

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0325-1593

Lot 78 Ducks Landing

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

Pages or sheets covered by this seal: I73935928 thru I73935957

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

North Carolina COA: C-0844



June 4,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935928 J0325-1593 COMMON SUPPORTED GAB A01GE Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:35 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 11-11-12

Scale: 3/16"=1"

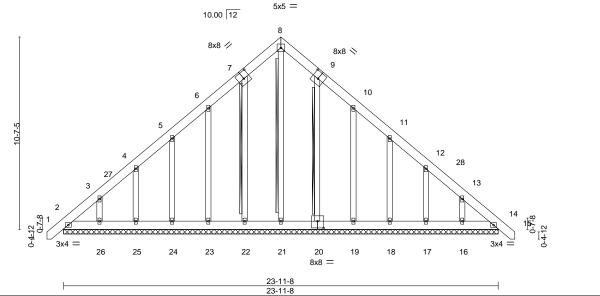


Plate Offsets (X,Y)--[7:0-4-0,0-4-8], [9:0-4-0,0-4-8], [20:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 14 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 14 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.11 Horz(CT) 0.01 14 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 219 lb FT = 25%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 8-21, 7-22, 9-20 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 23-11-8.

Max Horz 2=-319(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 20, 14 except 23=-113(LC 12), 24=-112(LC 12), 25=-110(LC 12), 26=-127(LC 12), 19=-116(LC 13), 18=-112(LC

11-11-12 11-11-12

13), 17=-110(LC 13), 16=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 20, 19,

18, 17, 16, 14

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

TOP CHORD 2-3=-360/235, 13-14=-303/150

BOT CHORD 2-26=-125/287, 25-26=-125/287, 24-25=-125/287, 23-24=-125/287, 22-23=-125/287,

21-22=-125/288, 20-21=-125/288, 19-20=-123/286, 18-19=-123/286, 17-18=-123/286,

16-17=-123/286, 14-16=-123/286

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-9 to 3-7-4, Exterior(2N) 3-7-4 to 11-11-12, Corner(3R) 11-11-12 to 16-4-9, Exterior(2N) 16-4-9 to 24-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 20, 14 except (jt=lb) 23=113, 24=112, 25=110, 26=127, 19=116, 18=112, 17=110, 16=125.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4,2025



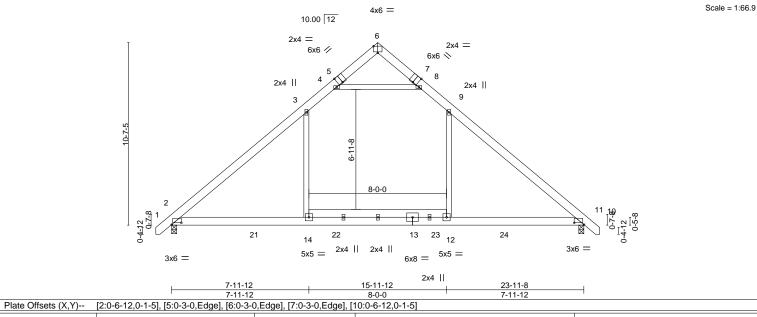
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TP11 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)



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935929 J0325-1593 COMMON 4 A02 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:36 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-12 11-11-12 . 15-11-12 <u>23-11-</u>8 7-11-12 4-0-0 4-0-0 7-11-12



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.17 12-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.22 12-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02 10	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2	2014	Matri	x-AS	Wind(LL)	0.17 14-17	>999	240	Weight: 180 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WFBS 2x4 SP No.2

REACTIONS. 2=0-3-8, 10=0-3-8 (size)

Max Horz 2=-255(LC 10)

Max Grav 2=1296(LC 19), 10=1296(LC 20)

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

TOP CHORD 2-3=-1579/79, 3-4=-979/204, 4-6=-27/290, 6-8=-27/291, 8-9=-979/204, 9-10=-1579/79 **BOT CHORD** 2-14=0/1136. 12-14=0/1136. 10-12=0/1136

WEBS 9-12=0/570, 3-14=0/570, 4-8=-1392/273

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-11-12, Exterior(2R) 11-11-12 to 16-1-8, Interior(1) 16-1-8 to 24-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 11-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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)



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935930 J0325-1593 **ROOF SPECIAL** 2 A03 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:37 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x6 =

-0-11-0 2-3-8 0-11-0 2-3-8 7-11-12 11-11-12 . 15-11-12 23-11-8 7-11-12 5-8-4 4-0-0 4-0-0

Scale: 3/16"=1"

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

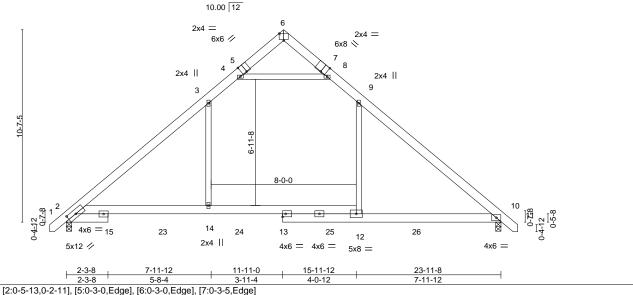


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.21 14-19 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.31 14-19 >911 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.73 Horz(CT) 0.09 10 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Wind(LL) 0.19 14-19 >999 240 Weight: 175 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2 WFBS

> 2=0-3-8, 10=0-3-8 (size)

Max Horz 2=256(LC 11)

Max Grav 2=1410(LC 19), 10=1409(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1781/78, 3-4=-1096/203, 4-6=-19/353, 6-8=-24/325, 8-9=-1138/199,

9-10=-1834/77 BOT CHORD

2-14=0/1323, 12-14=0/1323, 10-12=0/1323 WFBS 3-14=0/797, 9-12=0/753, 4-8=-1642/263

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-11-12, Exterior(2R) 11-11-12 to 16-1-8, Interior(1) 16-1-8 to 24-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 11-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 4,2025

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Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935931 J0325-1593 **ROOF SPECIAL** 3 A04 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

