

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1222-6117

Wellco/Geszler-Hamlet Job/Harnett

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: I55697719 thru I55697738

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



December 13,2022

Sevier, Scott

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 Wellco/Geszler-Hamlet Job/Harnett 155697719 J1222-6117 Α1 COMMON Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:22 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-fQ33FEuV7whNOz?i_vPfJ3XLDxg0Prso4YNoAwy9h33 25-10-8 23-10-4 4-11-14 6-10-6 Scale = 1:57.4 5x5 =

8-6-6	4x8 / 1	8.00 12 2x4 \\ 2	14	3	15	2x4 // 4x6 \times 4 5	6 3x6 \ 6 7	<u>-6-8</u>
-	13		11 10	17	9		8 3x4 ≥	-0
			4x8 = 4x6 =		4x8 =		2x4	
	3x4	8-0-0		16-0-0		23-10-4	25-10-8	
		8-0-0	+	8-0-0	-	23-10-4 7-10-4	24 ₁ 0-0 0-1-12 1-10-8	
)))	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.19 BC 0.30	DEFL. Vert(LL) Vert(CT)	in (loc) -0.08 9-11 -0.12 9-11	l/defl L/d >999 360 >999 240	PLATES MT20	GRIP 244/190
) *)	Rep Stress Incr Code IRC2015/1	YES FPI2014	WB 0.21 Matrix-S	Horz(CT) Wind(LL)	0.01 8 0.02 9-11	n/a n/a >999 240	Weight: 204 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL TCDL

BCLL

BCDL

LOADING (psf) 20.0

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

10.0

0.0

10.0

1-12: 2x6 SP No.1

REACTIONS. (size) 12=0-3-8, 8=0-3-8

Max Horz 12=-221(LC 8)

Max Uplift 12=-41(LC 12), 8=-61(LC 13) Max Grav 12=965(LC 19), 8=1109(LC 1)

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

1-2=-1173/278, 2-3=-1055/332, 3-5=-1061/312, 5-6=-1185/258, 1-12=-902/234 TOP CHORD **BOT CHORD** 11-12=-153/276, 9-11=0/702

WFBS

2-11=-392/247, 3-11=-85/446, 3-9=-73/457, 5-9=-385/241, 6-8=-984/347,

1-11=-163/848, 6-9=-195/876

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-0-1, Interior(1) 5-0-1 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 25-10-8 zone; cantilever 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 12 and 61 lb uplift at



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

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

except end verticals.

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Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697720 J1222-6117 A2 HIP 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:23 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-7ccRTav7uEpE06avYcwusH4WJL_u88FxJC7LiMy9h32 18-10-4 14-0-0 25-10-8 5-1-12 4-10-4 4-0-0 4-10-4 7-0-4 Scale = 1:49.9 5x5 = 5x5 = 3 8.00 12 4x4 / 4x4 > 13 8-3-11 14 3x4 II 6 1-9-8 8-9-• \boxtimes \aleph 9 8 3x6 × 10 11 4x6 = 5x8 = 4x8 = 2x4 📏 25-10-8 1-10-8 Plate Offsets (X,Y)--[3:0-2-8,0-2-6], [4:0-2-8,0-2-6] **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.07 7-8 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.39 Vert(CT) -0.15 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.84 Horz(CT) 0.02 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) >999 240 Weight: 200 lb FT = 20%Matrix-S 0.01 8 LUMBER-BRACING-2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

TOP CHORD BOT CHORD 2x6 SP No.1 WEBS

2x4 SP No.2 *Except* 1-10: 2x6 SP No.1

BOT CHORD WEBS

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 5-8, 2-8

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=-188(LC 8)

Max Uplift 10=-34(LC 12), 7=-54(LC 13) Max Grav 10=951(LC 1), 7=1098(LC 1)

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

TOP CHORD 1-2=-345/56, 2-3=-901/295, 3-4=-783/295, 4-5=-905/291, 5-6=-346/81, 1-10=-279/88

BOT CHORD 8-10=-124/776, 7-8=-143/822, 6-7=-3/267

3-8=-28/261, 4-8=-44/275, 5-8=-290/205, 5-7=-1059/523, 2-10=-801/291 **WEBS**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-11-3, Interior(1) 4-11-3 to 10-0-0, Exterior(2) 10-0-0 to 20-2-11, Interior(1) 20-2-11 to 25-10-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 34 lb uplift at joint 10 and 54 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

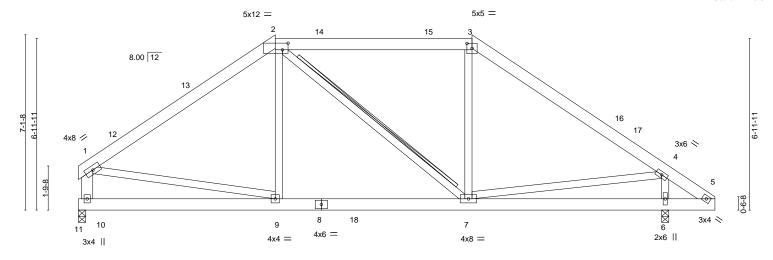
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Scale = 1:46.8



