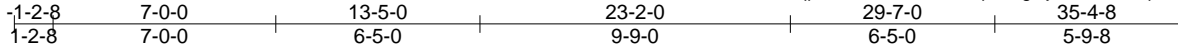




Job J0522-2459	Truss A1A	Truss Type Piggyback Base	Qty 5	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 12:59:34 2022 Page 1  
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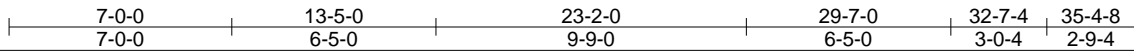
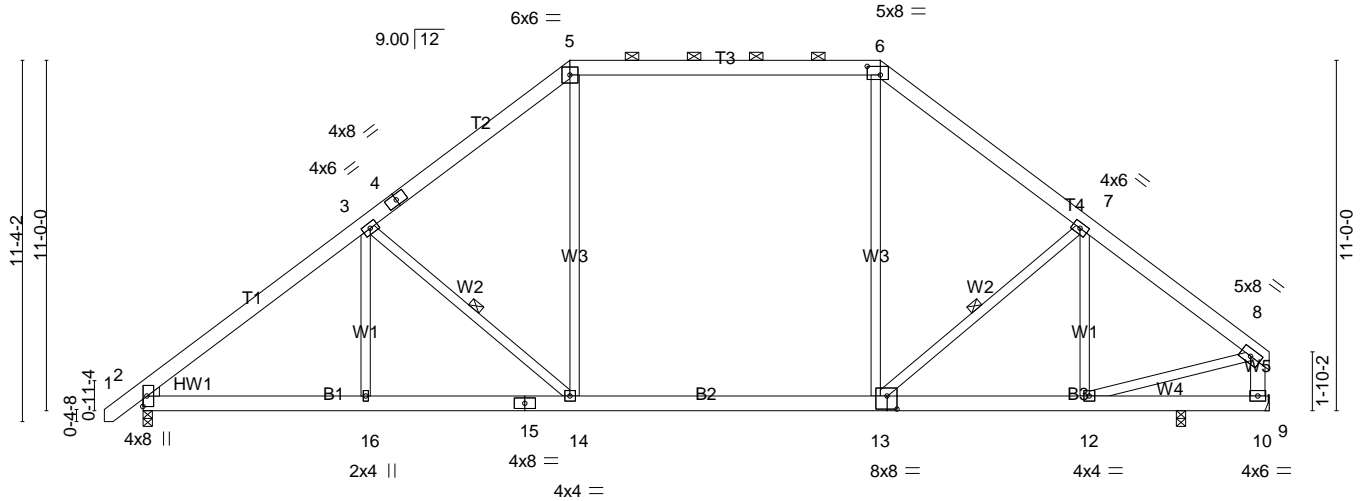


Plate Offsets (X,Y)-- [6:0-5-0,0-3-4], [13:0-3-12,0-5-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.26	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.36	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.23	14-16	>999	240		
							Weight: 266 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W5: 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-9 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12,10-11.  
 WEBS 1 Row at midpt 3-14, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-14), 10=Mechanical, 11=0-3-8 (min. 0-1-8)  
 Max Horz 2=279(LC 9)  
 Max Uplift 2=-80(LC 12), 10=-157(LC 9), 11=-314(LC 8)  
 Max Grav 2=1600(LC 19), 10=1559(LC 19), 11=325(LC 24)

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

TOP CHORD 2-3=-2126/449, 3-5=-1682/480, 5-6=-1266/463, 6-7=-1654/490, 7-8=-1599/405, 8-10=-1348/357  
 BOT CHORD 2-16=-332/1726, 14-16=-332/1726, 13-14=-143/1304, 12-13=-258/1233  
 WEBS 3-16=0/300, 3-14=-576/251, 5-14=-34/620, 6-13=-24/548, 7-12=-399/137, 8-12=-174/1102

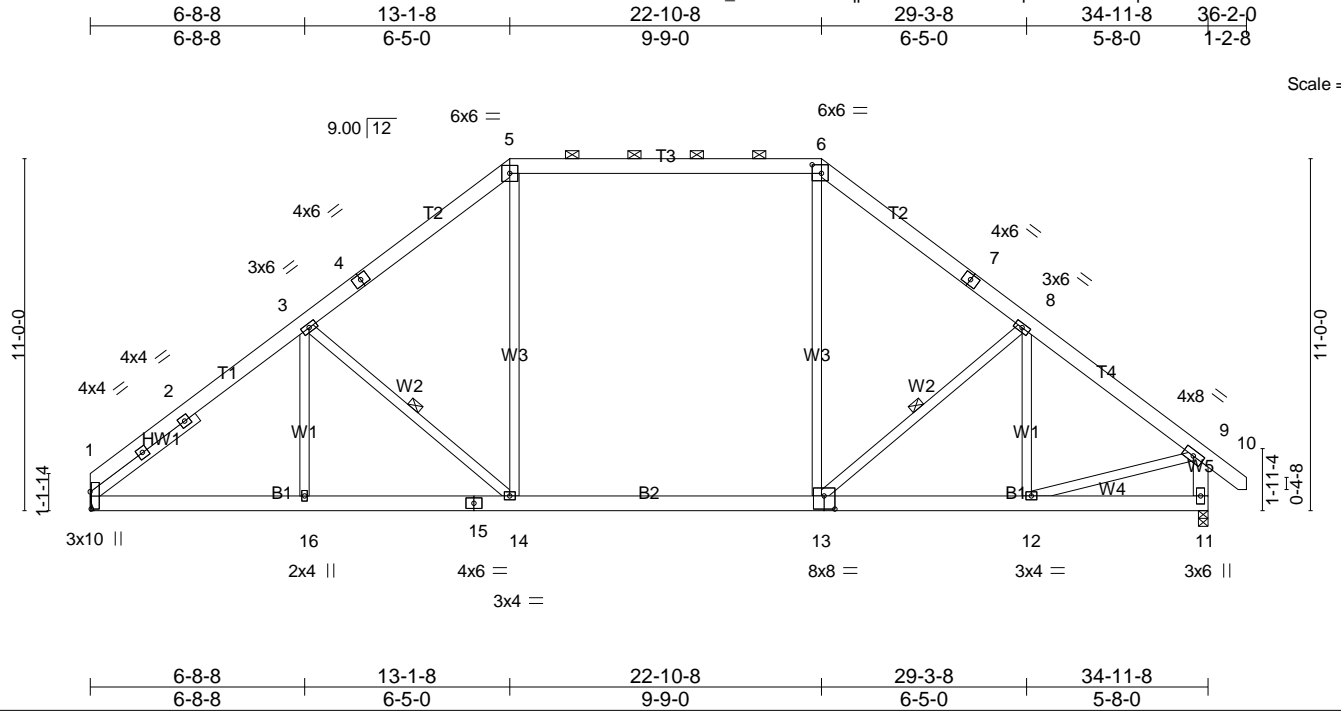
**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 19-7-11, Interior(1) 19-7-11 to 23-2-0, Exterior(2) 23-2-0 to 29-7-0, Interior(1) 29-7-0 to 35-0-4 zone; end vertical left and right exposed; porch 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2, 157 lb uplift at joint 10 and 314 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss A1B	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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Scale = 1:72.1

Plate Offsets (X,Y)-- [1:0-6-8,0-0-7], [6:0-3-8,0-3-4], [13:0-4-0,0-5-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL)	-0.28	14-16	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.82	Vert(CT)	-0.38	14-16	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Horz(CT)	0.04	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.27	14-16	>999		
	Code IRC2015/TPI2014						Weight: 270 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W5: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.2 - 4-2-2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-14, 8-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

(size) 1=Mechanical, 11=0-3-8 (min. 0-1-13)  
 Max Horz 1=281(LC 11)  
 Max Uplift 1=-50(LC 12), 11=-59(LC 13)  
 Max Grav 1=1509(LC 19), 11=1519(LC 2)

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

TOP CHORD 1-3=-2061/442, 3-5=-1656/488, 5-6=-1258/458, 6-8=-1644/475, 8-9=-1587/388, 9-11=-1437/404  
 BOT CHORD 1-16=-257/1662, 14-16=-257/1662, 13-14=-74/1281, 12-13=-164/1198  
 WEBS 3-16=-0/274, 3-14=-513/242, 5-14=-34/571, 6-13=-12/517, 8-13=-281/242, 8-12=-382/131, 9-12=-152/1111