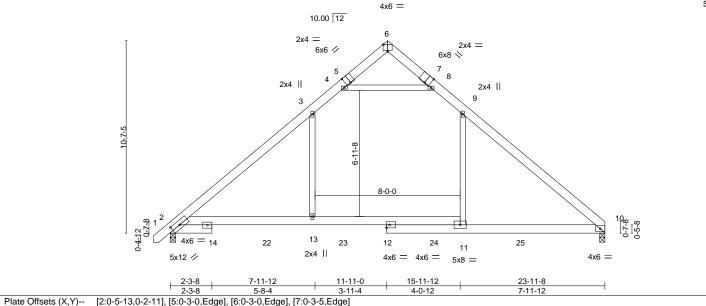
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:37 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

7-11-12 11-11-12 15-11-12 23-11-8 7-11-12 5-8-4 4-0-0 4-0-0

Scale: 3/16"=1"



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.21 13-18 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.31 13-18 >913 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.09 10 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.19 13-18 >999 240	Weight: 172 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=251(LC 11)

Max Grav 2=1410(LC 19), 10=1363(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1783/80, 3-4=-1098/204, 4-6=-21/353, 6-8=-25/327, 8-9=-1138/202,

9-10=-1834/82 BOT CHORD

2-13=0/1316, 11-13=0/1316, 10-11=0/1316 WFBS 3-13=0/798, 9-11=0/753, 4-8=-1643/270

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-11-12, Exterior(2R) 11-11-12 to 16-1-8, Interior(1) 16-1-8 to 23-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 11-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935932 J0325-1593 COMMON 2 A05 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:38 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-12 11-11-12 15-11-12 23-11-8 7-11-12 4-0-0 4-0-0 Scale = 1:66.9 4x6 = 10.00 12 6x12 // 2x4 = 2x4 = 2x4 || 2x4 || 8 10-7-5 6-11-8 8-0-0 0 19 20 22 21 10 12 2x4 || 2x4 || 4x6 =6x6 = 6x6 = 6x8 = 4x6 =2x4 || 15-11-12 7-11-12 7-11-12 8-0-0

Plate Offsets (X,Y)	[5:0-3-5,Eage], [6:0-3-0,Eage], [10:0-3-0	1,0-1-12], [12:0-3-0,0-2-8]	
			-

LOADIN	G (psf)	SPACING- 2-1-8	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.19 10-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.26 10-15	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.66	Horz(CT) 0.02 9	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL) 0.19 12-18	>999	240	Weight: 178 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.2

REACTIONS. 9=Mechanical, 2=0-3-8 (size)

Max Horz 2=266(LC 9)

Max Grav 9=1323(LC 20), 2=1371(LC 19)

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

TOP CHORD 2-3=-1677/99, 3-4=-1039/225, 4-6=-36/307, 6-7=-35/308, 7-8=-1038/226, 8-9=-1675/99 **BOT CHORD** 2-12=0/1197 10-12=0/1198 9-10=0/1197

WEBS 8-10=0/607, 3-12=0/607, 4-7=-1480/312

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-11-12, Exterior(2R) 11-11-12 to 16-1-8, Interior(1) 16-1-8 to 23-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 11-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.



Structural wood sheathing directly applied or 5-4-2 oc purlins.

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

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Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935933 J0325-1593 COMMON A06 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:38 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-11-12 11-11-12 15-11-12 23-11-8 7-11-12 4-0-0 4-0-0 7-11-12 Scale = 1:66.9 4x6 = 10.00 12 6x6 🖊 2x4 = 2x4 = 2x4 || 2x4 || 8 6-11-8 8-0-0 P 19 20 21 22 10 12 2x4 || 2x4 || 3x6 =5x5 = 5x5 = 6x8 = 3x6 =2x4 || 15-11-12 7-11-12 8-0-0 7-11-12

Plate Offsets (X,Y)	[2:0-6-12,0-1-5], [5:0-3-0,Edge], [6:0-3-0),Edge], [9:0-6-4,0-0-13]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/def	l L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.17	10-15 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.22	10-15 >999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.02	9 n/a	a n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.17	12-18 >999	240	Weight: 178 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1 WFBS

2x4 SP No.2

9=Mechanical, 2=0-3-8 (size)

Max Horz 2=250(LC 9)

Max Grav 9=1251(LC 20), 2=1296(LC 19)

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

TOP CHORD 2-3=-1581/80, 3-4=-981/205, 4-6=-28/291, 6-7=-28/292, 7-8=-980/206, 8-9=-1579/81 **BOT CHORD** 2-12=0/1129. 10-12=0/1129. 9-10=0/1129

WEBS 8-10=0/571, 3-12=0/571, 4-7=-1395/277

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-11-12, Exterior(2R) 11-11-12 to 16-1-8, Interior(1) 16-1-8 to 23-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 11-11-12 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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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)



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935934 COMMON SUPPORTED GAB J0325-1593 A07GE Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:39 2025 Page 1 Comtech, Inc.

ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-11-12 11-11-12 11-11-12

Scale: 3/16"=1"

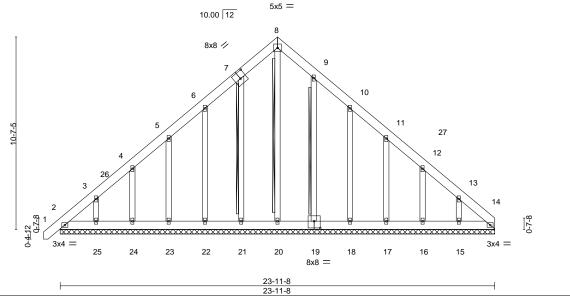


Plate Offsets (X,Y)--[7:0-4-0,0-4-8], [19:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.11 Horz(CT) 0.01 14 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 217 lb FT = 25%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 8-20, 7-21, 9-19 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 23-11-8.

