Weight: 206 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD	2x10 SP 2400F 2.0E		
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=0-3-8
 Max Horz 1=-124(LC 23)
 Max Uplift 1=-606(LC 8), 4=-713(LC 9)
 Max Grav 1=5104(LC 2), 4=6011(LC 2)

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

TOP CHORD	1-2=-5515/685, 3-4=-5513/684, 2-3=-4171/560
BOT CHORD	1-6=-475/4064, 5-6=-484/4171, 4-5=-471/4063
WEBS	2-6=-438/3479, 3-5=-438/3481

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=606, 4=713.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1704 lb down and 213 lb up at 2-0-12, 1704 lb down and 213 lb up at 4-0-12, 1704 lb down and 213 lb up at 6-0-12, 1704 lb down and 213 lb up at 8-0-12, and 1704 lb down and 213 lb up at 10-0-12, and 1706 lb down and 211 lb up at 12-0-12 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



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Continued on page 2



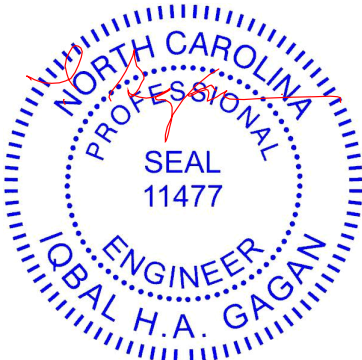
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	E2	KINGPOST	1	2	I67389431
					Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-4=-20, 1-2=-60, 3-4=-60, 2-3=-60
Concentrated Loads (lb)
Vert: 7=-1519(F) 8=-1519(F) 9=-1519(F) 10=-1519(F) 11=-1519(F) 12=-1522(F)

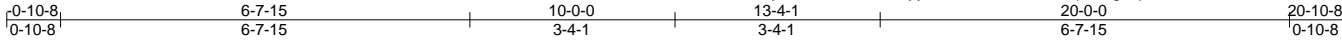


August 7,2024

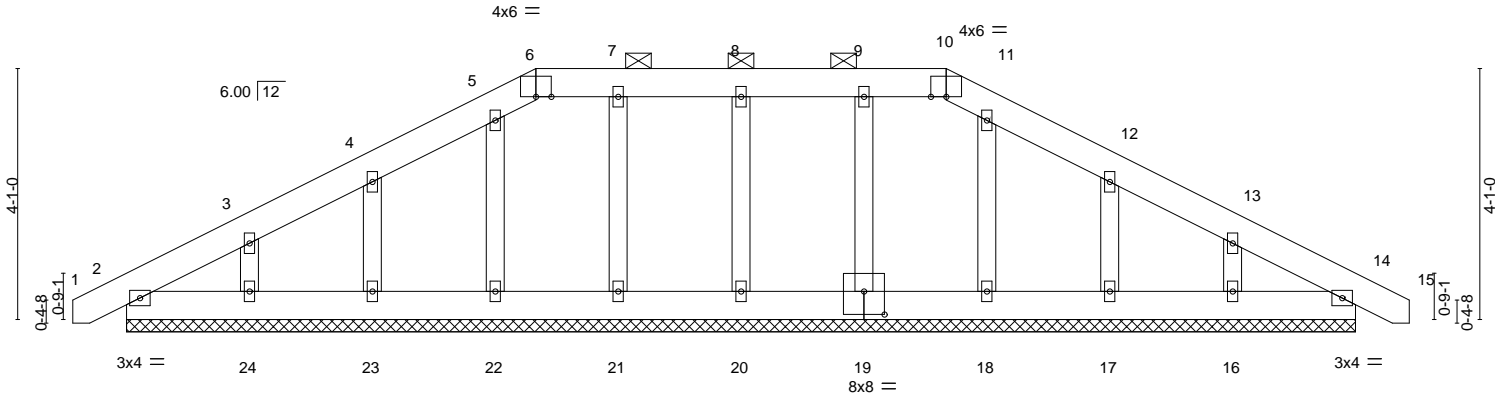
Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	G1	GABLE	1	1	167389432
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:46 2024 Page 1
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Scale = 1:37.5



										20-0-0																																							
Plate Offsets (X,Y)--										[19:0-4-0,0-4-8]										20-0-0																													
LOADING (psf)										SPACING- 2-0-0										CSI.										DEFL. in (loc) l/defl L/d										PLATES GRIP									
TCLL 20.0										Plate Grip DOL 1.15										TC 0.03										Vert(LL) 0.00 14 n/r 120										MT20 244/190									
TCDL 10.0										Lumber DOL 1.15										BC 0.02										Vert(CT) 0.00 14 n/r 120																			
BCLL 0.0 *										Rep Stress Incr YES										WB 0.04										Horz(CT) 0.00 14 n/a n/a																			
BCDL 10.0										Code IRC2015/TPI2014										Matrix-S																				Weight: 133 lb FT = 20%									

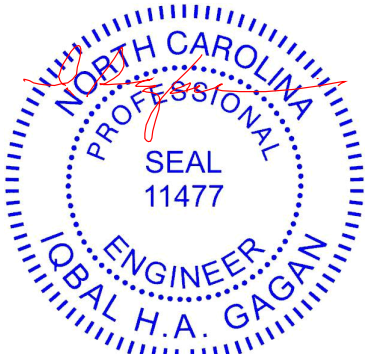
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=84(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 21, 22, 23, 19, 18, 17, 2 except 24=105(LC 10), 16=101(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 14, 20, 21, 22, 23, 24, 19, 18, 17, 16, 2

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
 - 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 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 21, 22, 23, 19, 18, 17, 2 except (jt=lb) 24=105, 16=101.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2024