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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 13-1-8, Exterior(2) 13-1-8 to 19-4-3, Interior(1) 19-4-3 to 22-10-8, Exterior(2) 22-10-8 to 29-3-8, Interior(1) 29-3-8 to 36-0-7 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 59 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job J0522-2459	Truss A1C	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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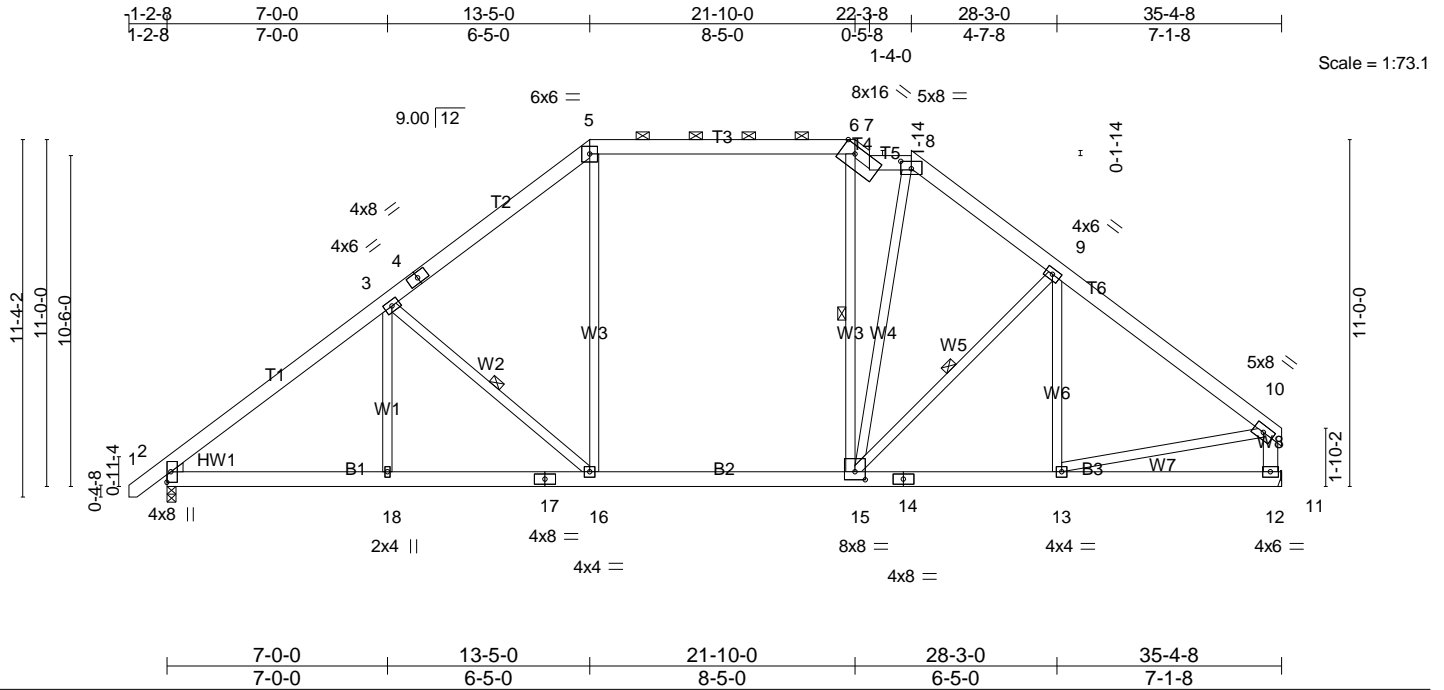


Plate Offsets (X,Y)-- [6:0-5-0,0-2-14], [8:0-4-0,0-2-12], [15:0-4-0,0-3-0]
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LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.19	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.23	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.04	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17	13-15	>999	240		
							Weight: 286 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W8: 2x6 SP No.1

WEDGE  
Left: 2x4 SP No.2

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-14), 12=Mechanical  
Max Horz 2=280(LC 9)  
Max Uplift 2=-68(LC 12), 12=-35(LC 13)  
Max Grav 2=1595(LC 19), 12=1516(LC 2)

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

TOP CHORD 2-3=-2114/419, 3-5=-1713/475, 5-6=-1297/451, 6-7=-1087/351, 7-8=-1291/434,  
8-9=-1580/468, 9-10=-1746/384, 10-12=-1427/348  
BOT CHORD 2-18=-298/1701, 16-18=-298/1701, 15-16=-131/1312, 13-15=-215/1316  
WEBS 3-18=0/277, 3-16=-551/221, 5-16=-54/633, 6-15=-265/233, 10-13=-145/1182,  
9-15=-323/177, 8-15=-147/556

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 22-3-8, Interior(1) 22-3-8 to 23-7-8, Exterior(2) 23-7-8 to 28-3-0, Interior(1) 28-3-0 to 35-0-4 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2 and 35 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job J0522-2459	Truss A2-2P	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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-1-2-8	7-0-0	13-5-0	23-2-0	25-3-5	31-4-9	37-5-12	39-9-8
1-2-8	7-0-0	6-5-0	9-9-0	2-1-5	6-1-3	6-1-3	2-3-12

Scale = 1:75.8

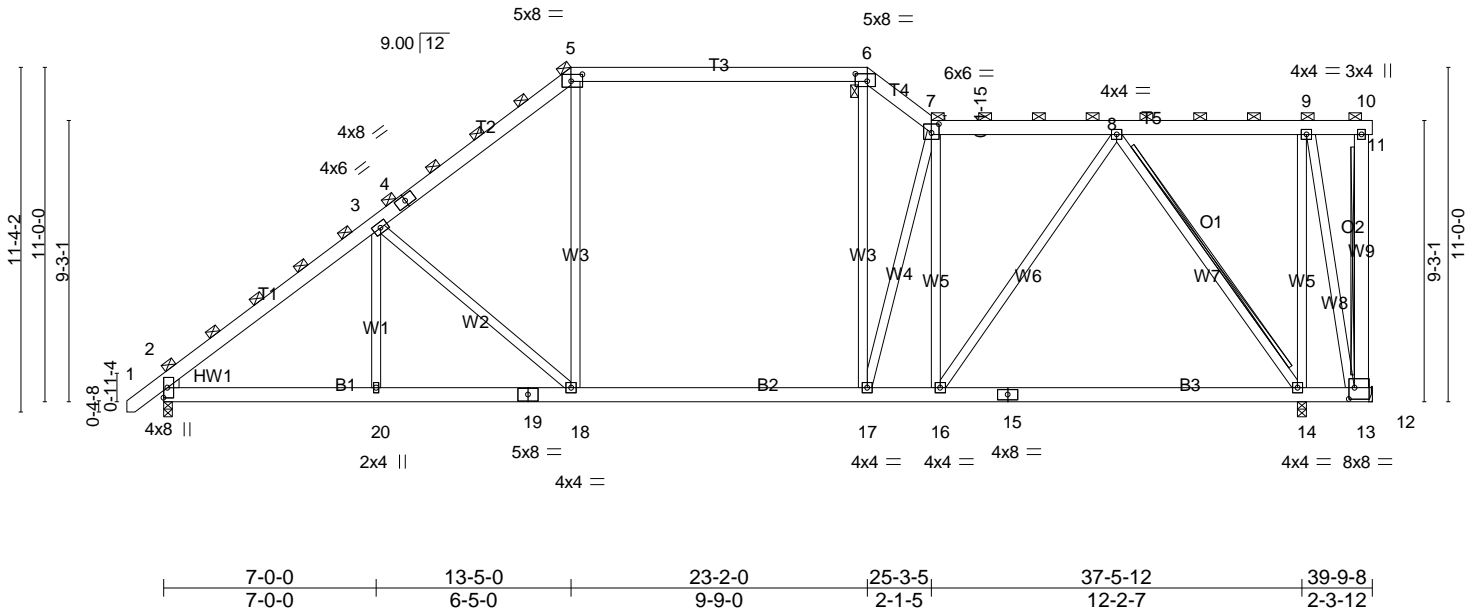


Plate Offsets (X,Y)--	[5:0-4-8,0-2-12], [6:0-4-12,0-3-0], [7:0-3-0,0-3-8], [13:0-2-4,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	4-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.24 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.35 14-16 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.05 14 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 17 >999 240		
				Weight: 701 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEDGE	6-0-0 oc bracing: 13-14.
Left: 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 10-13
	2x6 SPF No.2 - 8-14
	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) 13=Mechanical, 2=0-3-8 (min. 0-2-0), 14=0-3-8 (req. 0-3-13)  
 Max Horz 2=744(LC 9)  
 Max Uplift 13=-2572(LC 26), 2=-165(LC 12), 14=-856(LC 8)  
 Max Grav 13=1001(LC 8), 2=3412(LC 19), 14=6443(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4530/868, 3-5=-3761/978, 5-6=-2875/915, 6-7=-3571/1017, 7-8=-3096/844,  
 8-9=-288/415, 9-10=-284/320  
 BOT CHORD 2-20=-1413/3638, 18-20=-1413/3638, 17-18=-1045/2954, 16-17=-1041/3161,  
 14-16=-813/1813, 13-14=-476/398  
 WEBS 3-20=0/518, 3-18=-1137/487, 5-18=-80/1404, 6-17=-198/1552, 7-17=-1123/353,  
 7-16=-1372/629, 8-16=-388/2487, 8-14=-3395/890, 9-14=-2322/1046, 9-13=-1021/1686