	0-0-0		0-0-0	7-10-4	0-1-12 1-10-6
Plate Offsets (X,Y)	[2:0-2-12,0-3-4], [3:0-2-8,0-2-6]				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.30	DEFL. in (loc) I/defl Vert(LL) -0.04 7-9 >999	L/d 360	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.20 WB 0.15	Vert(CT) -0.04 7-9 >999 Vert(CT) -0.06 7-9 >999 Horz(CT) 0.01 6 n/a	240 n/a	W1120 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 7-9 >999	240	Weight: 189 lb FT = 20%

16-0-0

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except* 1-10: 2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 2-7 T-Brace:

23-10-4

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

REACTIONS. (size) 10=0-3-8, 6=0-3-8

Max Horz 10=-156(LC 8)

Max Uplift 10=-23(LC 12), 6=-45(LC 13) Max Grav 10=940(LC 1), 6=1109(LC 1)

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

TOP CHORD 1-2=-1053/288, 2-3=-776/320, 3-4=-1067/285, 1-10=-851/271

BOT CHORD 9-10=-124/295, 7-9=-56/805

WEBS 4-7=-69/609, 1-9=-44/631, 4-6=-953/411

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 16-0-0, Exterior(2) 16-0-0 to 22-2-11, Interior(1) 22-2-11 to 25-10-8 zone; cantilever right exposed ;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.
- * 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 23 lb uplift at joint 10 and 45 lb uplift at joint 6.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



24₁0-0 25-10-8

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

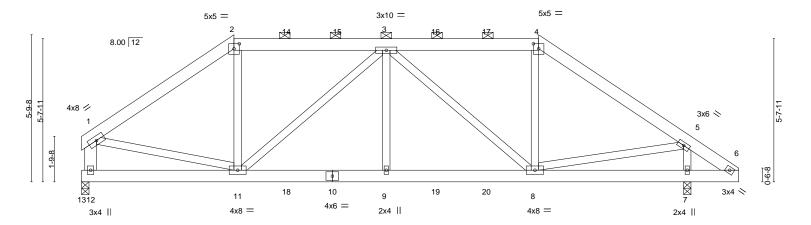
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697722 J1222-6117 A4GDR HIP GIRDER 2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:27 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-0OsylyyeySJfVkugnS?q07EDoyQD47gXEq5Zr7y9h3_ 23-10-4 25-10-8 12-0-0 6-0-0 6-0-0 6-0-0 5-10-4 2-0-4

Scale = 1:45.4



	-	6-0-0	+	6-0-0		+	6-0-0		+			0-1-12 1-10-8
Plate Offs	sets (X,Y)	[2:0-2-8,0-2-6], [4:0-2-8,0-2-	-6]									
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	0.14	Vert(LL)	-0.02	` ģ	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.05	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	014	Matrix	c-S	Wind(LL)	0.03	9	>999	240	Weight: 384 I	b FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

1-12: 2x6 SP No.1

REACTIONS. (size) 12=0-3-8, 7=0-3-8 Max Horz 12=-124(LC 4)

Max Uplift 12=-501(LC 8), 7=-514(LC 9) Max Grav 12=1591(LC 33), 7=1744(LC 1)

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

1-2=-1890/666, 2-3=-1547/605, 3-4=-1565/616, 4-5=-1916/681, 1-12=-1516/526 TOP CHORD

BOT CHORD 9-11=-734/2118. 8-9=-734/2118

WEBS 2-11=-164/573, 3-11=-779/292, 3-9=0/429, 3-8=-759/278, 4-8=-167/590, 5-8=-539/1470,

1-11=-532/1442, 5-7=-1573/548

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: 2x6 - 2 rows staggered at 0-9-0 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever right exposed; 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.
- * 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 501 lb uplift at joint 12 and 514 lb uplift at joint 7.
- 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) 130 lb down and 119 lb up at 6-0-0, 134 lb down and 116 lb up at 8-0-12, 134 lb down and 116 lb up at 10-0-12, 134 lb down and 116 lb up at 12-0-0, 134 lb down and 116 lb up at 13-11-4, and 134 lb down and 116 lb up at 15-11-4, and 130 lb down and 119 lb up at 18-0-0 on top chord, and 292 lb down and 228 lb up at 6-0-0, 60 lb down at 8-0-12, 60 lb down at 10-0-12, 60 lb down at 12-0-0, 60 lb down at 13-11-4, and 60 lb down at 15-11-4, and 292 lb down and 228 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.