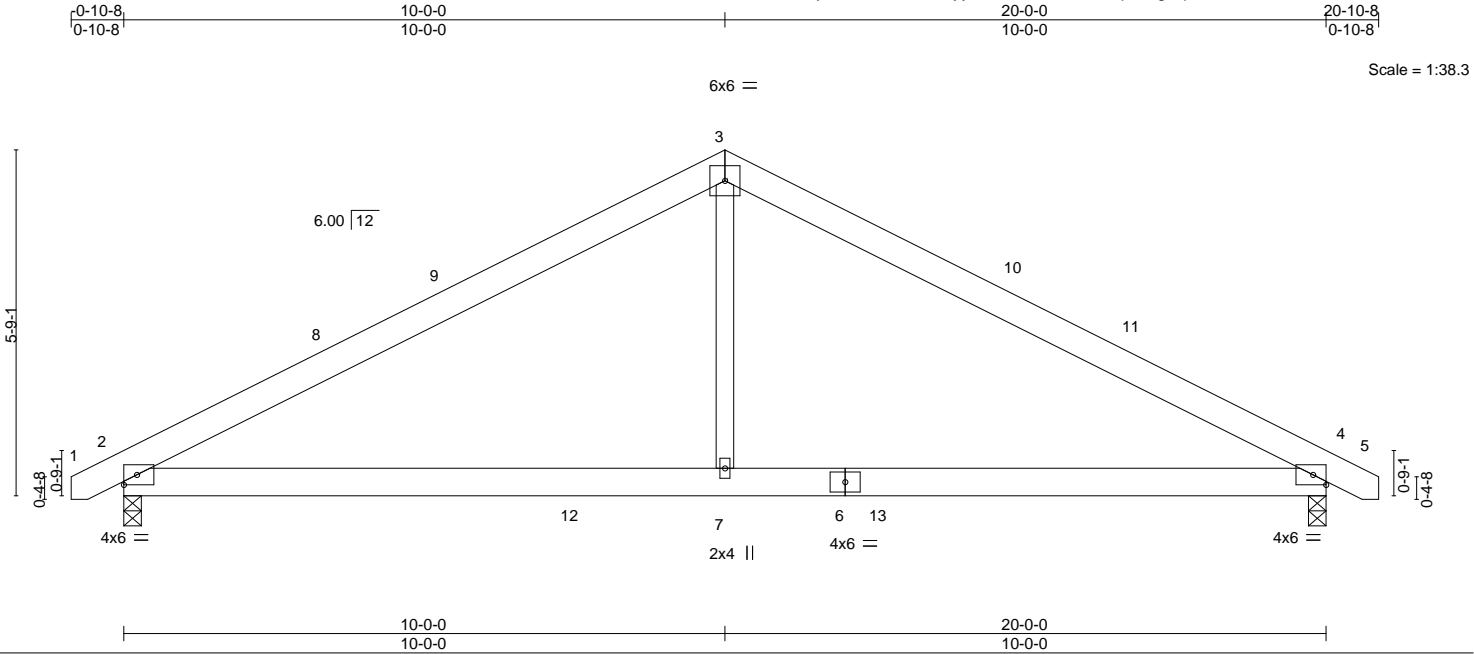
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	G2	COMMON	7	1	I67389433
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:46 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.06	2-7	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.12	2-7	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.02	4	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	2-7	>999	240	
									Weight: 111 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

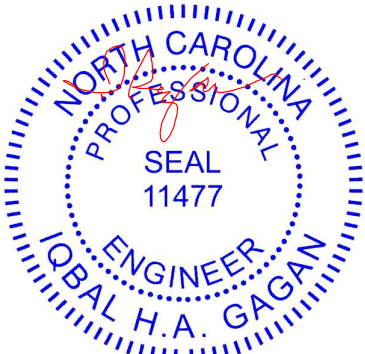
(size) 4=0-3-8, 2=0-3-8
Max Horz 2=78(LC 9)
Max Uplift 4=114(LC 11), 2=114(LC 10)
Max Grav 4=888(LC 2), 2=888(LC 2)

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

TOP CHORD 2-3=-1276/423, 3-4=-1276/423
BOT CHORD 2-7=-199/1035, 4-7=-199/1035
WEBS 3-7=0/643

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 5-7-3, Exterior(2) 5-7-3 to 14-4-13, Interior(1) 14-4-13 to 16-4-1, Exterior(2) 16-4-1 to 20-8-14 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=114, 2=114.



August 7,2024

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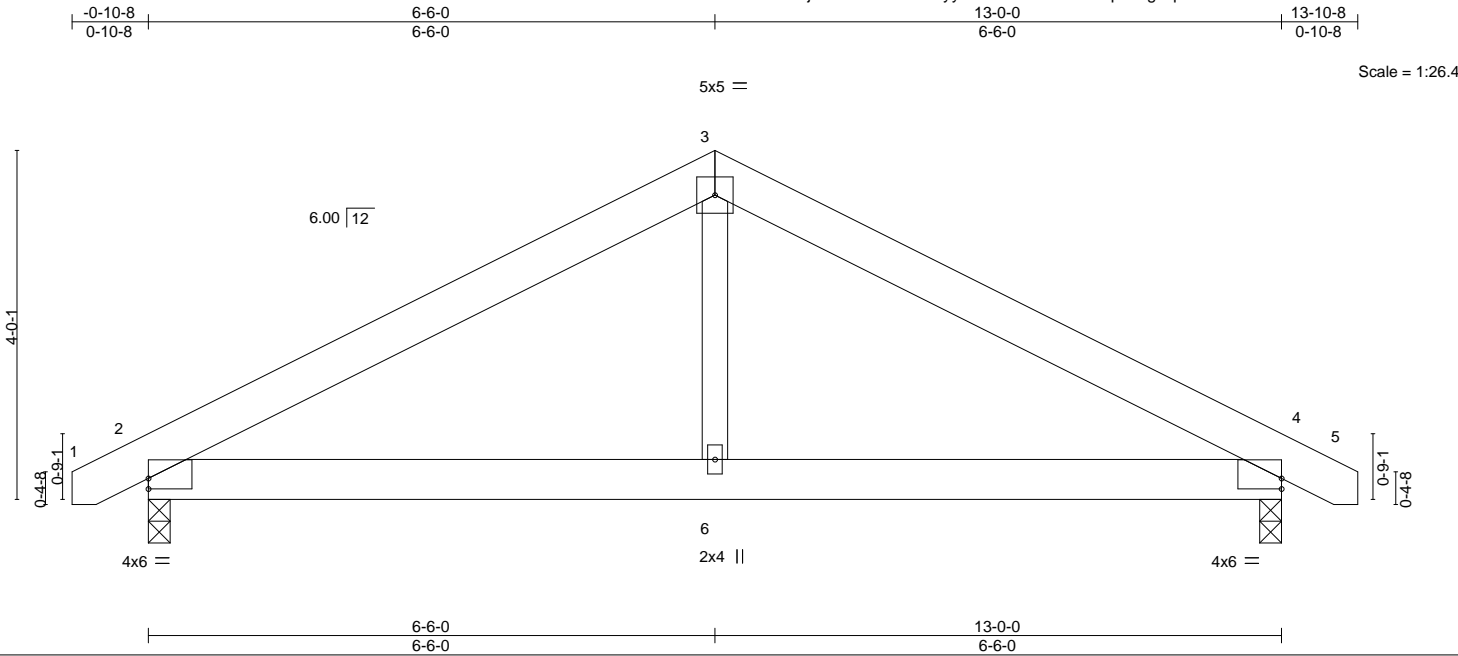
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	K1	COMMON	6	1	I67389434
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