Max Horz 2=313(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 21, 19 except 22=-113(LC 12),

23=-112(LC 12), 24=-110(LC 12), 25=-128(LC 12), 18=-126(LC 13), 17=-111(LC

13), 16=-107(LC 13), 15=-137(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 14, 2, 20, 21, 22, 23, 24, 25, 19,

18, 17, 16, 15

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

TOP CHORD 2-3=-362/232, 3-4=-251/189, 13-14=-317/158

BOT CHORD 2-25=-121/269, 24-25=-121/269, 23-24=-121/269, 22-23=-121/269, 21-22=-121/269,

20-21=-120/269, 19-20=-120/269, 18-19=-120/270, 17-18=-120/269, 16-17=-120/269,

15-16=-120/269, 14-15=-120/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-9 to 3-7-4, Exterior(2N) 3-7-4 to 11-11-12, Corner(3R) 11-11-12 to 16-4-9, Exterior(2N) 16-4-9 to 23-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 21, 19 except (jt=lb) 22=113, 23=112, 24=110, 25=128, 18=126, 17=111, 16=107, 15=137.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935935 J0325-1593 B01GE **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:39 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except end verticals.

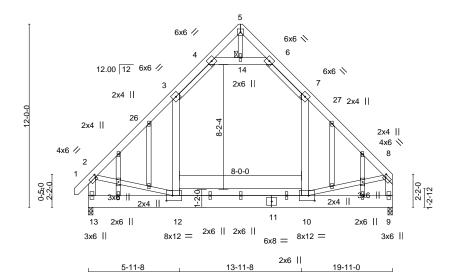
5-11-8

Rigid ceiling directly applied.

1 Brace at Jt(s): 14

8-0-12 12-11-0 9-11-8 11-10-4 13-11-8 1-10-12 1-10-12 1-0-8 19-11-0 -0-11-0 0-11-0 1-0-12 1-0-12 5x5 =

Scale = 1:75.5



5-11-8 Plate Offsets (X,Y)-- [2:0-0-12,0-2-0], [8:0-1-4,0-2-0], [10:0-4-12,0-4-0], [12:0-4-12,0-4-0]

LOADIN	G (nef)	SPACING- 2-0)-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
LUADIN	G (psi)	SFACING- 2-0)-0	COI.		DEFE.	111 (100)	i/ueii	L/u	FLAILS	GKIF
TCLL	20.0	Plate Grip DOL 1.	15	TC	0.49	Vert(LL)	-0.08 10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	15	BC	0.39	Vert(CT)	-0.14 10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.14	Horz(CT)	0.00 9	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI201	4	Matri	k-AS	Wind(LL)	0.07 10-12	>999	240	Weight: 262 lb	FT = 25%

8-0-0

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x10 SP No.1 *Except* 10-12: 2x6 SP No.1

WFBS 2x6 SP No.1 *Except*

5-14,2-12,8-10,3-4,6-25: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. (size) 13=0-3-8, 9=0-3-8

Max Horz 13=384(LC 11)

Max Grav 13=1248(LC 21), 9=1209(LC 20)

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

TOP CHORD 2-3=-1325/54, 3-4=-764/139, 6-7=-767/140, 7-8=-1316/51, 2-13=-1280/49,

8-9=-1238/32

BOT CHORD 12-13=-408/553, 10-12=0/849

WEBS 7-10=-52/449, 3-12=-49/465, 4-14=-1011/236, 6-14=-1011/236, 2-12=-41/698,

8-10=-43/725

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C: Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-11-8, Exterior(2R) 9-11-8 to 14-2-4, Interior(1) 14-2-4 to 19-8-4 zone; end vertical 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) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).7-10, 3-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Attic room checked for L/360 deflection.



June 4,2025

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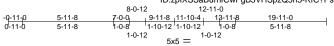
Job	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing
		ATTIO			173935936
J0325-1593	B02	ATTIC	2	1	Job Reference (ontional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:40 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Brace at Jt(s): 14



Scale = 1:75.5

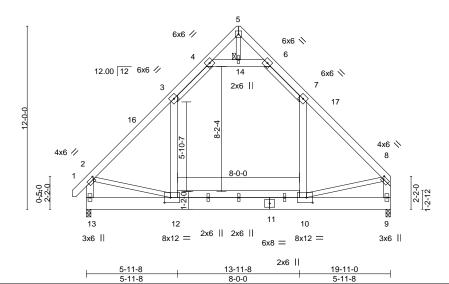


Plate Offsets (X,Y)	[2:0-0-12,0-2-0], [8:0-1-4,0-2-0]], [10:0-4-12,0-4-0], [12:0-4-12,0-4-0]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.08 10-12 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.14 10-12 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 9 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.05 10-12 >999 240	Weight: 242 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x10 SP No.1 *Except*

10-12: 2x6 SP No.1 **WEBS** 2x6 SP No.1 *Except*

5-14,2-12,8-10,3-4,6-15: 2x4 SP No.2

REACTIONS.

(size) 13=0-3-8, 9=0-3-8 Max Horz 13=307(LC 9)

Max Grav 13=1252(LC 21), 9=1210(LC 20)

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

TOP CHORD 2-3=-1309/3, 3-4=-762/139, 6-7=-765/140, 7-8=-1300/0, 2-13=-1269/49, 8-9=-1224/3

BOT CHORD 12-13=-318/491. 10-12=0/824

WEBS $7\text{-}10\text{=-}26/449,\ 3\text{-}12\text{=-}23/465,\ 4\text{-}14\text{=-}1019/236,\ 6\text{-}14\text{=-}1019/236,\ 2\text{-}12\text{=-}0/658,\ 8\text{-}10\text{=-}0/686}$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-11-8, Exterior(2R) 9-11-8 to 14-2-4, Interior(1) 14-2-4 to 19-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).7-10, 3-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Attic room checked for L/360 deflection.



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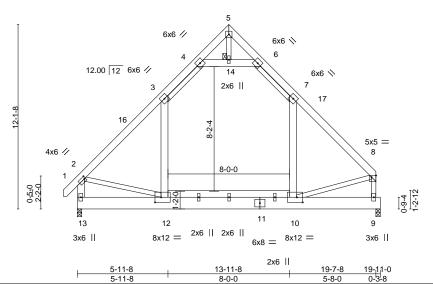


Job	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing	
						173935937
J0325-1593	B03	ATTIC	4	1		
					Llob Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:41 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-0-12 12-11-0 9-11-8 | 11-10-4 | 13-11-8 | 1-10-12 | 1-0-8 19-7-8 19-11-0 0-3-8 0-11-0 5-11-8 7-0-0 5-11-8 1-0-8 1-0-12 1-0-12 5x5 =

Scale = 1:75.7



5-11-8 Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [8:Edge,0-1-4], [10:0-4-12,0-4-0], [12:0-4-12,0-4-0]

LOADIN TCLL	IG (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.36	DEFL. in (loc) I/defl L/d Vert(LL) -0.11 10-12 >999 360	PLATES GRIP MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.20 10-12 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 9 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.09 10-12 >999 240	Weight: 240 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 1

2x10 SP No.1 *Except* **BOT CHORD** 10-12: 2x6 SP No.1

WEBS 2x4 SP No.2 *Except* 3-12,7-10,4-6,2-13: 2x6 SP No.1

REACTIONS.