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

December 13,2022

COARIGASE(S)geStandard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697722 J1222-6117 HIP GIRDER 2 A4GDR

Fayetteville, NC - 28314, Comtech, Inc,

| **Z** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:27 2022 Page 2 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-0OsylyyeySJfVkugnS?q07EDoyQD47gXEq5Zr7y9h3_

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-13=-20

Concentrated Loads (lb)

Vert: 2=-88(F) 4=-88(F) 10=-35(F) 11=-245(F) 3=-88(F) 9=-35(F) 8=-245(F) 14=-88(F) 15=-88(F) 16=-88(F) 17=-88(F) 18=-35(F) 19=-35(F) 20=-35(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697723 J1222-6117 **B1** COMMON Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:28 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-UaQKWIyGjmSW6uSsLAW3ZKnP0MmipZJhSUq6May9h2z 20-8-14 27-9-0 7-0-2 6-10-6 6-10-6 7-0-2 Scale = 1:57.3 5x5 = 8.00 12 4x6 / 15 4x6 > 4x4 / 4x4 <> 16 9-9-[9-9 • 12 \boxtimes 11 17 10 -8 2x4 // 3x4 = 4x6 = 3x4 = 2x4 🚿 17-9-15 25-8-12 27-9-0 7-10-13 7-10-13 7-10-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/defl 20.0 1.15 TC Vert(LL) -0.04 360 244/190 **TCLL** Plate Grip DOL 0.11 9-11 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.06 9-11 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.01 8 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 9-11 >999 240 Weight: 413 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS.

(size) 12=0-3-8, 8=0-3-8 Max Horz 12=-223(LC 8)

Max Uplift 12=-62(LC 12), 8=-62(LC 13) Max Grav 12=1110(LC 1), 8=1110(LC 1)

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

TOP CHORD 2-4=-1121/333, 4-6=-1120/333

BOT CHORD 11-12=-106/1055, 9-11=0/730, 8-9=-99/900

WEBS 4-9=-95/500, 6-9=-299/228, 6-8=-1267/394, 4-11=-95/502, 2-11=-299/228,

2-12=-1268/394

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: 2x6 - 2 rows staggered at 0-9-0 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=6.0psf; h=15ft; 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 13-10-8, Exterior(2) 13-10-8 to 18-3-5, Interior(1) 18-3-5 to 27-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 62 lb uplift at joint 12 and 62 lb uplift at joint 8.



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

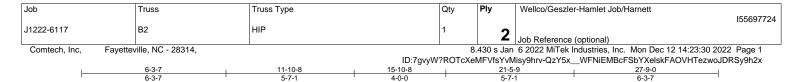
Rigid ceiling directly applied or 6-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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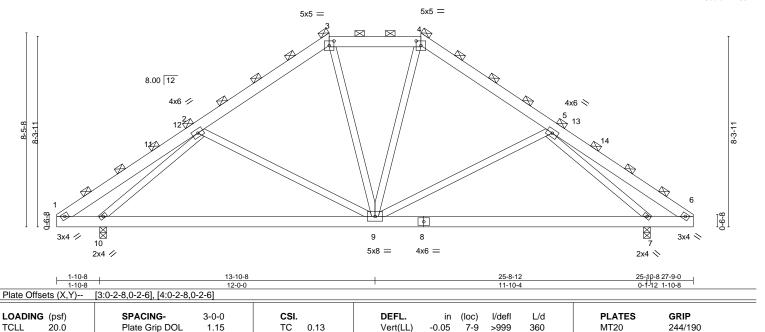
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





4-0-0

Scale = 1:50.2



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.11

0.01

0.01

7-9

9 >999

>999

n/a

2-0-0 oc purlins (6-0-0 max.)

240

n/a

240

(Switched from sheeted: Spacing > 2-8-0).

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

Weight: 412 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEBS 2x4 SP No.2

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-284(LC 8)

Max Uplift 10=-83(LC 12), 7=-83(LC 13) Max Grav 10=1665(LC 1), 7=1665(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-507/102, 2-3=-1414/431, 3-4=-1208/436, 4-5=-1414/431, 5-6=-507/102

1.15

NO

ВС

WB

Matrix-S

0.32

0.22

BOT CHORD 1-10=0/387, 9-10=-233/1280, 7-9=-221/1244, 6-7=0/387

WFBS 3-9=-35/404, 4-9=-35/404, 5-9=-398/294, 5-7=-1633/799, 2-9=-398/294,

2-10=-1633/799

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: 2x6 - 2 rows staggered at 0-9-0 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=6.0psf; h=15ft; 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 11-10-8, Exterior(2) 11-10-8 to 22-1-3, Interior(1) 22-1-3 to 27-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- * 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 83 lb uplift at joint 10 and 83 lb uplift at joint 7.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 13,2022