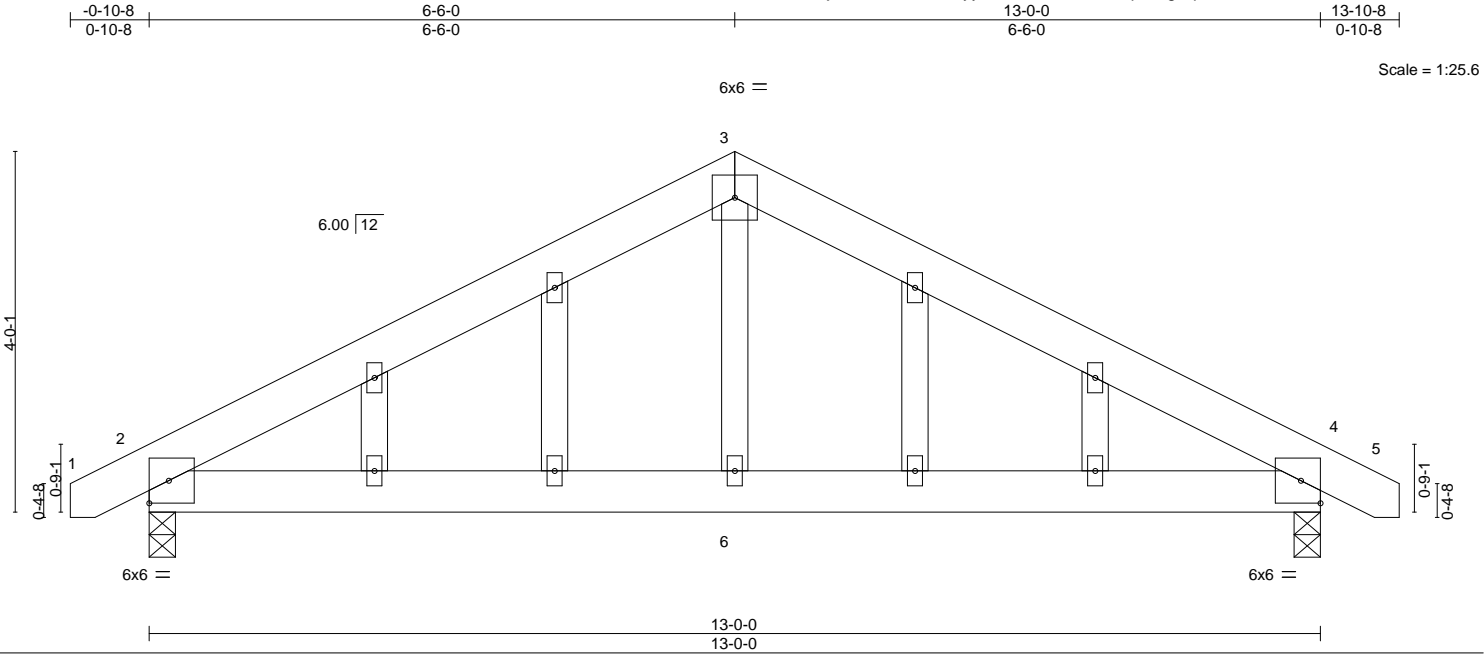
8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:47 2024 Page 1
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	K1GE	GABLE	1	1	I67389435
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:47 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	0.04	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.03	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 84 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 9-0-13 oc bracing.

REACTIONS.

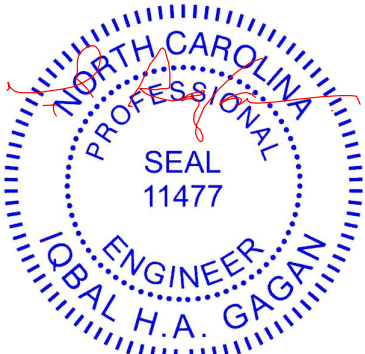
(size) 2=0-3-8, 4=0-3-8
Max Horz 2=82(LC 10)
Max Uplift 2=197(LC 7), 4=197(LC 6)
Max Grav 2=561(LC 1), 4=561(LC 1)

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

TOP CHORD 2-3=-688/1015, 3-4=-688/1015
BOT CHORD 2-6=-696/524, 4-6=-696/524
WEBS 3-6=-398/305

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=197, 4=197.



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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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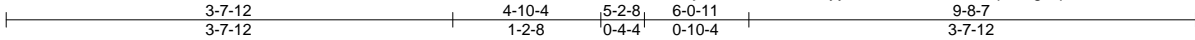
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	V1	GABLE	1	1	I67389436
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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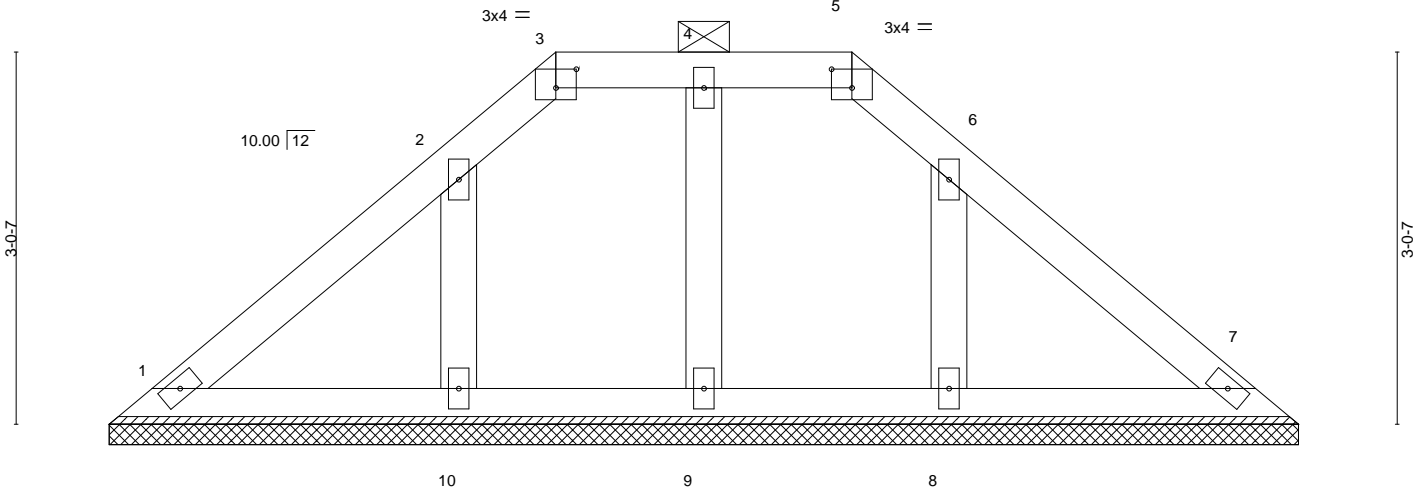