(size) 13=0-3-8, 9=0-3-8

Max Horz 13=-286(LC 10) Max Uplift 13=-34(LC 13), 9=-37(LC 12)

Max Grav 13=833(LC 1), 9=768(LC 1)

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

TOP CHORD 2-3=-727/193, 3-4=-452/275, 6-7=-462/240, 7-8=-687/218, 2-13=-754/217,

8-9=-696/205

BOT CHORD 12-13=-335/468, 10-12=-16/419

WEBS 3-12=0/307, 4-14=-629/411, 6-14=-629/411, 2-12=-187/366, 8-10=-81/473

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-11-8, Exterior(2R) 9-11-8 to 14-2-4, Interior(1) 14-2-4 to 19-5-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Brace at Jt(s): 14

June 4.2025

Job	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing
					173935938
J0325-1593	C01GE	GABLE	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:41 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-11-12 12-10-0 8-3-12 18-3-8 3-9-12 0-10-0 2-10-4 0-10-0 4x6 =

Scale = 1:62.8

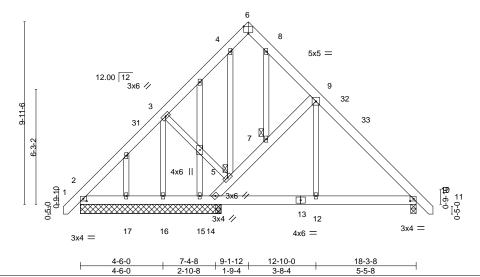


Plate Offsets (X,Y)-- [2:0-2-3,0-1-8], [6:0-3-0,Edge], [10:0-2-3,0-1-8]

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. in (loc) I/defl L/d Vert(LL) 0.01 12-26 >999 240	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 12-26 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 10 n/a n/a	
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS		Weight: 181 lb FT = 25%

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 WERS **OTHERS** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD JOINTS

Structural wood sheathing directly applied.

Rigid ceiling directly applied. 1 Brace at Jt(s): 5, 7

REACTIONS. All bearings 7-8-0 except (jt=length) 10=0-3-8.

(lb) -Max Horz 2=-298(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 17 except 16=-129(LC 12), 14=-187(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 15, 17, 2 except 2=252(LC 20), 10=514(LC 1), 16=320(LC 19), 14=460(LC 1), 14=460(LC 1), 14=460(LC 1)

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

TOP CHORD 9-10=-478/62, 5-14=-438/260, 5-7=-390/266, 7-9=-359/268

BOT CHORD 2-17=-144/256, 16-17=-144/256, 15-16=-144/256, 14-15=-144/256, 12-14=0/284,

10-12=0/284

WEBS 3-16=-298/181

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9. Interior(1) 13-6-9 to 19-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 10, 15, 17, 2 except (it=lb) 16=129, 14=187, 14=187,
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935939 J0325-1593 C02 COMMON 3 Job Reference (optional)

9-1-12 9-1-12

Fayetteville, NC - 28314, Comtech, Inc.

-0-11-0 0-11-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:42 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-3-8 9-1-12

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:60.3 5x8 ||

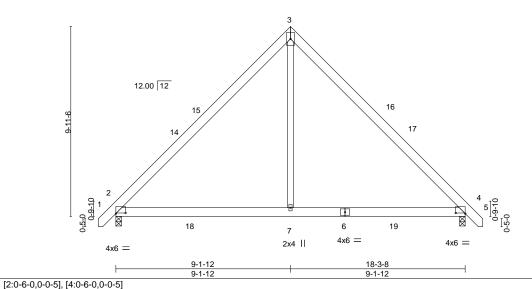


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) -0.08 7-10 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.45 -0.12 7-10 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.17 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-AS Wind(LL) 0.06 7-13 >999 240 Weight: 124 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=238(LC 11)

Max Uplift 4=-34(LC 13), 2=-34(LC 12) Max Grav 4=999(LC 20), 2=999(LC 19)

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

TOP CHORD 2-3=-994/223, 3-4=-994/223

BOT CHORD 2-7=0/676, 4-7=0/676

WFBS 3-7=0/758

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9, Interior(1) 13-6-9 to 19-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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 78 Ducks Landing 173935940 J0325-1593 C03-GR FINK 2 Job Reference (optional)

5x8 ||

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:43 2025 Page 1

ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-10-9 9-1-12 13-4-15 18-3-8 4-10-9 4-3-3 4-3-3 4-10-9

Scale = 1:60.3

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

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

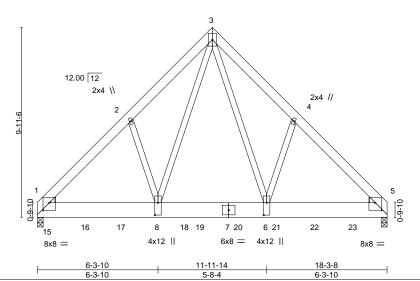


Plate Offsets (X,Y)-- [1:0-4-0,0-4-12], [5:0-4-0,0-4-12], [6:0-7-12,0-2-0], [8:0-7-12,0-2-0]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -	-0.06	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -	-0.10	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MS	Wind(LL)	0.03	6-8	>999	240	Weight: 351 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No 1 BOT CHORD 2x10 SP 2400F 2 0F

WFBS 2x4 SP No 2

WEDGE

Left: 2x4 SP No.1, Right: 2x4 SP No.1

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=219(LC 26) Max Uplift 1=-286(LC 9), 5=-247(LC 8)

Max Grav 1=6752(LC 2), 5=5807(LC 2)