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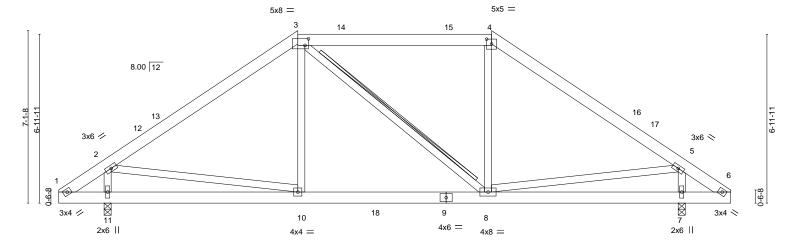
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697725 J1222-6117 **B**3 HIP Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:31 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-u95T8J?80hq5zLBR0l3mBzPsCZmd0xz79S3nzvy9h2w 25-8-12 7-10-4 27-9-0 2-0-4 8-0-0

Scale: 1/4"=1



1-10-8 2-0 ₇ 4 1-10-8 0-1-1			17-10-8 8-0-0	-	25-8-1 7-10-		10-8 27-9-0 -12 1-10-8
Plate Offsets (X,Y)	[3:0-1-12,0-3-4], [4:0-2-8,0-2-6]						
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 IRC2015/TPI2014	CSI. TC 0.30 BC 0.20 WB 0.15 Matrix-S	Vert(LL) -0.04 & Vert(CT) -0.06 & Horz(CT) 0.01		L/d 360 240 n/a 240	PLATES MT20 Weight: 197 lb	GRIP 244/190 FT = 20%

LUMBER-

2x6 SP No.1 TOP CHORD 2x6 SP No.1 **BOT CHORD** WEBS 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.): 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SPF No.2 - 3-8 T-Brace:

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

REACTIONS. (size) 11=0-3-8, 7=0-3-8

Max Horz 11=157(LC 9)

Max Uplift 11=-46(LC 12), 7=-46(LC 13) Max Grav 11=1110(LC 1), 7=1110(LC 1)

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

TOP CHORD 2-3=-1069/279, 3-4=-777/313, 4-5=-1069/278

BOT CHORD 10-11=-162/336, 8-10=-57/810

WEBS 2-10=-65/647, 5-8=-70/611, 2-11=-953/409, 5-7=-954/408

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=6.0psf; h=15ft; 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 9-10-8, Exterior(2) 9-10-8 to 16-1-3, Interior(1) 16-1-3 to 17-10-8, Exterior(2) 17-10-8 to 24-1-3, Interior(1) 24-1-3 to 27-9-0 zone; cantilever left and right exposed ;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 46 lb uplift at joint 11 and 46 lb uplift at joint 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 13,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

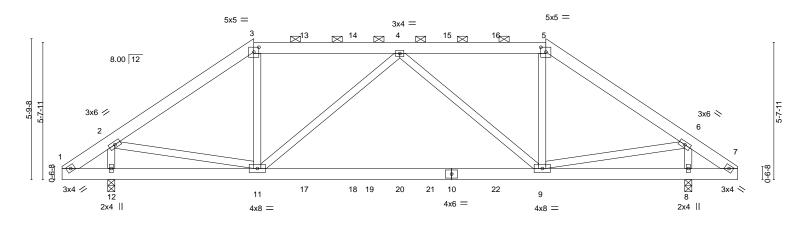
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697726 J1222-6117 B4GDR HIP GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:34 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-lkncmL11lcCgqpw0hQdTpb1PynmgDIAZrQHRaDy9h2t 7-10-8 5-10-4 13-10-8 6-0-0 27-9-0 2-0-4

Scale = 1:47.3



1-10-8 2-0-4 1-10-8 0-1-12	7-10-8 5-10-4	13-10-8 6-0-0	19-10-8 6-0-0	25-8-12 5-10-4 25-10-8 27-9-0 0-1-12 1-10-8
	3:0-2-8,0-2-6], [5:0-2-8,0-2-6]	0-0-0	0-0-0	3-10-4 0-1-12 1-10-0
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 0.14	Vert(LL) -0.09 9-11 >999	360 MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.19 9-11 >999	240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.01 8 n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.03 9-11 >999	240 Weight: 387 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 **WEBS**

REACTIONS. (size) 12=0-3-8, 8=0-3-8 Max Horz 12=-126(LC 23)

Max Uplift 12=-520(LC 8), 8=-520(LC 9) Max Grav 12=1777(LC 33), 8=1778(LC 34)