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 23-2-0, Exterior(2) 23-2-0 to 25-3-5, Interior(1) 25-3-5 to 39-9-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2-2P	PIGGYBACK BASE	1	<b>2</b>	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 8) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2572 lb uplift at joint 13, 165 lb uplift at joint 2 and 856 lb uplift at joint 14.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss A2A	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 12:59:38 2022 Page 1  
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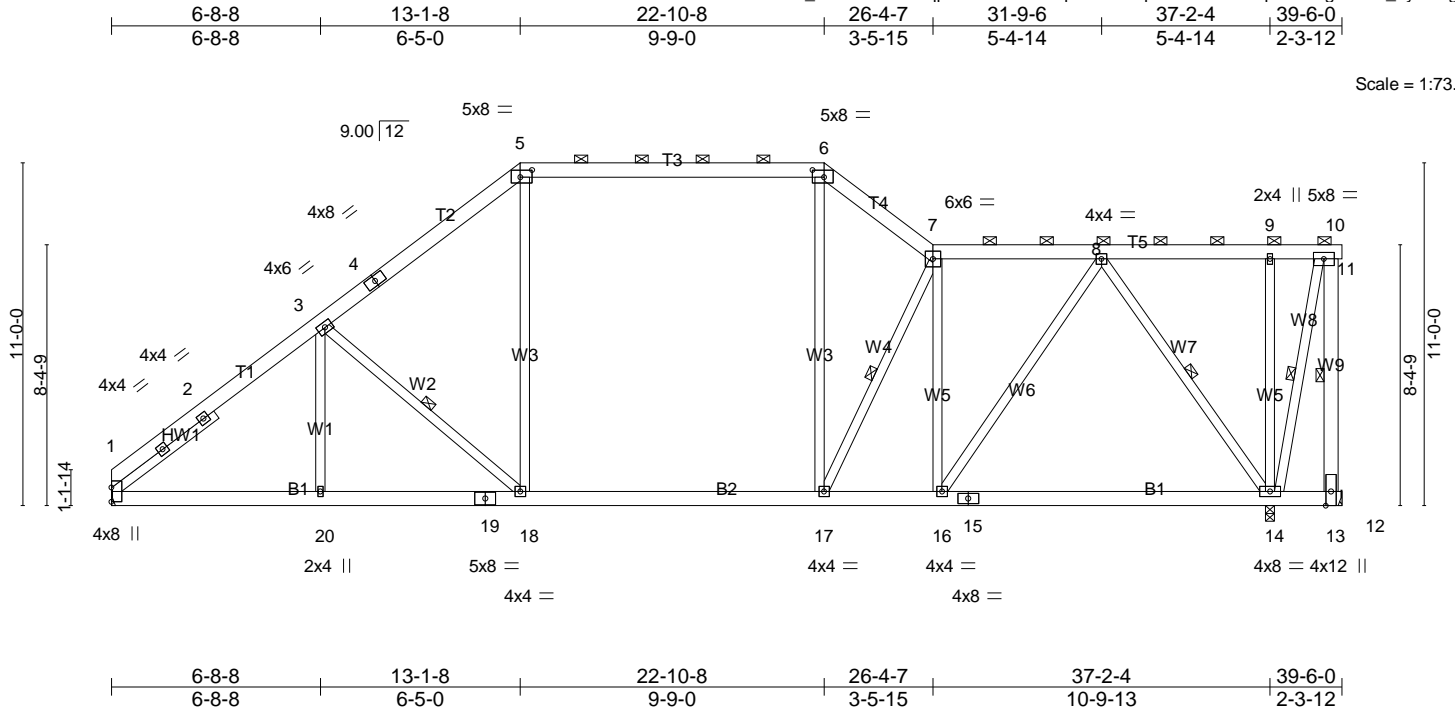


Plate Offsets (X,Y)-- [5:0-4-8,0-2-12], [6:0-4-8,0-2-12]
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LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL) -0.20	17-18	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(CT) -0.28	17-18	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.92	Horz(CT) 0.04	14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.14	16-17	>999	240		
	Code IRC2015/TPI2014						Weight: 342 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W9: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.2 - 4-2-2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-10 max.): 5-6, 7-11.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 10-13, 3-18, 7-17, 8-14, 10-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 13=Mechanical, 1=Mechanical, 14=0-3-8 (req. 0-3-14)  
 Max Horz 1=357(LC 9)  
 Max Uplift 13=-1416(LC 26), 1=-68(LC 12), 14=-605(LC 8)  
 Max Grav 13=666(LC 8), 1=1622(LC 19), 14=3309(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2177/440, 3-5=-1803/489, 5-6=-1402/459, 6-7=-1749/495, 7-8=-1528/411, 8-9=-98/285, 9-10=-98/285, 10-13=-642/1131  
 BOT CHORD 1-20=-657/1747, 18-20=-657/1747, 17-18=-484/1452, 16-17=-505/1585, 14-16=-383/887  
 WEBS 3-18=-500/229, 5-18=-38/654, 6-17=-71/725, 7-17=-384/171, 7-16=-866/294, 8-16=-211/1316, 8-14=-1684/431, 9-14=-345/164, 10-14=-1124/667

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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 13-1-8, Exterior(2) 13-1-8 to 17-6-5, Interior(1) 17-6-5 to 22-10-8, Exterior(2) 22-10-8 to 26-4-7, Interior(1) 26-4-7 to 39-6-0 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1416 lb uplift at joint 13, 68 lb uplift at joint 1 and 605 lb uplift at joint 14.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2A	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**LOAD CASE(S)** Standard



Job J0522-2459	Truss A2B	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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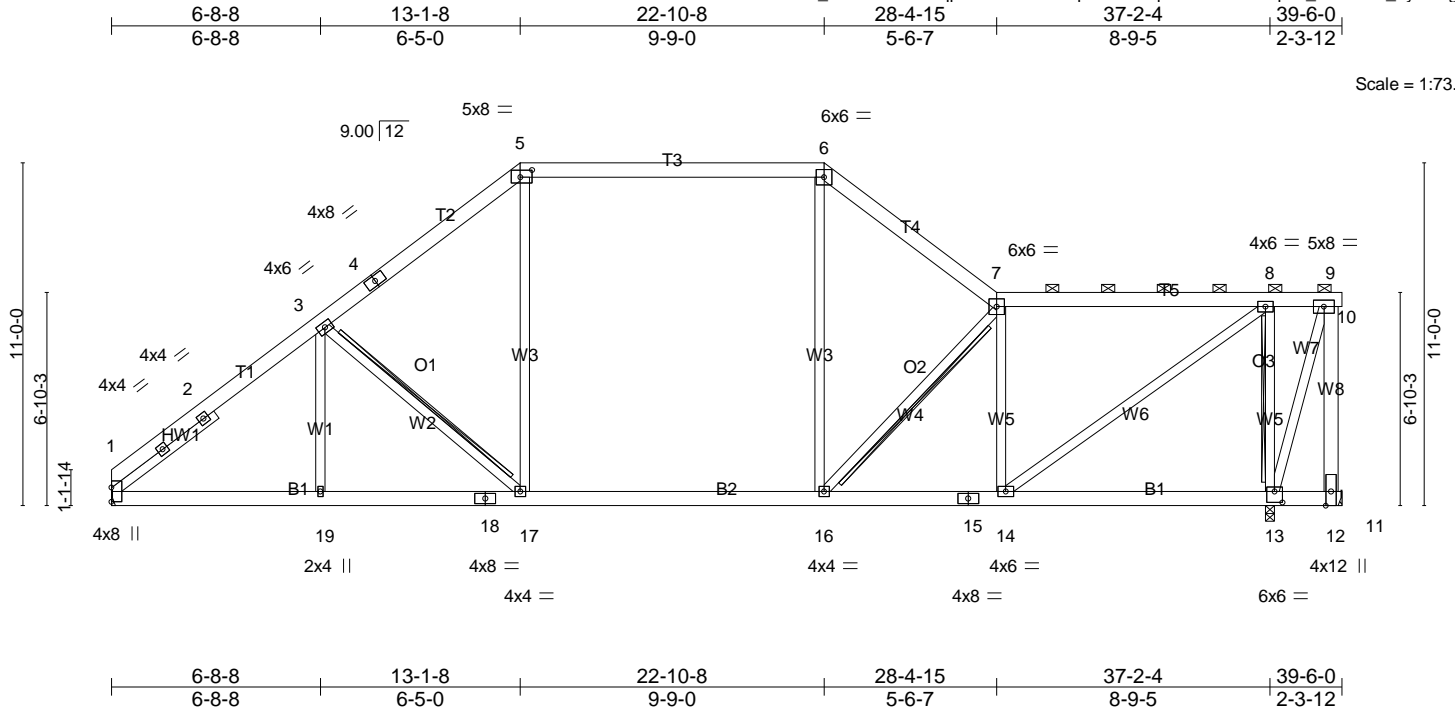