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

TOP CHORD 1-2=-6258/326, 2-3=-6194/422, 3-4=-6113/419, 4-5=-6181/323

BOT CHORD $1-8=-231/4410,\ 6-8=-122/3050,\ 5-6=-161/4350$

WEBS 2-8=-259/202, 3-8=-315/4464, 3-6=-307/4271, 4-6=-259/207

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 0-7-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-6-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=286, 5=247.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1210 lb down and 56 lb up at 0-5-4, 1201 lb down and 61 lb up at 2-5-4, 1276 lb down and 65 lb up at 4-3-12, 1276 lb down and 65 lb up at 6-6-12, 1173 lb down and 61 lb up at 8-5-4, 1182 lb down and 61 lb up at 10-5-4, 1201 lb down and 61 lb up at 12-5-4, and 1201 lb down and 61 lb up at 14-5-4, and 1201 lb down and 61 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

June 4.2025



Job	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing
J0325-1593	C03-GR	FINK	1	2	[73935940

✓ Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:43 2025 Page 2 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 9-12=-20, 1-3=-60, 3-5=-60

Concentrated Loads (lb)

Vert: 8=-996(B) 15=-943(B) 16=-938(B) 17=-996(B) 19=-938(B) 20=-938(B) 21=-938(B) 22=-938(B) 23=-938(B)

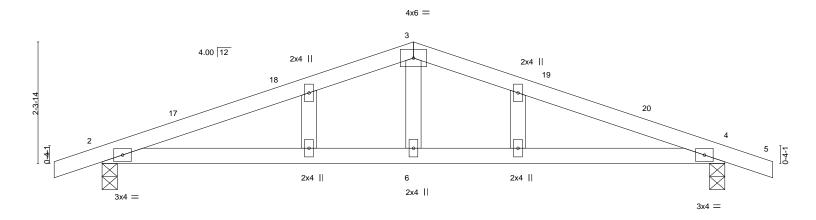
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JOD	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing	
						173935941
J0325-1593	D01GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	ville, NC - 28314,		3	3.630 s Sep	o 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:43 2	2025 Page 1
		I	D:zpIXSSaBurhfC	wFgB5VH	SpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCl	Doi7J4zJC?f
0-11-0	5-	11-8	·		11-11-0	12-10-0
0-11-0	5-	I1-8			5-11-8	0-11-0

Scale = 1:22.0



	5-		+		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15 Lumber DOL 1.15 * Rep Stress Incr YES	CSI. TC 0.27 BC 0.30 WB 0.06	Vert(LL) -0.04 6- Vert(CT) -0.08 6- Horz(CT) 0.01	13 >999 240 4 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.05 6-	13 >999 240	Weight: 45 lb FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=46(LC 12)

Max Uplift 2=-159(LC 8), 4=-159(LC 9) Max Grav 2=532(LC 1), 4=532(LC 1)

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

TOP CHORD 2-3=-887/498, 3-4=-887/498 BOT CHORD 2-6=-376/812, 4-6=-376/812

WFBS 3-6=0/265

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8, Exterior(2R) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 4,2025

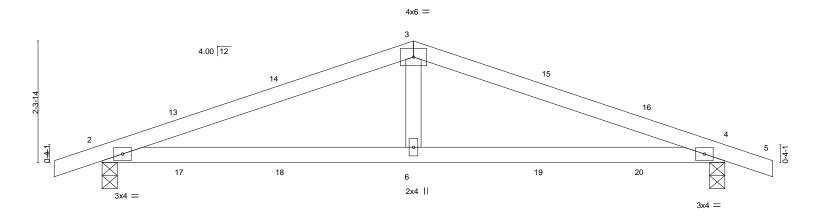
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



Job	Truss	Truss Type	Qty	Ply	Lot 78 Ducks Landing		
						173935942	
J0325-1593	D02	Common	4	1			
					Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,			.630 s Sep	26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:43 2	025 Page 1	_
•			ID:zpIXSSaBurhfC	wFgB5VH	SpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCD	oi7J4zJC?f	
-0-11-0	5-	11-8		_	11-11-0	12-10-0	
0-11-0	5-	11-8			5-11-8	0-11-0	

Scale = 1:22.0



	5-11-8 5-11-8		+				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.43 BC 0.35 WB 0.06 Matrix-AS	DEFL. in Vert(LL) -0.04 Vert(CT) -0.08 Horz(CT) -0.02 Wind(LL) 0.13	6-9 >999 6-9 >999 4 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 42 lb	GRIP 244/190 FT = 25%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SP No.2 **WEBS**

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=27(LC 12)

Max Uplift 2=-204(LC 8), 4=-204(LC 9) Max Grav 2=532(LC 1), 4=532(LC 1)

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

2-3=-887/1480, 3-4=-887/1480 TOP CHORD BOT CHORD 2-6=-1317/812, 4-6=-1317/812

WEBS 3-6=-538/265

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8, Exterior(2R) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 4=204.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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173935943 J0325-1593 G01GE COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:44 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 15-11-0 16-10-0 7-11-8 7-11-8 0-11-0 Scale = 1:34.7 5x5 = 6 8.00 12 20 19 10 11 3x4 = 3x4 = 17 18 16 15 14 13 12 15-11-0 15-11-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) 0.00 10 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.02 Vert(CT) 0.00 10 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 10 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 117 lb FT = 25%

Qty

Ply

Lot 78 Ducks Landing

LUMBER-

OTHERS

Job

Truss

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **BRACING-**

TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 15-11-0.