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

TOP CHORD 2-3=-2101/657, 3-4=-1720/596, 4-5=-1721/595, 5-6=-2102/656

BOT CHORD 9-11=-789/2133

WFBS 2-11=-481/1717, 3-11=-152/699, 4-11=-596/379, 4-9=-595/380, 5-9=-151/699,

6-9=-485/1720, 2-12=-1809/495, 6-8=-1809/494

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: 2x6 - 2 rows staggered at 0-9-0 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; 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 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 12 and 520 lb uplift at joint 8.
- 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) 130 lb down and 119 lb up at 7-10-8, 134 lb down and 116 lb up at 9-11-4, 134 lb down and 116 lb up at 11-11-4, 134 lb down and 116 lb up at 13-10-8, 134 lb down and 116 lb up at 15-9-12, and 134 lb down and 116 lb up at 17-9-12, and 130 lb down and 119 lb up at 19-10-8 on top chord, and 292 lb down and 228 lb up at 7-10-8, 60 lb down at 9-11-4, 60 lb down at 11-11-4, 60 lb down at 13-10-8, 60 lb down at 15-9-12, and 60 lb down at 17-9-12, and 292 lb down and 228 lb up at 19-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied or 6-0-0 oc purlins, except

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

2-0-0 oc purlins (6-0-0 max.): 3-5.

10-0-0 oc bracing: 9-11.

December 13,2022

LOAD CASE(S) Standard

Continued on page 2

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Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697726 J1222-6117 B4GDR HIP GIRDER

Fayetteville, NC - 28314, Comtech, Inc,

Z | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:34 2022 Page 2 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-lkncmL11lcCgqpw0hQdTpb1PynmgDIAZrQHRaDy9h2t

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 3=-88(B) 5=-88(B) 10=-35(B) 11=-245(B) 4=-88(B) 9=-245(B) 13=-88(B) 14=-88(B) 15=-88(B) 16=-88(B) 17=-35(B) 18=-35(B) 20=-35(B) 22=-35(B)

Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697727 J1222-6117 CJ11 DIAGONAL HIP GIRDER 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:35 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-nwL__h2f3wKXSyVCF88iLpZZGB9oylzj441_6gy9h2s 11-0-2 2-9-9 8-2-9 Scale = 1:34.0 3x4 || 3 5.66 12 10

1	2-7-1	2 ₁ 9 ₁ 9	11-0-2	ï
	2-7-1	0-2-8	8-2-9	1

TOP CHORD

BOT CHORD

11

12

except end verticals.

6 5

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

Rigid ceiling directly applied or 6-0-0 oc bracing.

4x6 =

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.09	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	-0.02	6-7	>999	240	Weight: 75 lb	FT = 20%

LUMBER-BRACING-

3x4 =

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

REACTIONS. (size) 6=Mechanical, 7=0-4-15 Max Horz 7=170(LC 26)

Max Uplift 6=-221(LC 8), 7=-206(LC 4) Max Grav 6=250(LC 32), 7=510(LC 1)

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

TOP CHORD 1-2=-167/338

BOT CHORD 1-7=-280/173, 6-7=-341/91 WEBS 2-6=-80/339, 2-7=-471/162

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60

3x4 /

2x4 ||

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 221 lb uplift at joint 6 and 206 lb uplift at joint 7.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb down and 4 lb up at 0-5-8, 67 lb down and 43 lb up at 2-7-6, 67 lb down and 43 lb up at 2-7-6, 47 lb down and 111 lb up at 5-5-5, 47 lb down and 111 lb up at 5-5-5, and 100 lb down and 86 lb up at 8-3-4, and 100 lb down and 86 lb up at 8-3-4 on top chord, and 1 lb down at 2-7-6, 1 lb down at 2-7-6, 81 lb up at 5-5-5, 81 lb up at 5-5-5, and 25 lb down and 20 lb up at 8-3-4, and 25 lb down and 20 lb up at 8-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-40 9=84(F=42, B=42) 10=-1(F=-0, B=-0) 11=97(F=48, B=48) 12=7(F=4, B=4)





Job	Truss	Truss Type	Qty	Ply	Wellco/Geszler-Hamlet Job/Harnett
14000 0447	100	LACK OPEN	40		I55697728
J1222-6117	J02	JACK-OPEN	12	1	11.5 (/ / / / / / / / / / / / / / / / / /
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

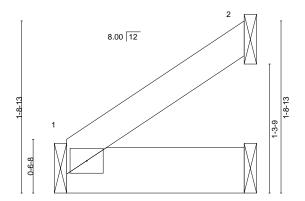
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:36 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-F6vMB13HqDSN464Pprfxu06n1aWohDcslkmYf6y9h2r

Structural wood sheathing directly applied or 1-9-7 oc purlins.

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

1-9-7

Scale = 1:11.6



3

1-9-7 1-9-7

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.01 WB 0.00	DEFL. ii Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00) 1) 1	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00) 1	****	240	Weight: 8 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 BOT CHORD

2x6 SP No.1

1=Mechanical, 2=Mechanical, 3=Mechanical (size)

Max Horz 3=43(LC 12)

Max Uplift 2=-34(LC 12)

Max Grav 1=70(LC 1), 2=59(LC 19), 3=35(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever 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 34 lb uplift at joint 2.