Plate Offsets (X,Y)-- [5:0-4-8,0-2-12], [13:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.20	16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.29	16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.04	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15	14-16	>999	240		
							Weight: 321 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W8: 2x6 SP No.1  
SLIDER Left 2x4 SP No.2 ~ 4-2-2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-9 max.): 5-6, 7-10.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.  
WEBS T-Brace: 2x4 SPF No.2 - 3-17, 7-16, 8-13  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 12=Mechanical, 1=Mechanical, 13=0-3-8 (req. 0-4-1)  
Max Horz 1=337(LC 9)  
Max Uplift 12=1544(LC 26), 1=-70(LC 12), 13=-725(LC 8)  
Max Grav 12=778(LC 8), 1=1620(LC 19), 13=3459(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2175/437, 3-5=-1793/485, 5-6=-1395/456, 6-7=-1811/470, 7-8=-1597/388, 8-9=-165/379, 9-12=-742/1333  
BOT CHORD 1-19=-579/1748, 17-19=-579/1748, 16-17=-410/1451, 14-16=-483/1655, 13-14=-408/296  
WEBS 3-17=-486/223, 5-17=-37/650, 6-16=-32/728, 7-16=-392/176, 7-14=-1140/356, 8-14=-427/2177, 8-13=-1793/555, 9-13=-1228/751

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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 13-1-8, Exterior(2) 13-1-8 to 17-6-5, Interior(1) 17-6-5 to 22-10-8, Exterior(2) 22-10-8 to 27-3-5, Interior(1) 27-3-5 to 39-6-0 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1544 lb uplift at joint 12, 70 lb uplift at joint 1 and 725 lb uplift at joint 13.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2B	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss A2C	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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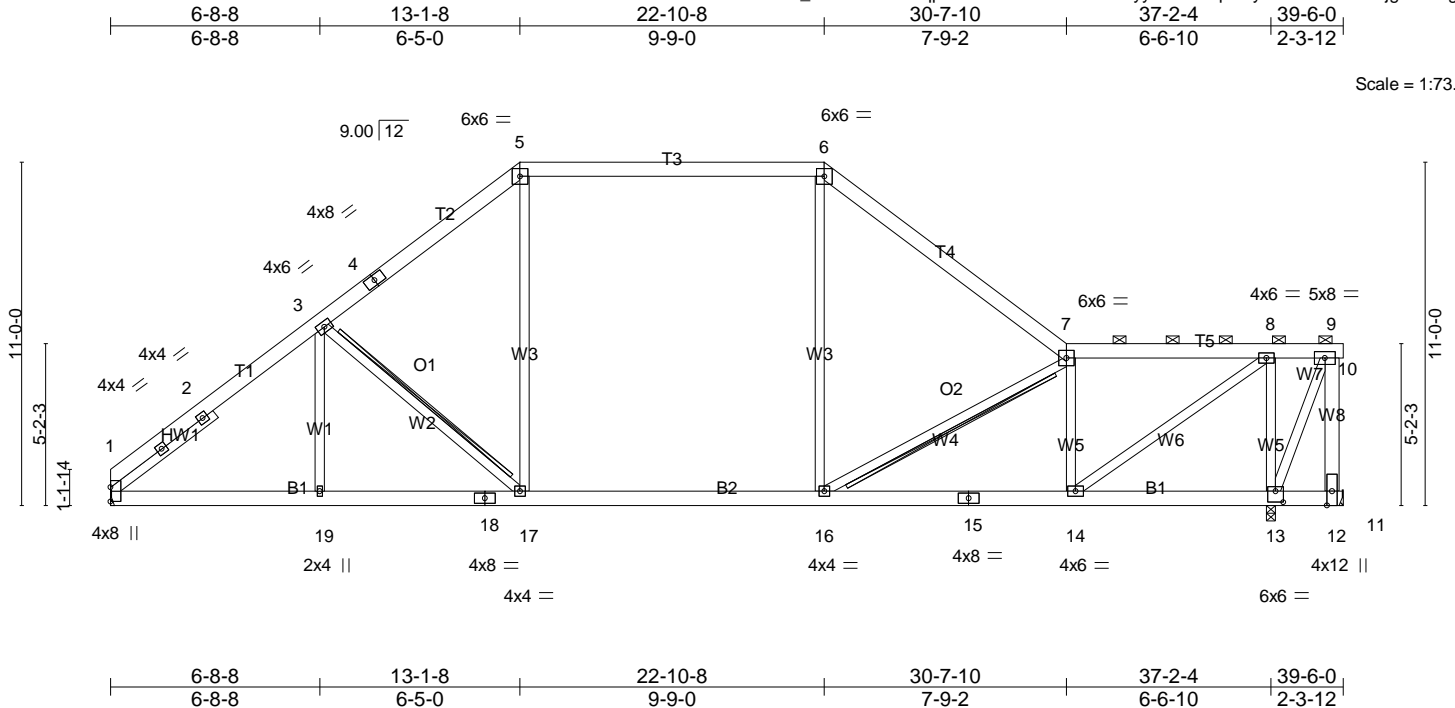


Plate Offsets (X,Y)-- [13:0-3:0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.19	16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.27	16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.04	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15	14-16	>999	240		
							Weight: 308 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W8: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.2 ~ 4-2-2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-1 max.): 5-6, 7-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.  
 WEBS T-Brace: 2x4 SPF No.2 - 3-17, 7-16  
 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 12=Mechanical, 1=Mechanical, 13=0-3-8 (req. 0-4-1)

Max Horz 1=315(LC 11)  
 Max Uplift 12=1756(LC 24), 1=-72(LC 12), 13=-815(LC 8)  
 Max Grav 12=860(LC 8), 1=1600(LC 19), 13=3434(LC 24)

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

TOP CHORD 1-3=-2148/431, 3-5=-1749/478, 5-6=-1356/449, 6-7=-1810/445, 7-8=-1601/338,  
 8-9=-295/669, 9-12=-809/1624  
 BOT CHORD 1-19=-490/1731, 17-19=-490/1731, 16-17=-325/1419, 14-16=-442/1662, 13-14=-669/392  
 WEBS 3-17=-478/218, 5-17=-39/638, 6-16=0/650, 7-16=-359/159, 7-14=-1244/370,  
 8-14=-449/2162, 8-13=-1639/457, 9-13=-1665/855

**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 13-1-8, Exterior(2) 13-1-8 to 17-6-5, Interior(1) 17-6-5 to 22-10-8, Exterior(2) 22-10-8 to 27-3-5, Interior(1) 27-3-5 to 39-6-0 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) 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) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1756 lb uplift at joint 12, 72 lb uplift at joint 1 and 815 lb uplift at joint 13.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2C	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