2x4 SP No.2

Max Horz 2=175(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 14, 13, 12 except 18=-102(LC 12)

Truss Type

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

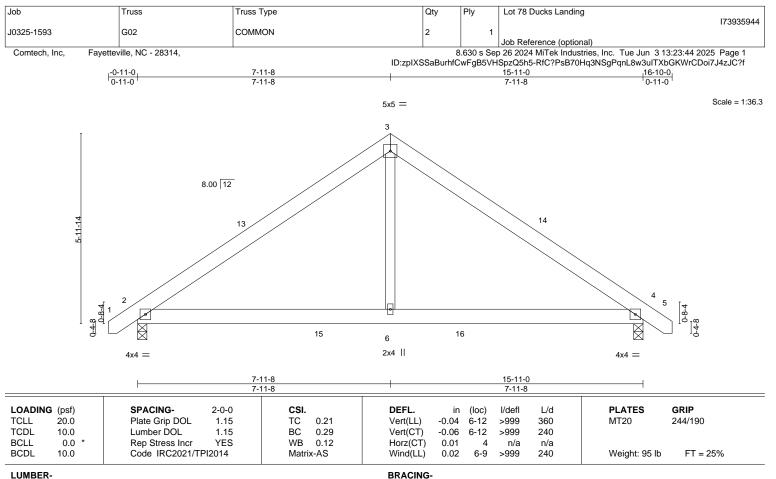
- 1) Unbalanced roof live loads have been considered for this design.
- MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 7-11-8, Corner(3R) 7-11-8 to 12-4-5, Exterior(2N) 12-4-5 to 16-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 14, 13, 12 except (jt=lb) 18=102.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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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TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS

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

Max Horz 2=140(LC 11)

Max Uplift 2=-44(LC 12), 4=-44(LC 13) Max Grav 2=822(LC 19), 4=822(LC 20)

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

TOP CHORD 2-3=-918/207, 3-4=-918/207 **BOT CHORD** 2-6=-11/735, 4-6=-11/735

WEBS 3-6=0/523

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 7-11-8, Exterior(2R) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 4.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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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)



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935945 COMMON SUPPORTED GAB J0325-1593 H01GE Job Reference (optional)

5x5 =

5-5-8

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:45 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-11-0

5-5-8

Scale = 1:37.8

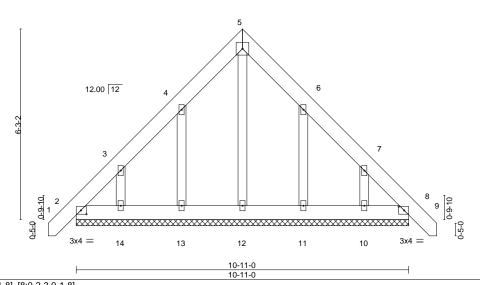


Plate Offsets (X,Y)--[2:0-2-3,0-1-8], [8:0-2-3,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 8 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 8 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.07 Horz(CT) 0.00 8 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Weight: 90 lb FT = 25%

LUMBER-

OTHERS

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No 1 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD**

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

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

REACTIONS. All bearings 10-11-0.

(lb) -Max Horz 2=188(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-135(LC 12), 14=-152(LC 12), 11=-131(LC 13),

10=-150(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

2-14=-86/267, 13-14=-88/269, 12-13=-89/270, 11-12=-89/270, 10-11=-88/269, BOT CHORD

8-10=-86/266

WEBS 3-14=-168/280, 7-10=-169/280

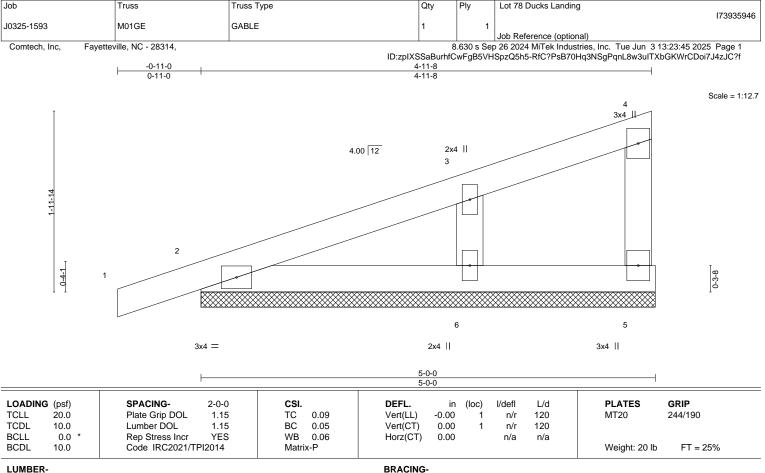
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-10 to 3-5-5, Exterior(2N) 3-5-5 to 5-5-8, Corner(3R) 5-5-8 to 9-10-5, Exterior(2N) 9-10-5 to 11-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (it=lb) 13=135, 14=152, 11=131, 10=150.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.



June 4,2025





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 2 WFBS **OTHERS** 2x4 SP No.2

REACTIONS. (size) 5=5-0-0, 2=5-0-0, 6=5-0-0

Max Horz 2=94(LC 8)

Max Uplift 5=-17(LC 8), 2=-64(LC 8), 6=-81(LC 12) Max Grav 5=43(LC 1), 2=162(LC 1), 6=235(LC 1)

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

WEBS 3-6=-180/352

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 4-9-12 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 2-0-0 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



Structural wood sheathing directly applied or 4-11-8 oc purlins,

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

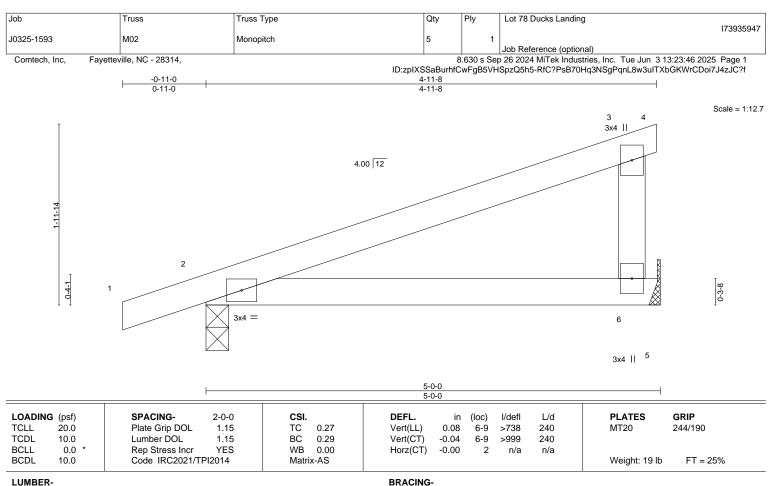
except end verticals

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)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

WFBS REACTIONS.