December 13,2022



Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697729 J1222-6117 J04 JACK-OPEN 12

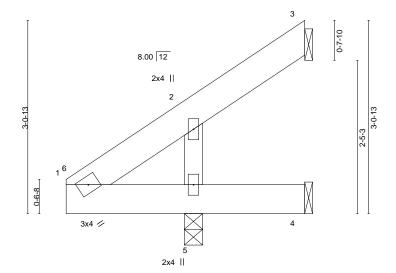
Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:37 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-jJTkPN3vbXaEhGebNZAAQEfxx_rlQgP?XOW5BYy9h2q

Structural wood sheathing directly applied or 3-9-7 oc purlins.

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

Scale = 1:18.3



			1-10	7-0	0-1-12	1-9-3					
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.	.10	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.	.09	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr NC) WB 0.	.03	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P)	Wind(LL)	-0.00	5	>999	240	Weight: 21 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-4

1-10-8

LUMBER-

REACTIONS.

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

2x4 SP No.2

3=Mechanical, 4=Mechanical, 5=0-3-8 (size)

Max Horz 5=82(LC 12)

Max Uplift 3=-39(LC 12), 4=-52(LC 1)

Max Grav 3=10(LC 10), 4=7(LC 8), 5=405(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber 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 39 lb uplift at joint 3 and 52 lb uplift at joint 4.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb down and 14 lb up at 0-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 1-4=-20

Concentrated Loads (lb) Vert: 6=-40



December 13,2022

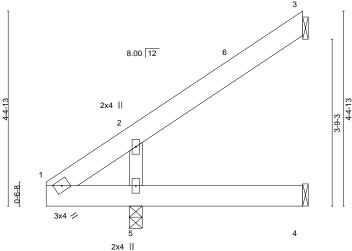
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697730 J1222-6117 J06 JACK-OPEN 12 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:38 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-BV06cj4XMri5JQDnwGhPzRB6?OCU97Y9m2Fej?y9h2p 5-9-7 Scale = 1:26.0



			'	1-10-8	0-1-12	3-9-3	3		<u>'</u>				
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	0.08	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-5	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.01	3	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P						Weight: 31 lb	FT = 20%	

5-9-7

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS REACTIONS.

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

> (size) 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=126(LC 12)

Max Uplift 3=-72(LC 12), 4=-5(LC 12) Max Grav 3=103(LC 19), 4=53(LC 3), 5=354(LC 1)

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

WEBS 2-5=-250/201

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 5-8-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

1-10-8

21014

- 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 3 and 5 lb uplift at joint 4.



Structural wood sheathing directly applied or 5-9-7 oc purlins.

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



Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697731 J1222-6117 J08 JACK-OPEN 21 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

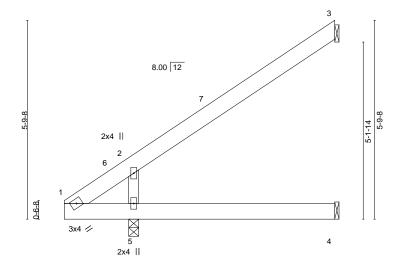
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:39 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-fhaVq25978qyxaozU_DeWfkG4oXouadI_i?CFRy9h2o

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

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

7-10-8

Scale = 1:33.5



	1-10-8 1-10-8	2-0 ₋ 4 0-1-12	7-10-8 5-10-4	

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.03	3	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.02	4-5	>999	240	Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

3=Mechanical, 4=Mechanical, 5=0-3-8 (size)

Max Horz 5=171(LC 12) Max Uplift 3=-103(LC 12)

Max Grav 3=171(LC 19), 4=100(LC 3), 5=422(LC 1)

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

TOP CHORD 1-2=-288/244 **BOT CHORD** 1-5=-206/251 WEBS 2-5=-341/264

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 7-9-12 zone; cantilever 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 103 lb uplift at joint 3.





Job Truss Truss Type Qty Ply Wellco/Geszler-Hamlet Job/Harnett 155697732 J1222-6117 LG1 **GABLE** 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:41 2022 Page 1

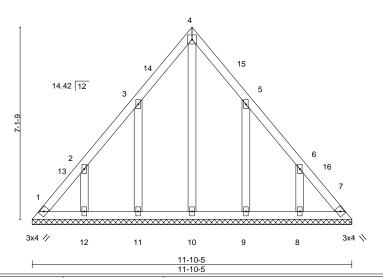
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5-11-3 5-11-3

> Scale = 1:42.7 4x4 =

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

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



LOADIN	\(\(\)	SPACING-	2-0-0	CSI.	0.06	DEFL. Vert(LL)	in	(loc)	l/defl	L/d	PLATES MT20	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	BC	0.06	Vert(CT)	n/a n/a		n/a n/a	999 999	IVI I ZU	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	, ,					Weight: 71 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 11-10-5 Max Horz 1=-170(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-115(LC 12), 12=-112(LC 12), 9=-114(LC 13),

8=-113(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-12 to 4-8-9, Interior(1) 4-8-9 to 5-11-3, Exterior(2) 5-11-3 to 10-3-15, Interior(1) 10-3-15 to 11-6-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) 1, 7 except (jt=lb) 11=115, 12=112, 9=114, 8=113.