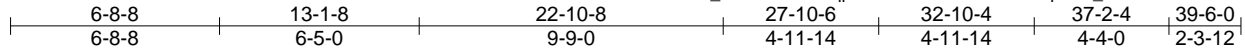
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2D	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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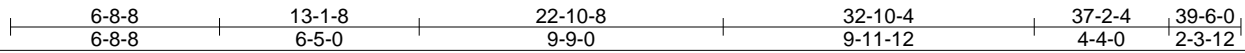
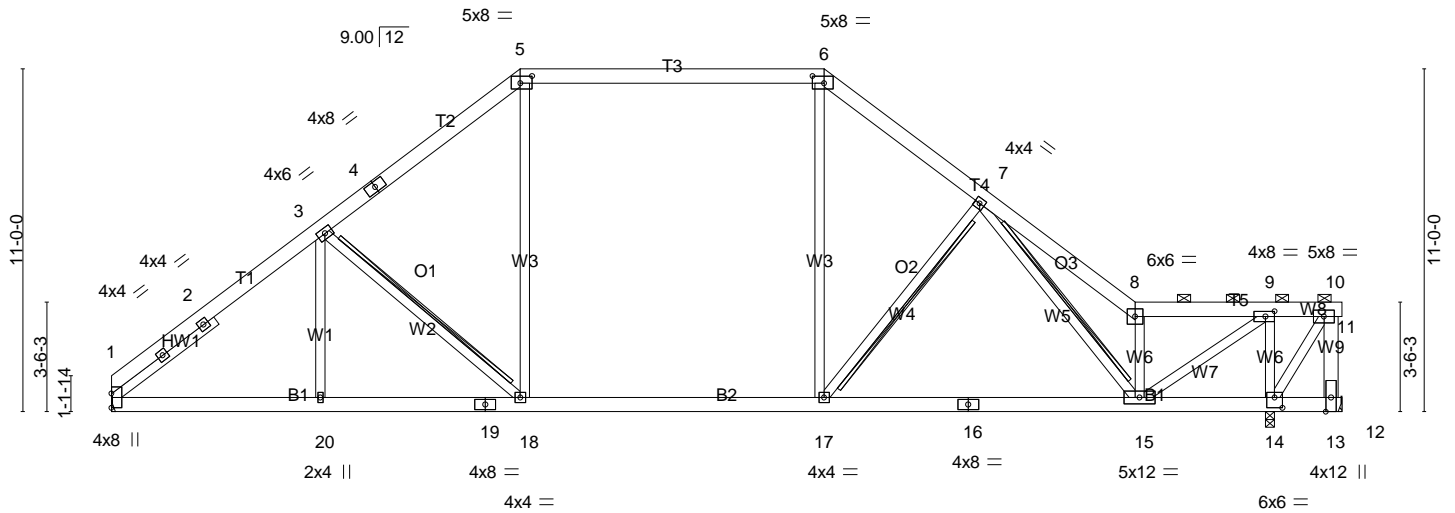


Plate Offsets (X,Y)-- [5:0-4-8,0-2-12], [6:0-4-8,0-2-12], [9:0-3-8,0-2-0], [14:0-3-0,0-4-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.22 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.31 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.04 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.16 18-20	>999	240		
								Weight: 305 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W9: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.2 ~ 4-2-2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-6 max.); 5-6, 8-11.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,13-14.  
 WEBS T-Brace: 2x4 SPF No.2 - 3-18, 7-17, 7-15  
 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 13=Mechanical, 1=Mechanical, 14=0-3-8 (req. 0-4-12)  
 Max Horz 1=293(LC 9)  
 Max Uplift 13=-2179(LC 20), 1=-71(LC 12), 14=-645(LC 8)  
 Max Grav 13=694(LC 8), 1=1595(LC 19), 14=4042(LC 26)

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

TOP CHORD 1-3=-2139/432, 3-5=-1750/475, 5-6=-1360/450, 6-7=-1758/486, 7-8=-1822/461,  
 8-9=-1377/297, 9-10=-389/1308, 10-13=-639/2028  
 BOT CHORD 1-20=-401/1727, 18-20=-401/1727, 17-18=-236/1418, 15-17=-348/1495, 14-15=-1336/452  
 WEBS 3-20=0/255, 3-18=-484/219, 5-18=-35/624, 6-17=-45/711, 7-17=-332/202,  
 7-15=-664/376, 8-15=-1207/379, 9-15=-403/2620, 9-14=-1886/383, 10-14=-2296/735

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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 13-1-8, Exterior(2) 13-1-8 to 17-6-5, Interior(1) 17-6-5 to 22-10-8, Exterior(2) 22-10-8 to 27-3-5, Interior(1) 27-3-5 to 39-6-0 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
- Provide adequate drainage to prevent water ponding.
- 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.
- WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2179 lb uplift at joint 13, 71 lb uplift at joint 1 and 645 lb uplift at joint 14.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2D	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

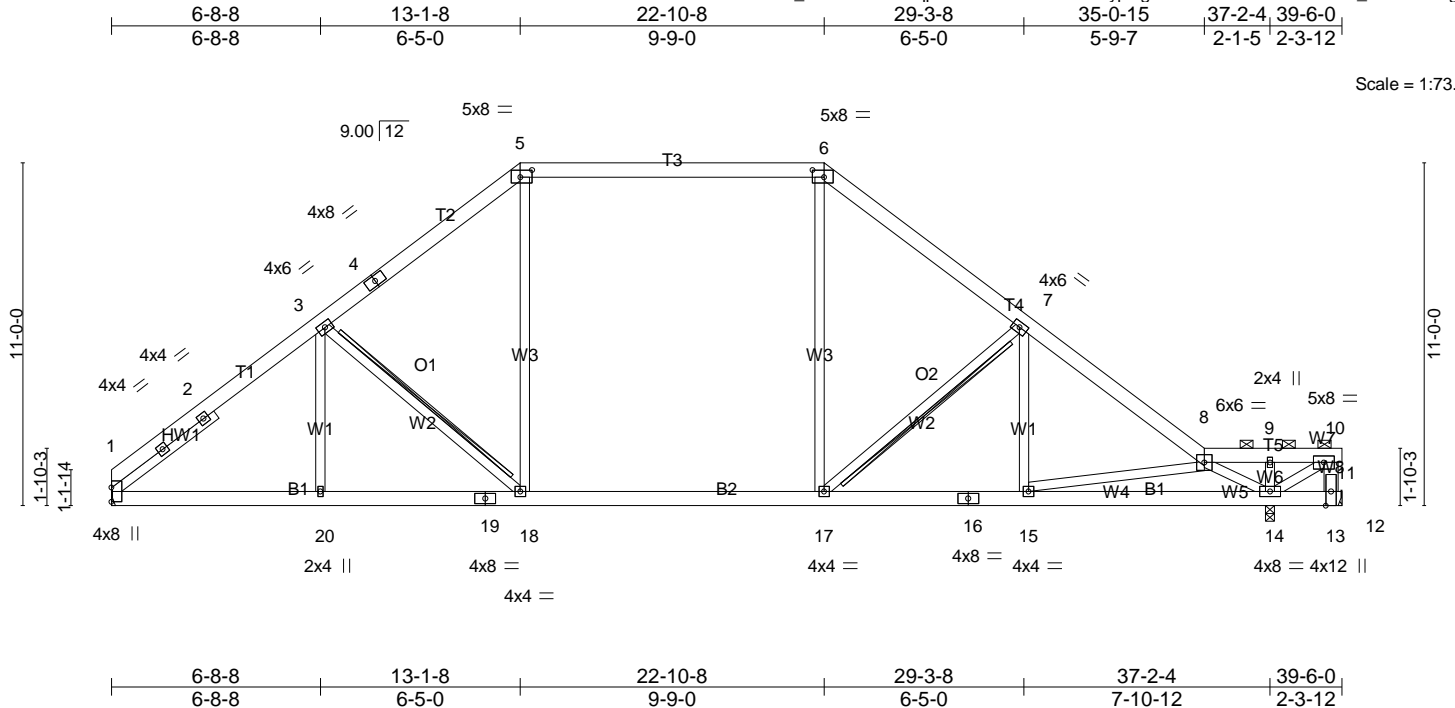
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2E	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:73.9

Plate Offsets (X,Y)--	[5:0-4-8,0-2-12], [6:0-4-8,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.21 17-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.28 17-18 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 14 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.19 18-20 >999 240		
				Weight: 295 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W8: 2x6 SP No.1  
 SLIDER Left 2x4 SP No.2 ~ 4-2-2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 5-6, 8-11.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.  
 WEBS T-Brace: 2x4 SPF No.2 - 3-18, 7-17  
 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 13=Mechanical, 1=Mechanical, 14=0-3-8 (min. 0-3-8)  
 Max Horz 1=271(LC 9)  
 Max Uplift 13=1327(LC 24), 1=62(LC 12), 14=417(LC 8)  
 Max Grav 13=474(LC 8), 1=1580(LC 19), 14=2982(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2129/434, 3-5=-1740/480, 5-6=-1348/453, 6-7=-1768/480, 7-8=-1929/416,  
 8-9=-617/1657, 9-10=-616/1655, 10-13=-446/1163  
 BOT CHORD 1-20=-308/1718, 18-20=-308/1718, 17-18=-145/1390, 15-17=-276/1523, 14-15=-576/1406  
 WEBS 3-18=-470/215, 5-18=-35/621, 6-17=-30/652, 7-17=-449/189, 8-15=-431/1030,  
 8-14=-2370/578, 9-14=-487/125, 10-14=-1761/697

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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 13-1-8, Exterior(2) 13-1-8 to 17-6-5, Interior(1) 17-6-5 to 22-10-8, Exterior(2) 22-10-8 to 27-3-5, Interior(1) 27-3-5 to 39-6-0 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1327 lb uplift at joint 13, 62 lb uplift at joint 1 and 417 lb uplift at joint 14.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and conform to standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A2E	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard



Job J0522-2459	Truss A3-2P	Truss Type HALF HIP	Qty 1	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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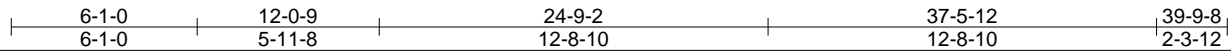
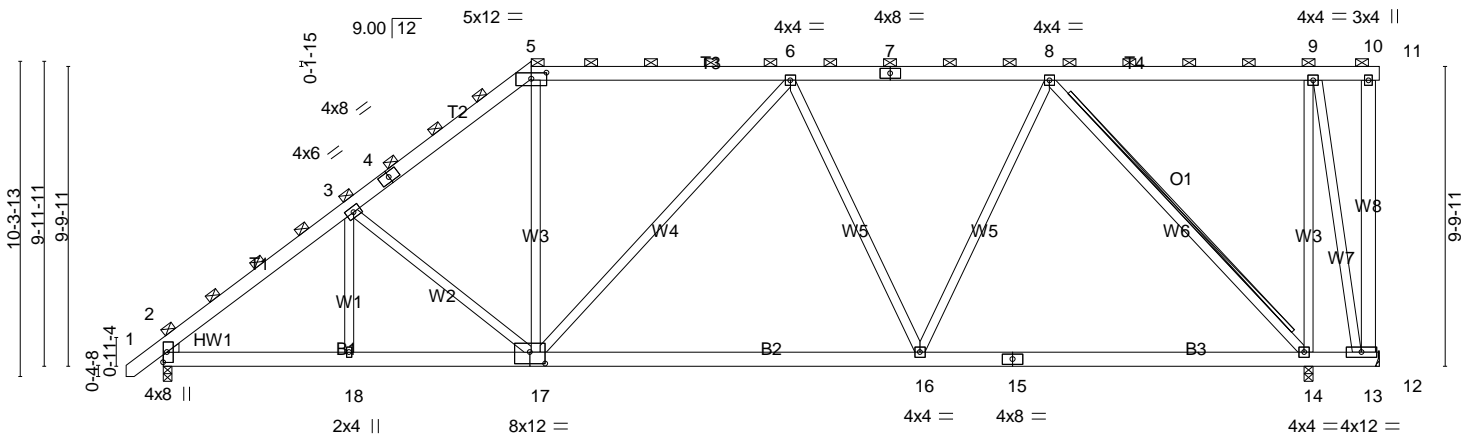


Plate Offsets (X,Y)-- [5:0-6-0,0-2-6], [17:0-6-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.26	16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.40	16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.05	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	16-17	>999	240		
							Weight: 683 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W8: 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.2

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.  
 WEBS T-Brace: 2x6 SPF No.2 - 8-14  
 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) 13=Mechanical, 2=0-3-8 (min. 0-1-13), 14=0-3-8 (min. 0-2-13)  
 Max Horz 2=705(LC 9)  
 Max Uplift 13=986(LC 18), 2=-118(LC 12), 14=-222(LC 9)  
 Max Grav 2=3122(LC 25), 14=4723(LC 25)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4211/915, 3-5=-3729/980, 5-6=-2877/905, 6-8=-3122/874, 8-9=-272/347, 9-10=-300/343, 10-13=-196/285  
 BOT CHORD 2-18=-1462/3244, 17-18=-1462/3244, 16-17=-1130/3314, 14-16=-820/2325, 13-14=-336/336  
 WEBS 3-18=0/374, 3-17=-853/440, 5-17=-158/1455, 6-17=-820/402, 6-16=-799/552, 8-16=-198/1930, 8-14=-3516/905, 9-14=-931/432

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-0-9, Exterior(2) 12-0-9 to 18-3-4, Interior(1) 18-3-4 to 39-9-8 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A3-2P	HALF HIP	1	<b>2</b>	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

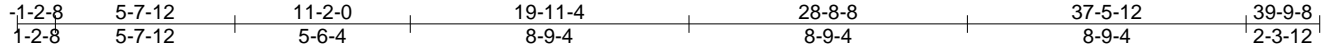
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 986 lb uplift at joint 13, 118 lb uplift at joint 2 and 222 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A3A	Half Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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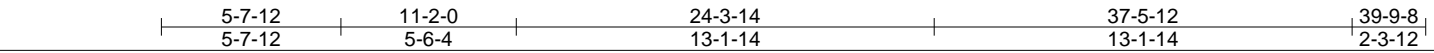
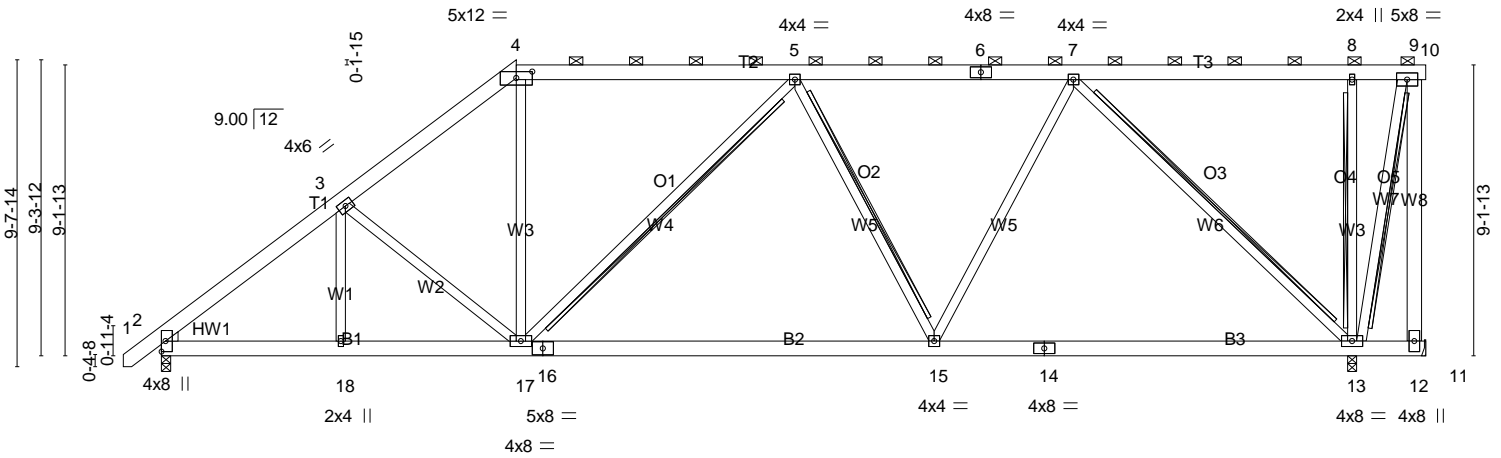


Plate Offsets (X,Y)-- [4:0-6-0,0-2-6]

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	-0.28	15-17	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(CT)	-0.44	15-17	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Horz(CT)	0.05	13	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05	15-17	>999		
	Code IRC2015/TPI2014						Weight: 333 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W8: 2x6 SP No.1

WEDGE  
Left: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-3 max.): 4-10.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 5-17, 5-15, 8-13, 9-13  
2x6 SPF No.2 - 7-13  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 12=Mechanical, 2=0-3-8 (min. 0-1-13), 13=0-3-8 (min. 0-3-2)  
Max Horz 2=328(LC 11)  
Max Uplift 12=730(LC 25), 2=-54(LC 12), 13=-186(LC 9)  
Max Grav 2=1549(LC 25), 13=2645(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2082/455, 3-4=-1886/482, 4-5=-1466/444, 5-7=-1658/435, 9-12=-128/408  
BOT CHORD 2-18=-709/1573, 17-18=-709/1573, 15-17=-570/1752, 13-15=-406/1226  
WEBS 3-17=-368/208, 4-17=-74/746, 5-17=-480/200, 5-15=-382/275, 7-15=-88/960,  
7-13=-1834/469, 8-13=-502/294, 9-13=-309/82

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 11-2-0, Exterior(2) 11-2-0 to 17-4-11, Interior(1) 17-4-11 to 39-9-8 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 730 lb uplift at joint 12, 54 lb uplift at joint 2 and 186 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A3A	Half Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