2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

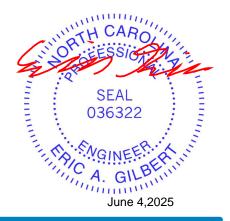
2x4 SP No.2

(size) 6=Mechanical, 2=0-3-0 Max Horz 2=68(LC 8) Max Uplift 6=-78(LC 8), 2=-99(LC 8) Max Grav 6=194(LC 1), 2=248(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



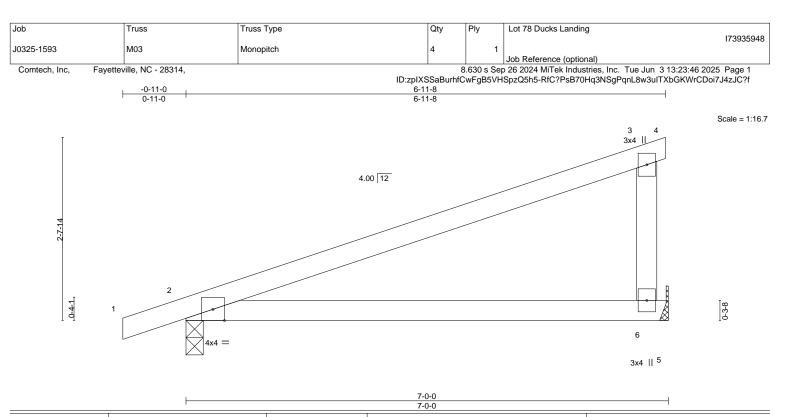
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.31	6-9	>256	240	MT20	244/190
TCDL	10.0	Lumber DOL '	1.15	BC	0.62	Vert(CT)	-0.17	6-9	>484	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI20	014	Matri	x-AS						Weight: 26 lb	FT = 25%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

WFBS REACTIONS. 2x4 SP No.1 2x4 SP No.1

2x4 SP No.2

(size) 6=Mechanical, 2=0-3-0

Max Horz 2=90(LC 8)

Max Uplift 6=-114(LC 8), 2=-126(LC 8) Max Grav 6=276(LC 1), 2=326(LC 1)

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

TOP CHORD 3-6=-185/289

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-11-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=114, 2=126,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

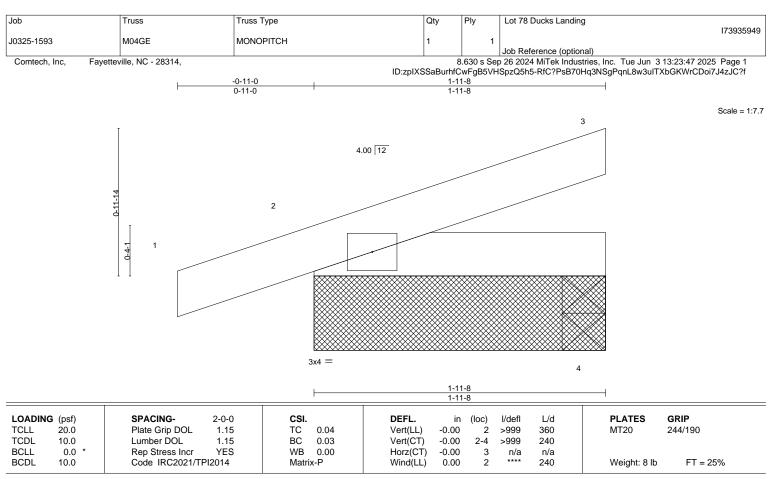
June 4,2025

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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LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins.

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

REACTIONS. All bearings 1-11-8 except (jt=length) 4=0-3-8, 4=0-3-8.

(lb) - Max Horz 2=49(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 3, 2

Max Grav All reactions 250 lb or less at joint(s) 3, 2, 4, 4

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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 3-6-0 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) 3, 2.



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Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935950 J0325-1593 V1 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:47 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-0-0 3-0-0 5-8-11 Scale = 1:24.3 4x4 = 2 8.00 12 3x4 II 3 2x4 || 1-9-12 9-0-0 6 3x4 < 2x4 || 2x4 II 3x4 II 8-8-11

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defl	L/d	PLATES C	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) n/a	-	n/a	999	MT20 2	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P					Weight: 36 lb	FT = 25%

8-8-11

LUMBER-**BRACING-**

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

2x4 SP No.2 WFBS 2x4 SP No.2 **OTHERS**

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 8-8-2.

(lb) -Max Horz 7=-82(LC 8)

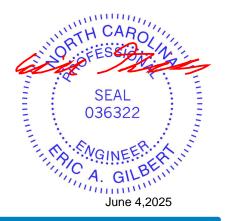
Max Uplift All uplift 100 lb or less at joint(s) 7, 4 except 5=-109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 7, 4 except 6=255(LC 1), 5=351(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-5=-299/314

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 3-0-0, Exterior(2R) 3-0-0 to 7-4-13, Interior(1) 7-4-13 to 8-2-12 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4 except (jt=lb) 5=109.

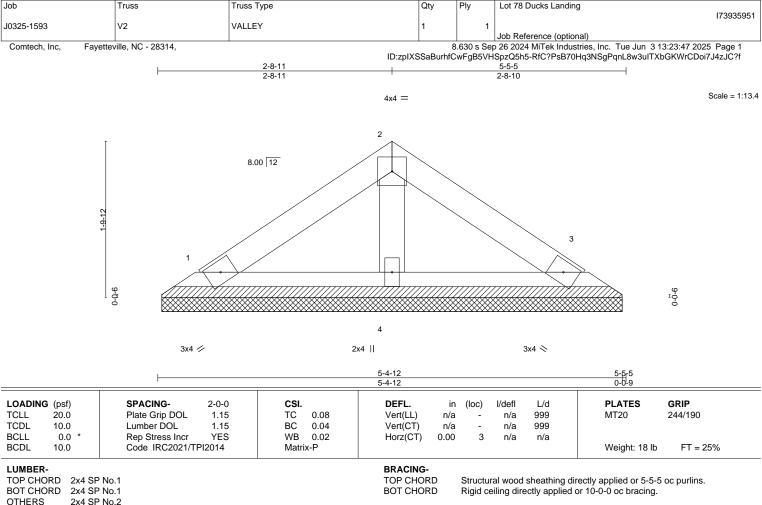


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2x4 SP No.2

REACTIONS. (size) 1=5-4-3, 3=5-4-3, 4=5-4-3

Max Horz 1=-36(LC 8)

Max Uplift 1=-15(LC 12), 3=-19(LC 13) Max Grav 1=97(LC 1), 3=97(LC 1), 4=163(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- 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 Lot 78 Ducks Landing 173935952 J0325-1593 VB1 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:48 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-2-12 1-2-12 1-2-12 Scale = 1:8.9 12.00 12 3 9-0-0 9-0-0 3x4 // 3x4 📏

Plate Off	fsets (X,Y)	[2:0-2-0,Edge]	000			201						
LOADIN	G (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)	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	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2021/T	PI2014	Matrix	(-P						Weight: 7 lb	FT = 25%

2-5-7

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-5-7 oc purlins.