Plate Offsets (X,Y)--	[3:0-2-0,0-1-13], [5:0-2-0,0-1-13]
-----------------------	------------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 40 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, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

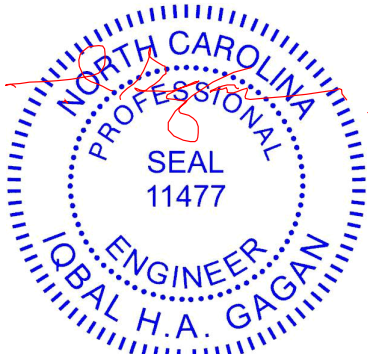
REACTIONS.

All bearings 9-8-7.
(lb) - Max Horz 1=92(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=145(LC 10), 8=141(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10, 8

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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 40.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=145, 8=141.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 7, 2024

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ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	V2	GABLE	1	1	I67389437
Job Reference (optional)					

Comtech, Inc,
Fayetteville, NC - 28314,
8.630 s Jul 12 2024
MiTek Industries, Inc.
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Page 1
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3-7-13

3-7-13

4-0-1

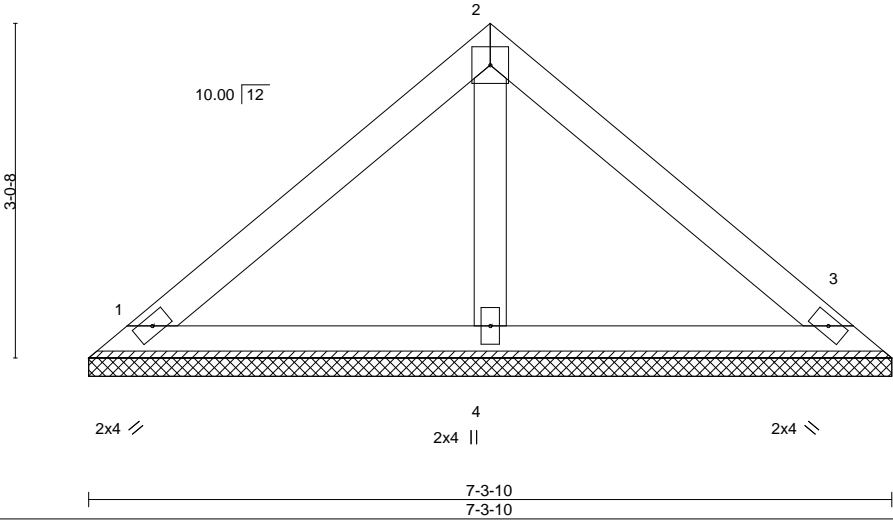
0-4-4

7-3-10

3-3-9

4x4 =

Scale = 1:20.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 27 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-3-10, 3=7-3-10, 4=7-3-10
Max Horz 1=-72(LC 6)
Max Uplift 1=-32(LC 11), 3=-39(LC 11)
Max Grav 1=150(LC 1), 3=150(LC 1), 4=219(LC 1)

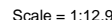
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 7,2024

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:49 2024 Page 1
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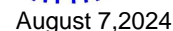


TOP CHORD	Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

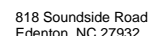
(size) 1=4-10-13, 3=4-10-13, 4=4-10-13
 max Horz 1=46(LC 7)
 max Uplift 1=-20(LC 11), 3=-24(LC 11)
 max Grav 1=95(LC 1), 3=95(LC 1), 4=138(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	V4	VALLEY	1	1	I67389439
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:49 2024 Page 1
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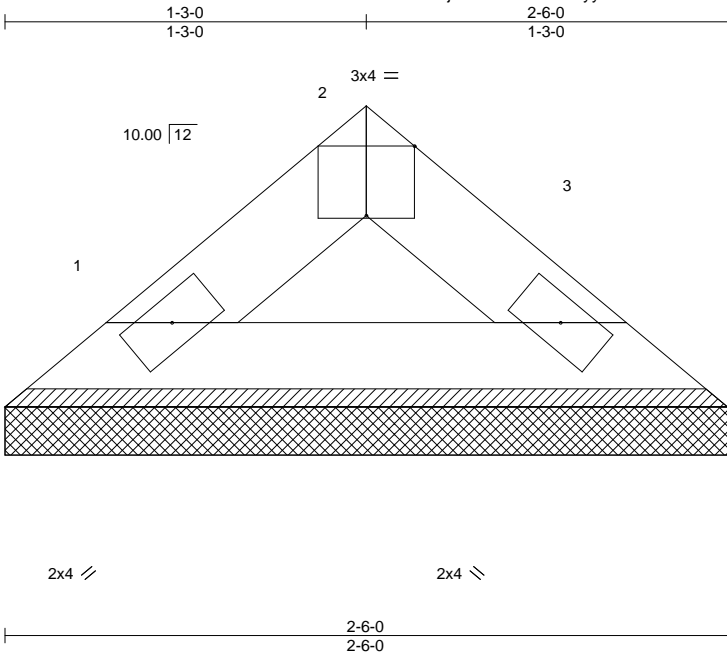


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.01
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 7 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 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-6-0, 3=2-6-0
Max Horz 1=19(LC 6)
Max Uplift 1=7(LC 10), 3=7(LC 11)
Max Grav 1=68(LC 1), 3=68(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 7, 2024