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

**LOAD CASE(S)** Standard

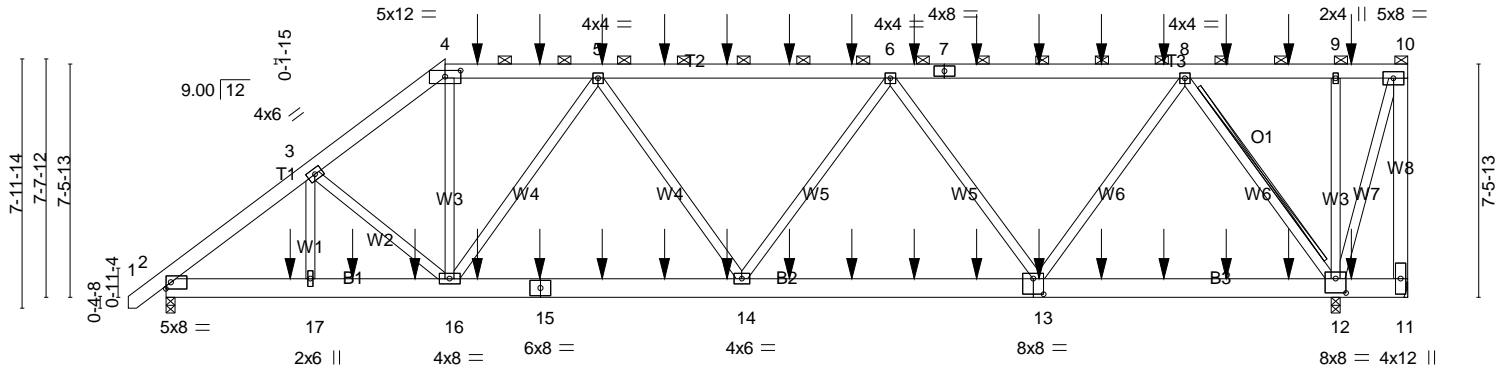
Job J0522-2459	Truss A3GR	Truss Type Half Hip Girder	Qty 1	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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-1-2-8	4-7-9	8-11-5	13-10-2	23-2-9	32-7-13	37-5-12	39-9-8
1-2-8	4-7-9	4-3-12	4-10-13	9-4-6	9-5-4	4-9-15	2-3-12

Scale = 1:73.8



4-7-9	8-11-5	18-5-8	27-11-10	37-5-12	39-9-8
4-7-9	4-3-12	9-6-2	9-6-2	9-6-2	2-3-12
Plate Offsets (X,Y)-- [4:0-6-0,0-2-6], [12:0-4-0,0-5-8], [13:0-4-0,0-6-0]					

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.08	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.16	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Horz(CT) 0.05	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	13-14	>999	240		
							Weight: 705 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W8: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-10.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.  
WEBS T-Brace: 2x4 SPF No.2 - 8-12  
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=Mechanical, 2=0-3-8 (min. 0-2-3), 12=0-3-8 (req. 0-3-10)  
Max Horz 2=265(LC 5)  
Max Uplift 11=-1799(LC 36), 2=-1074(LC 8), 12=-1956(LC 5)  
Max Grav 11=455(LC 5), 2=3675(LC 33), 12=6126(LC 36)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-5261/1600, 3-4=-4692/1464, 4-5=-3819/1234, 5-6=-4986/1598, 6-8=-3571/1158, 8-9=-204/440, 9-10=-204/440, 10-11=-474/1393  
BOT CHORD 2-17=-1405/4037, 16-17=-1405/4037, 14-16=-1783/4784, 13-14=-1807/4718, 12-13=-843/1954  
WEBS 3-17=-210/596, 3-16=-327/199, 4-16=-696/2447, 5-16=-1758/903, 5-14=0/530, 6-14=0/598, 6-13=-2118/1042, 8-13=-674/2823, 8-12=-4150/1643, 9-12=-517/321, 10-12=-1419/491

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	A3GR	Half Hip Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1799 lb uplift at joint 11, 1074 lb uplift at joint 2 and 1956 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 203 lb down and 196 lb up at 9-11-12, 203 lb down and 196 lb up at 11-11-12, 203 lb down and 196 lb up at 13-11-12, 203 lb down and 196 lb up at 15-11-12, 203 lb down and 196 lb up at 17-11-12, 203 lb down and 196 lb up at 19-11-12, 203 lb down and 196 lb up at 21-11-12, 203 lb down and 196 lb up at 23-11-12, 203 lb down and 196 lb up at 25-11-12, 203 lb down and 196 lb up at 27-11-12, 203 lb down and 196 lb up at 29-11-12, 203 lb down and 196 lb up at 31-11-12, 203 lb down and 196 lb up at 33-11-12, and 203 lb down and 196 lb up at 35-11-12, and 203 lb down and 196 lb up at 37-11-12 on top chord, and 371 lb down and 165 lb up at 3-11-12, 368 lb down and 92 lb up at 5-11-12, 377 lb down and 119 lb up at 7-11-12, 114 lb down at 9-11-12, 114 lb down at 11-11-12, 114 lb down at 13-11-12, 114 lb down at 15-11-12, 114 lb down at 17-11-12, 114 lb down at 19-11-12, 114 lb down at 21-11-12, 114 lb down at 23-11-12, 114 lb down at 25-11-12, 114 lb down at 27-11-12, 114 lb down at 29-11-12, 114 lb down at 31-11-12, 114 lb down at 33-11-12, and 114 lb down at 35-11-12, and 114 lb down at 37-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-10=-60, 2-11=-20

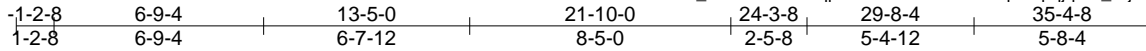
Concentrated Loads (lb)

Vert: 15=-57(F) 5=-165(F) 13=-57(F) 18=-165(F) 19=-165(F) 20=-165(F) 21=-165(F) 22=-165(F) 23=-165(F) 24=-165(F) 25=-165(F) 26=-165(F) 27=-165(F) 28=-165(F) 29=-165(F) 30=-165(F) 31=-165(F) 32=-371(F) 33=-285(F) 34=-285(F) 35=-57(F) 36=-57(F) 37=-57(F) 38=-57(F) 39=-57(F) 41=-57(F) 42=-57(F) 44=-57(F) 45=-57(F) 47=-57(F) 48=-57(F) 50=-57(F) 51=-57(F)

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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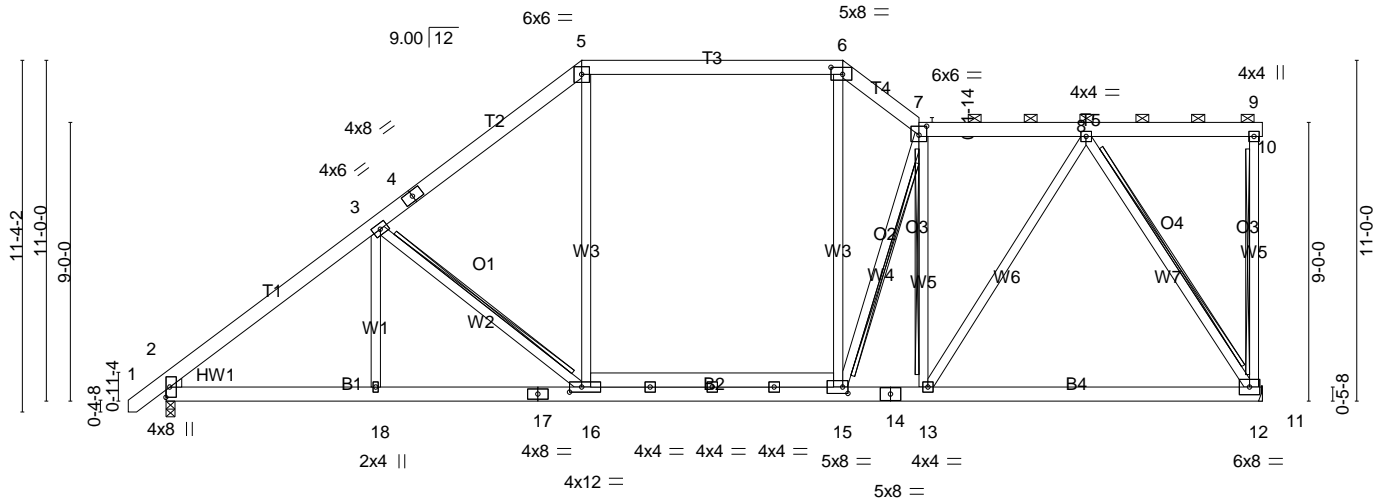


Plate Offsets (X,Y)--	[6:0-4-8,0-2-12], [7:0-3-0,0-3-8], [15:0-2-0,0-2-8], [16:0-4-12,0-2-0]
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LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) -0.23 12-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.33 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 13-15 >999 240		
				Weight: 313 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6, 7-10.  
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 9-12, 3-16, 7-15, 7-13, 8-12  
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 12=Mechanical, 2=0-3-8 (min. 0-1-13)  
Max Horz 2=369(LC 9)  
Max Uplift 12=123(LC 9), 2=65(LC 12)  
Max Grav 12=1627(LC 2), 2=1530(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2036/415, 3-5=-1690/469, 5-6=-1276/442, 6-7=-1597/493, 7-8=-1448/408  
BOT CHORD 2-18=-658/1642, 16-18=-658/1642, 15-16=-460/1297, 13-15=-421/1454, 12-13=-324/850  
WEBS 3-18=0/292, 3-16=-606/255, 5-16=-47/591, 6-15=-113/665, 7-15=-776/196, 7-13=-659/397, 8-13=-173/1139, 8-12=-1563/448