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

REACTIONS. (size) 1=2-4-11, 3=2-4-11

Max Horz 1=-21(LC 8)

Max Uplift 1=-2(LC 12), 3=-2(LC 12) Max Grav 1=70(LC 1), 3=70(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

0-0-6 0-0-6

- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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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building design. Bracing indicated is to prevent bucking 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/TP11 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)



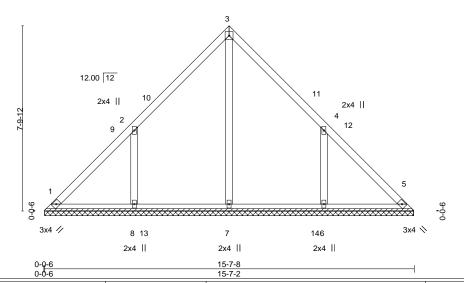
Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935953 J0325-1593 VC1 Valley Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:48 2025 Page 1 ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-9-12 7-9-12 7-9-12

> Scale = 1:48.6 4x4 =



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014	Matrix-S						Weight: 75 lb	FT = 25%

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 15-6-12.

Max Horz 1=-179(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-187(LC 12), 6=-187(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=408(LC 22), 8=514(LC 19), 6=513(LC 20)

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

WEBS 2-8=-317/346, 4-6=-317/346

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-9-12, Exterior(2R) 7-9-12 to 12-2-9, Interior(1) 12-2-9 to 15-3-5 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 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) 8=187, 6=187.

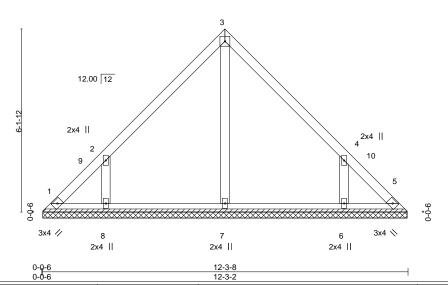




Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935954 J0325-1593 VC2 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:49 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12-3-8 6-1-12 6-1-12

> Scale = 1:38.7 4x4 =



LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/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 Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.08 Horz(CT) 0.00 5 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-S Weight: 56 lb FT = 25%

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 12-2-12.

Max Horz 1=-139(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-160(LC 12), 6=-160(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=339(LC 19), 6=339(LC 20)

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

WEBS 2-8=-297/386, 4-6=-297/386

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-1-12, Exterior(2R) 6-1-12 to 10-6-9, Interior(1) 10-6-9 to 11-11-5 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 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.
- 6) 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=160, 6=160,



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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)



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935955 J0325-1593 VC3 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:49 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-11-8 4-5-12 Scale = 1:28.9 4x4 = 2 12.00 12 9-0-0 9-0-0 3x4 / 3x4 N 2x4 || 0-<u>0-6</u> 0-0-6 8-11-8 8-11-2 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

0.00

n/a

n/a

n/a

3

999

999

n/a

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

MT20

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

Weight: 36 lb

244/190

FT = 25%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

0.0

10.0

REACTIONS. (size) 1=8-10-12, 3=8-10-12, 4=8-10-12

Max Horz 1=-99(LC 8)

Max Uplift 1=-36(LC 13), 3=-36(LC 13)

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

Max Grav 1=201(LC 1), 3=201(LC 1), 4=258(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

вс

WB

Matrix-P

0.40

0.13

0.05

- 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.

1.15

1.15

YES

- 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.
- 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 Lot 78 Ducks Landing 173935956 J0325-1593 VC4 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:50 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-9-12 2-9-12 Scale = 1:20.2 4x4 = 2 12.00 12 3 9-0-0 9-0-0 4 3x4 // 3x4 📏 2x4 || 0-0-6 0-0-6 5-7-8 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI 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 Lumber DOL 1.15 вс 0.05 Vert(CT) n/a n/a 999 WB 0.01 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2021/TPI2014 BCDL 10.0 Matrix-P Weight: 22 lb FT = 25% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 1=5-6-12, 3=5-6-12, 4=5-6-12

Max Horz 1=59(LC 9)

Max Uplift 1=-21(LC 13), 3=-21(LC 13)

Max Grav 1=120(LC 1), 3=120(LC 1), 4=154(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-7-8 oc purlins.

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



Job Truss Truss Type Qty Ply Lot 78 Ducks Landing 173935957 J0325-1593 VC5 Valley Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 13:23:50 2025 Page 1 Comtech, Inc. ID:zpIXSSaBurhfCwFgB5VHSpzQ5h5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-1-12 1-1-12 1-1-12 Scale = 1:8.5 12.00 12 0-D-6 9-0-0 3x4 // 3x4 📏 2-3-2 2-3-8 0-0-6 Plate Offsets (X,Y)--[2:0-2-0,Edge]

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

10.0

10.0

0.0

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

(loc)

3

n/a

n/a

0.00

I/defI

n/a

n/a

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-3-8 oc purlins.

PLATES

Weight: 7 lb

MT20

GRIP

244/190

FT = 25%

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

L/d

999

999

n/a

REACTIONS. (size) 1=2-2-12, 3=2-2-12

Max Horz 1=19(LC 9)

Max Uplift 1=-2(LC 12), 3=-2(LC 13) Max Grav 1=64(LC 1), 3=64(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2021/TPI2014

Lumber DOL

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

0.02

0.02

0.00

TC

BC

WB

Matrix-P

- 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.

2-0-0

1.15

1.15

YES

- 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.
- 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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Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

₹

connector plates. required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

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

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.