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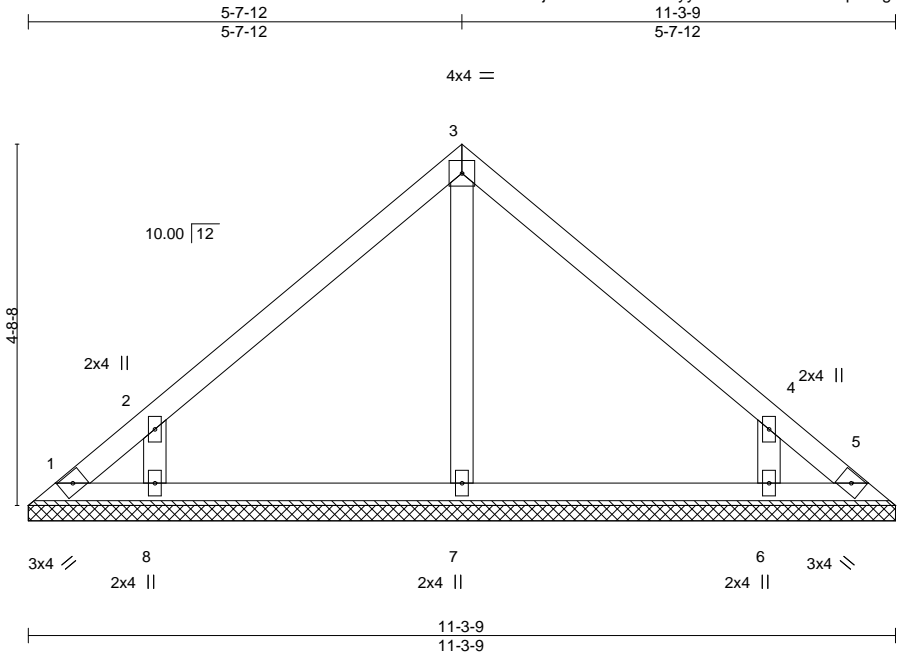
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VE1	Valley	1	1	I67389440
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:50 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/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.

All bearings 11-3-9.
(lb) - Max Horz 1=117(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=158(LC 10), 6=158(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=340(LC 17), 6=340(LC 18)

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

WEBS 2-8=-354/296, 4-6=-354/296

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=158, 6=158.



August 7, 2024

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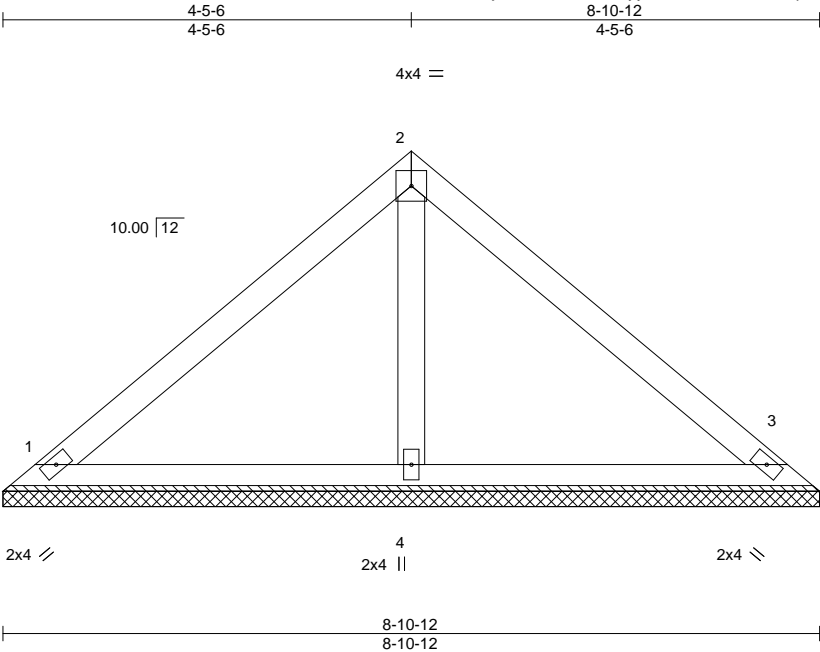
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VE2	Valley	1	1	I67389441
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:50 2024 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 34 lb	FT = 20%

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

REACTIONS. (size) 1=8-10-12, 3=8-10-12, 4=8-10-12
 Max Horz 1=-90(LC 6)
 Max Uplift 1=-40(LC 11), 3=-48(LC 11)
 Max Grav 1=187(LC 1), 3=187(LC 1), 4=273(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 7,2024

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VE3	Valley	1	1	I67389442
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:50 2024 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

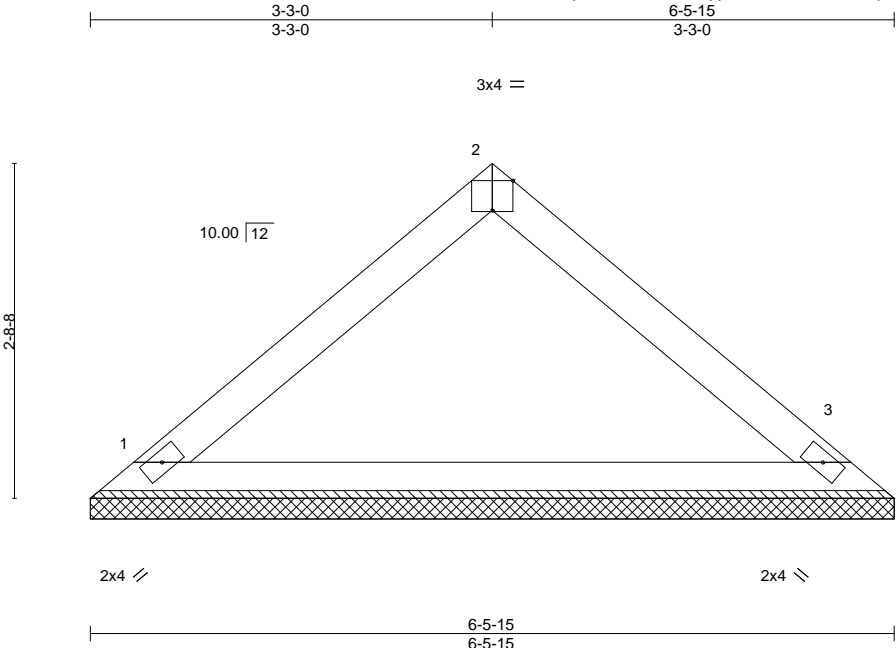


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13
TCDL 10.0	Lumber DOL	1.15	BC 0.31
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 21 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