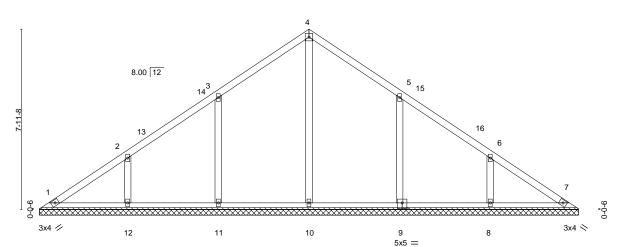




Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697733 J1222-6117 VB1 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:42 2022 Page 1

ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-3GGdS472Q3CXo1XY96mL7HMnt?WK5vNkhfDssmy9h2l 11-11-4

Scale = 1:50.8 4x4 =



23-10-7

Plate Off	Plate Offsets (X,Y) [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [9:0-2-8,0-3-0]											
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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 107 lb	FT = 20%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 23-9-5.

Max Horz 1=183(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 8 except 11=-102(LC 12), 9=-104(LC 13)

11-11-3

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=459(LC 22), 11=446(LC 19), 12=341(LC 19),

9=455(LC 20), 8=338(LC 20)

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

3-11=-308/203, 2-12=-293/195, 5-9=-313/206, 6-8=-293/195

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 11-11-3, Exterior(2) 11-11-3 to 16-4-0, Interior(1) 16-4-0 to 23-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 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 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, 12, 8 except (jt=lb) 11=102, 9=104.
- 7) Non Standard bearing condition. Review required.



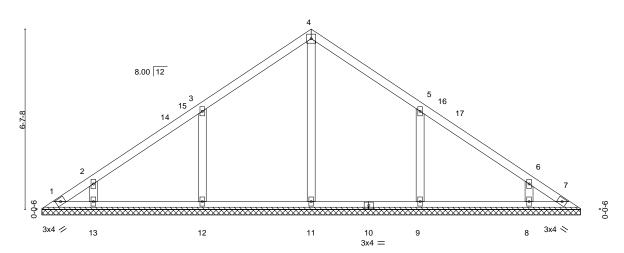
December 13,2022



Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697734 J1222-6117 VB2 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:44 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-0fOOtm9lyhTF1LhxHXopCiR7EpDwZql18zizxey9h2j 19-10-7 9-11-4

> Scale = 1:42.3 4x4 =



19-10-7 [5:0-0-0.0-0-0], [6:0-0-0.0-0-0]

Plate Of	Plate Offsets (X,Y) [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]											
LOADIN	10 (1)	CD4 CINC	0.00	001		DEEL		(1)	1/-1-41	1 /-1	DI ATEO	ODID
LOADIN	G (psr)	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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 84 lb	FT = 20%

LUMBER-BRACING-

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

REACTIONS. All bearings 19-9-5.

Max Horz 1=-151(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-106(LC 12), 9=-105(LC 13)

9-11-3

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=444(LC 19), 12=463(LC 19), 13=261(LC 19),

9=462(LC 20), 8=261(LC 20)

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

WEBS 3-12=-318/210, 5-9=-318/209

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 9-11-3, Exterior(2) 9-11-3 to 14-4-0, Interior(1) 14-4-0 to 19-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 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 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, 7, 13, 8 except (jt=lb) 12=106, 9=105.
- 7) Non Standard bearing condition. Review required.





Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697735 J1222-6117 VB3 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:45 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-Urym46Awj_b6fVG7rEK2lw_H3DanlHhBNdSWT5y9h2i 7-11-3 7-11-3 Scale = 1:34.0 4x4 = 3 8.00 12 11 2x4 || 2x4 || 2 12 q 3x4 / 3x4 > 8 2x4 || 2x4 || 2x4 | 0-0-9 0-0-9 15-10-7 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 999 244/190 n/a n/a MT20 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 0.07 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 63 lb Matrix-S LUMBER-**BRACING-**2x4 SP No.1 TOP CHORD 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. All bearings 15-9-5. Max Horz 1=-119(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-107(LC 12), 6=-106(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=376(LC 19), 6=376(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-316/209, 4-6=-316/209

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-11-3, Exterior(2) 7-11-3 to 12-4-0, Interior(1) 12-4-0 to 15-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 1 except (jt=lb) 8=107, 6=106
- 6) Non Standard bearing condition. Review required.