BRACING-

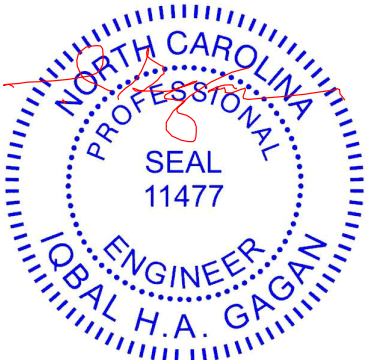
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. (size) 1=6-5-15, 3=6-5-15
Max Horz 1=63(LC 9)
Max Uplift 1=-25(LC 10), 3=-25(LC 11)
Max Grav 1=228(LC 1), 3=228(LC 1)

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

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 7,2024

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VE4	Valley	1	1	I67389443
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:51 2024 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

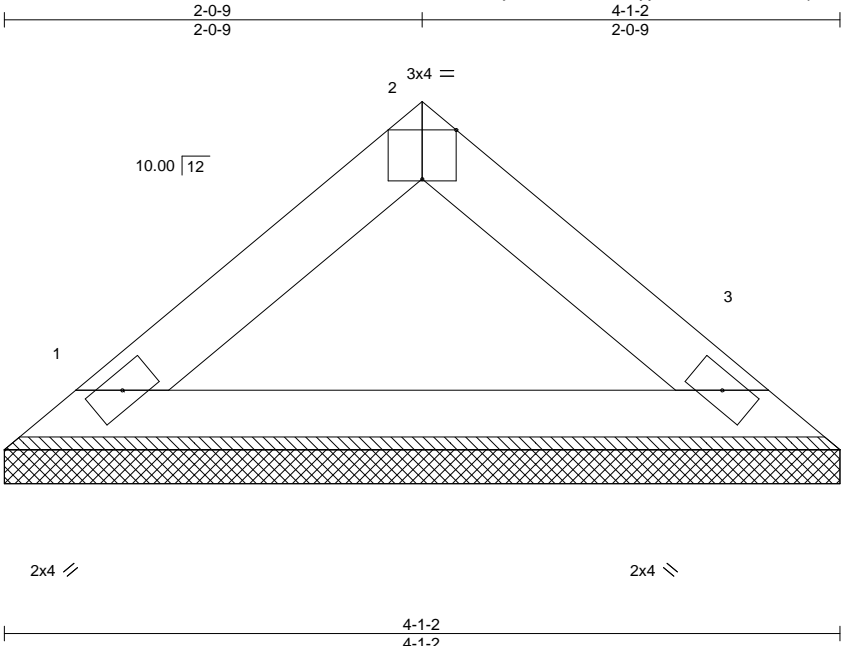


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.09
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
		DEFL. in (loc) l/defl L/d	
		Vert(LL) n/a - n/a 999	
		Vert(CT) n/a - n/a 999	
		Horz(CT) 0.00 3 n/a n/a	
		PLATES	GRIP
		MT20	244/190
		Weight: 13 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 4-1-2 oc purlins.

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

REACTIONS.

(size) 1=4-1-2, 3=4-1-2

Max Horz 1=37(LC 7)

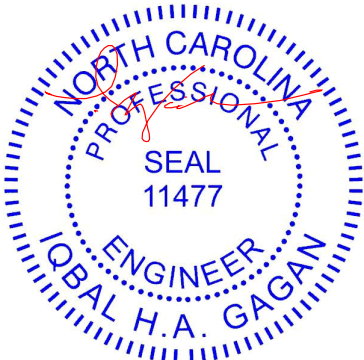
Max Uplift 1=14(LC 10), 3=14(LC 11)

Max Grav 1=132(LC 1), 3=132(LC 1)

FORCES.

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

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



August 7,2024

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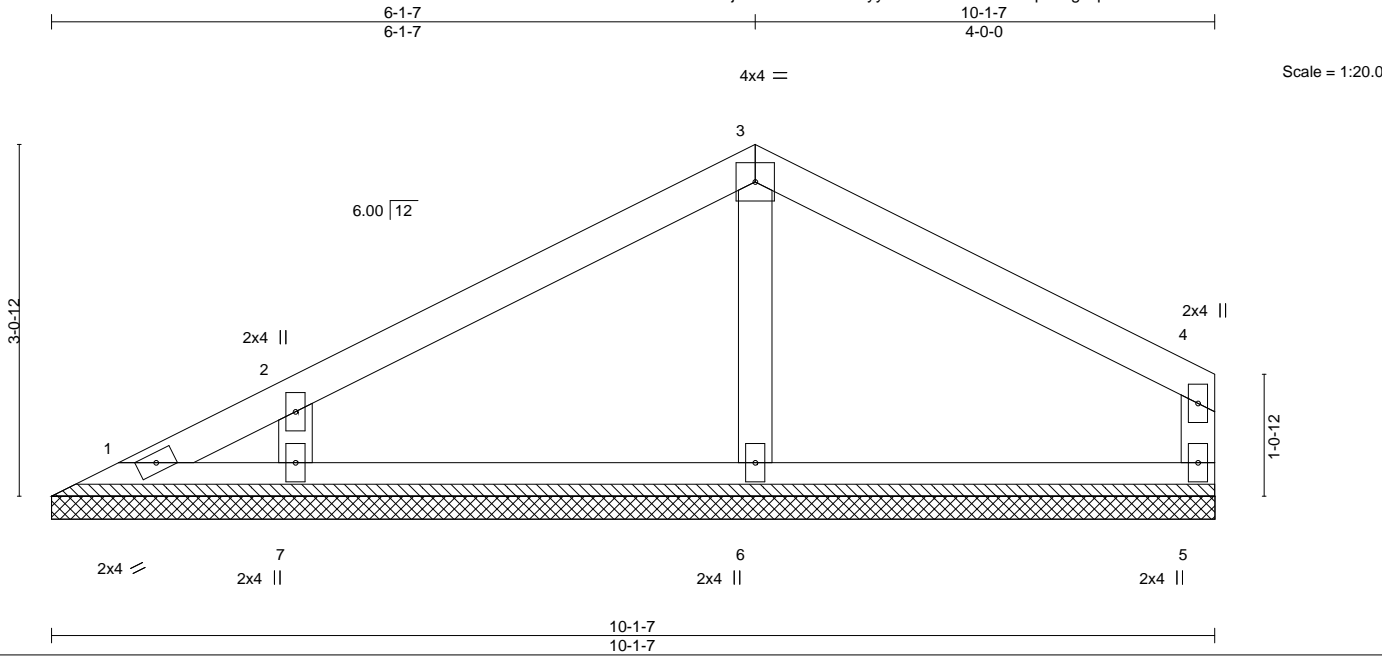
818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VG1	VALLEY	1	1	167389444
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:51 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 36 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

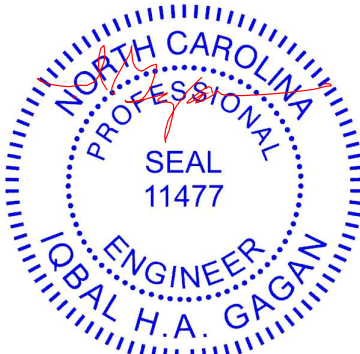
All bearings 10-1-7.
(lb) - Max Horz 1=56(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=261(LC 1), 7=295(LC 21)

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

WEBS 2-7=-235/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 7.



August 7, 2024

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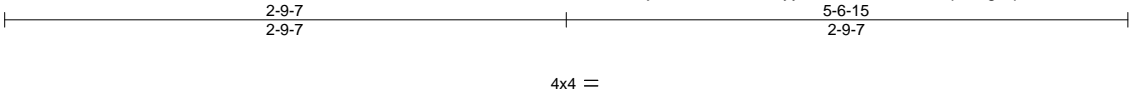
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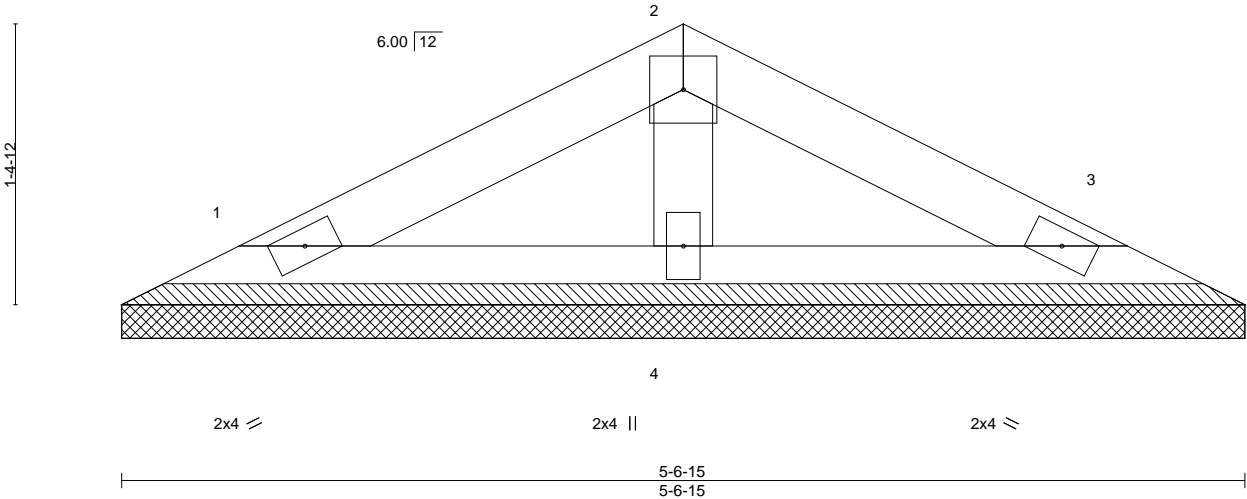
Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VG2	Valley	1	1	I67389445
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:51 2024 Page 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:11.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 17 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 5-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

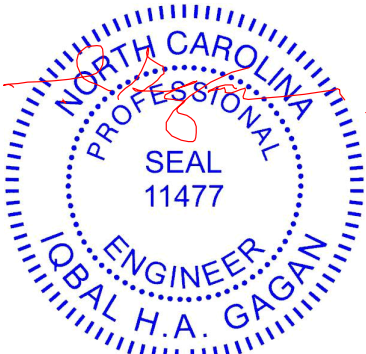
REACTIONS.

(size) 1=5-6-15, 3=5-6-15, 4=5-6-15
Max Horz 1=-16(LC 6)
Max Uplift 1=-20(LC 10), 3=-23(LC 11), 4=-4(LC 10)
Max Grav 1=88(LC 1), 3=88(LC 1), 4=171(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