Job Truss Truss Type Qty Wellco/Geszler-Hamlet Job/Harnett 155697736 J1222-6117 VALLEY VB4 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 12 14:23:46 2022 Page 1 ID:7gvyW?ROTcXeMFVfsYvMisy9hrv-y2V8ISAYTIjzGfrKOyrHI7XTBcwv1IQKbHB3?Xy9h2h 11-10-7 5-11-3 5-11-4 Scale = 1:25.5 4x4 = 3 10 8.00 12 2x4 || 4^{2x4} || 12 7 8 6 3x4 // 3x4 < 2x4 || 2x4 || 2x4 || 11-10-7 0-0-9 0-0-9 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.04 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 44 lb Matrix-S LUMBER-**BRACING-**

2x4 SP No.1 TOP CHORD BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 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 11-9-5.

(lb) -Max Horz 1=87(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=315(LC 19), 6=315(LC 20)

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

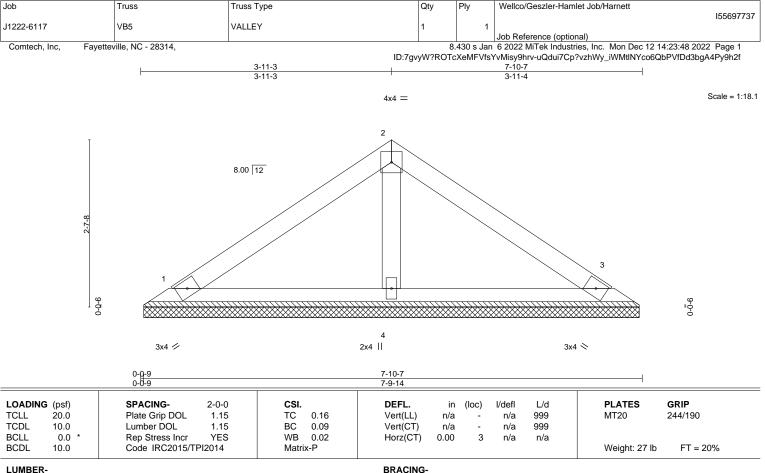
WEBS 2-8=-282/207, 4-6=-282/207

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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-11-3, Exterior(2) 5-11-3 to 10-4-0, Interior(1) 10-4-0 to 11-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 1, 5, 8, 6.
- 6) Non Standard bearing condition. Review required.







TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. 1=7-9-5, 3=7-9-5, 4=7-9-5 (size) Max Horz 1=55(LC 11)

Max Uplift 1=-24(LC 12), 3=-29(LC 13)

Max Grav 1=150(LC 1), 3=150(LC 1), 4=251(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=6.0psf; h=15ft; 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) 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) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

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

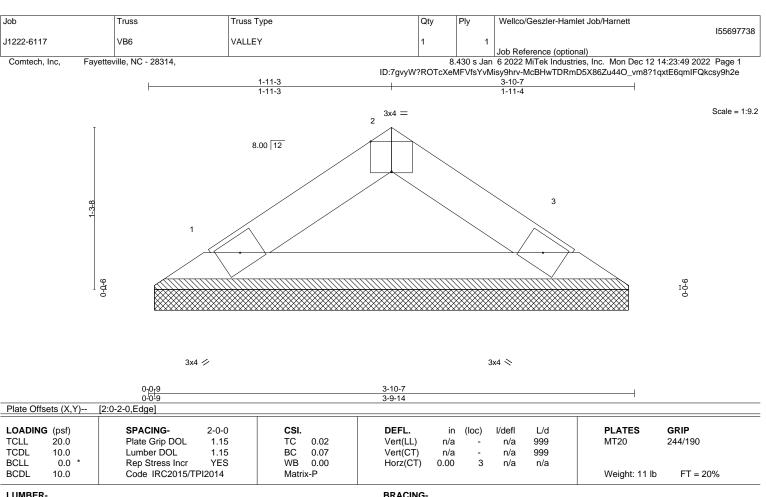


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-10-7 oc purlins.

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

REACTIONS.

(size) 1=3-9-5, 3=3-9-5 Max Horz 1=-23(LC 8) Max Uplift 1=-6(LC 12), 3=-6(LC 13)

Max Grav 1=115(LC 1), 3=115(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=6.0psf; h=15ft; 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) 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) 1, 3.
- 6) Non Standard bearing condition. Review required.





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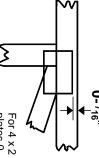


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

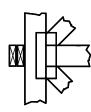
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



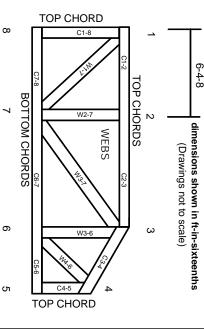
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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 after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.