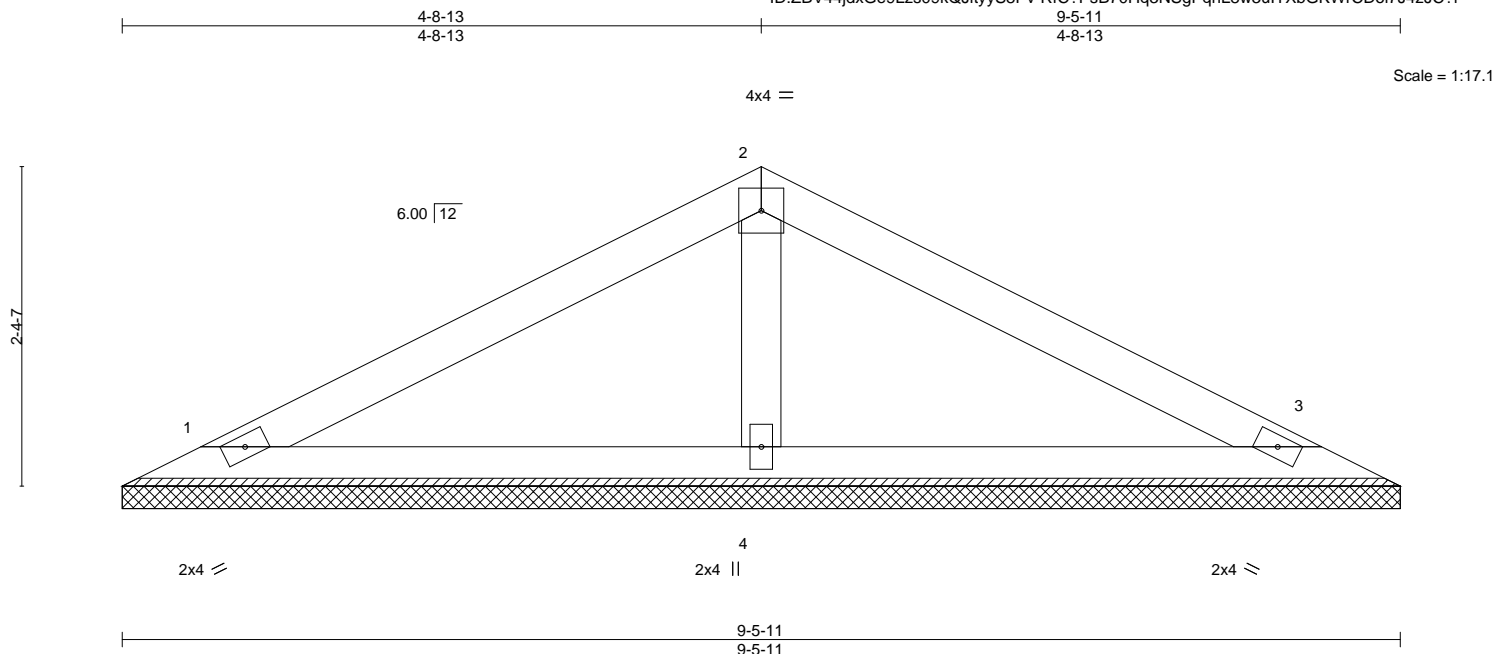
August 7, 2024

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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 30 lb	FT = 20%

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

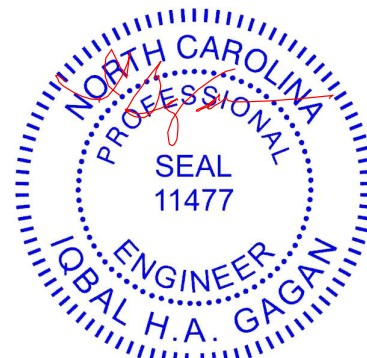
BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-5-11, 3=9-5-11, 4=9-5-11
 Max Horz 1=-30(LC 8)
 Max Uplift 1=-30(LC 10), 3=-36(LC 11), 4=-22(LC 10)
 Max Grav 1=152(LC 21), 3=152(LC 22), 4=357(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



August 7, 2024

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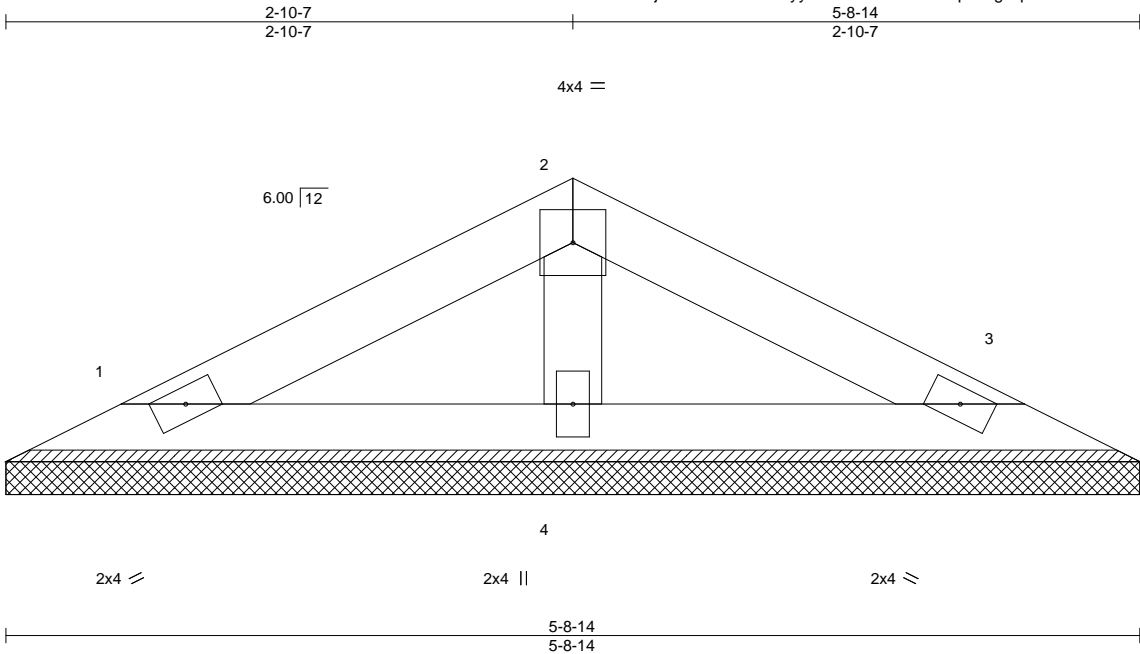
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates\106 Ducks Landing
J0325-1583	VK2	Valley	1	1	I67389447
Comtech, Inc., Fayetteville, NC - 28314,					Job Reference (optional)

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Aug 7 10:27:52 2024 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 17 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 5-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

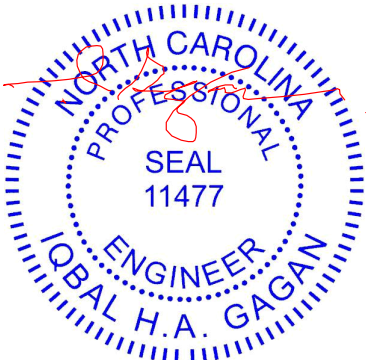
REACTIONS.

(size) 1=5-8-14, 3=5-8-14, 4=5-8-14
Max Horz 1=-16(LC 6)
Max Uplift 1=-21(LC 10), 3=-24(LC 11), 4=-4(LC 10)
Max Grav 1=92(LC 1), 3=92(LC 1), 4=177(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



August 7, 2024

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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TRENCO
A MiTek Affiliate

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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING

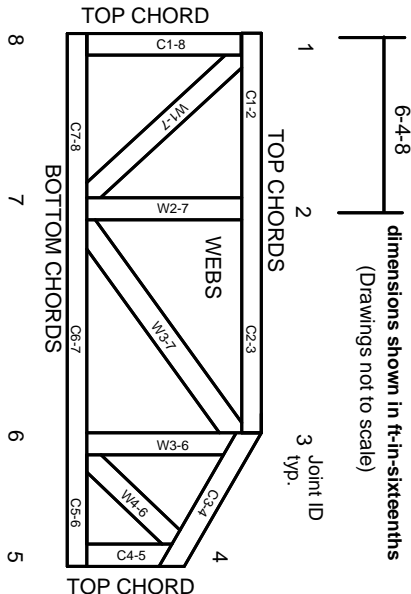


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

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

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 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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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023