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 24-3-8, Interior(1) 24-3-8 to 35-4-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 12 and 65 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

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

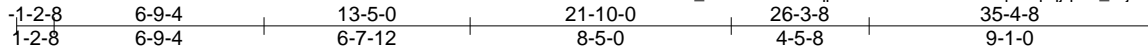
**LOAD CASE(S)** Standard



Job J0522-2459	Truss B1A	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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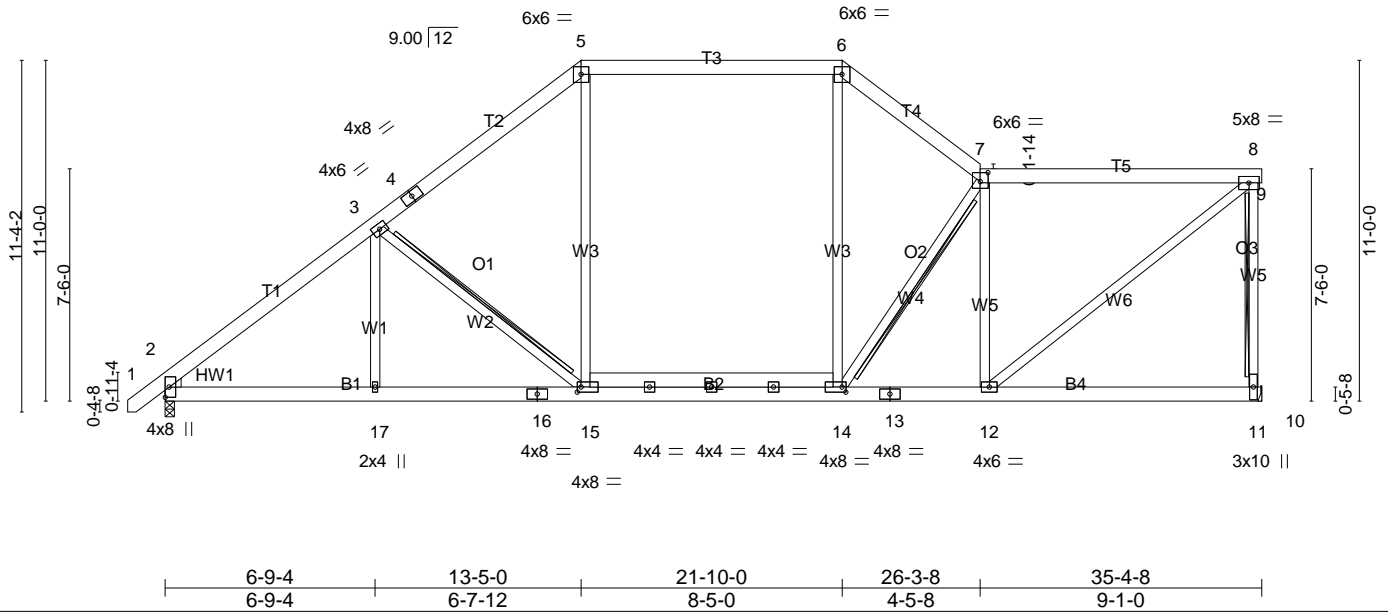


Plate Offsets (X,Y)-- [7:0-3-0,0-3-8], [14:0-1-8,0-2-0], [15:0-1-8,0-2-0]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.16 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.21 15-17 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 12-14 >999 240		
				Weight: 297 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-5 max.): 5-6, 7-9.  
Rigid ceiling directly applied or 9-11-7 oc bracing.  
BOT CHORD T-Brace: 2x4 SPF No.2 - 8-11, 3-15, 7-14  
WEBS 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8 (min. 0-1-12)  
Max Horz 2=349(LC 9)  
Max Uplift 11=-80(LC 13), 2=-66(LC 12)  
Max Grav 11=1579(LC 2), 2=1500(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1996/421, 3-5=-1636/478, 5-6=-1232/449, 6-7=-1608/486, 7-8=-1420/412, 8-11=-1363/398  
BOT CHORD 2-17=-592/1613, 15-17=-592/1613, 14-15=-399/1249, 12-14=-411/1438  
WEBS 3-17=0/292, 3-15=-589/249, 5-15=-51/565, 6-14=-90/646, 7-14=-510/224, 8-12=-420/1801, 7-12=-957/424

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 26-3-8, Interior(1) 26-3-8 to 35-4-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 11 and 66 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1A	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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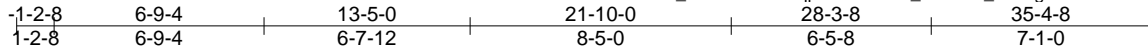
**NOTES-**

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

**LOAD CASE(S)** Standard

Job J0522-2459	Truss B1B	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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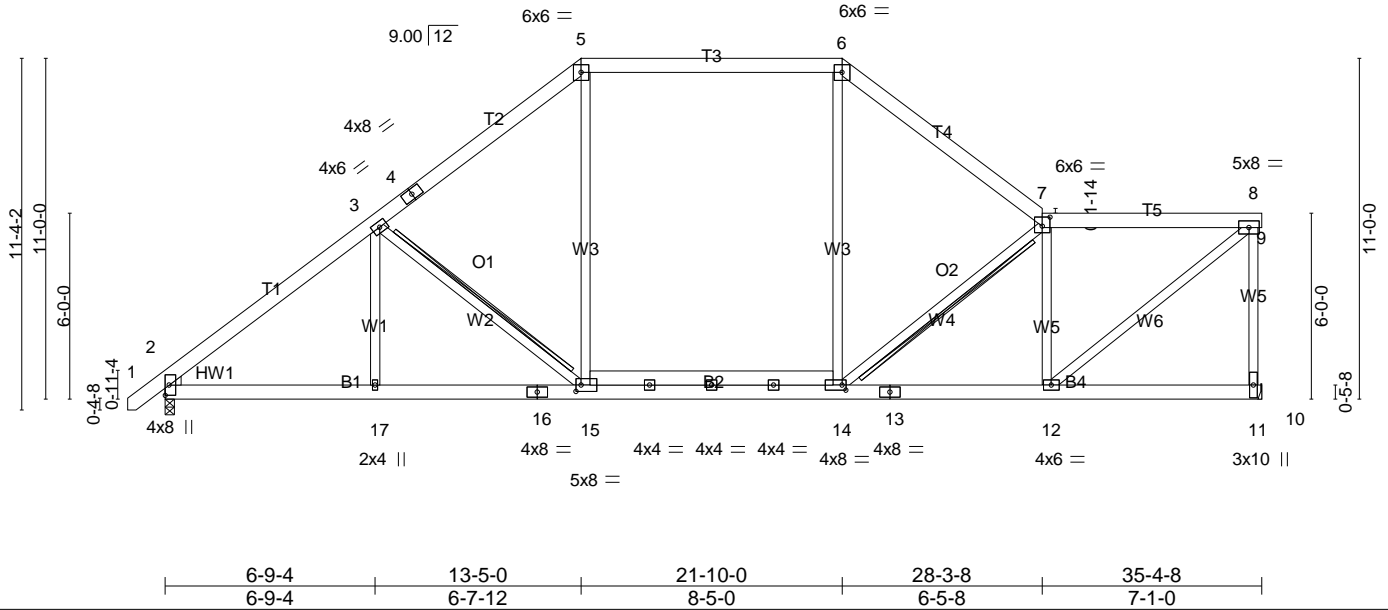


Plate Offsets (X,Y)-- [7:0-3-0,0-3-8], [14:0-1-8,0-2-0], [15:0-2-0,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) -0.18 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.24 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.16 12-14 >999 240		
				Weight: 290 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6, 7-9.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 3-15, 7-14  
 WEBS 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8 (min. 0-1-12)  
 Max Horz 2=329(LC 11)  
 Max Uplift 11=-69(LC 13), 2=-67(LC 12)  
 Max Grav 11=1416(LC 2), 2=1489(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1981/417, 3-5=-1622/475, 5-6=-1221/447, 6-7=-1616/448, 7-8=-1415/394, 8-11=-1342/366  
 BOT CHORD 2-17=-522/1604, 15-17=-522/1604, 14-15=-335/1236, 12-14=-389/1441  
 WEBS 3-17=0/283, 3-15=-564/241, 5-15=-54/568, 6-14=-25/580, 7-14=-451/213, 7-12=-1049/387, 8-12=-413/1818

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) 1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 26-2-13, Interior(1) 26-2-13 to 35-4-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 11 and 67 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1B	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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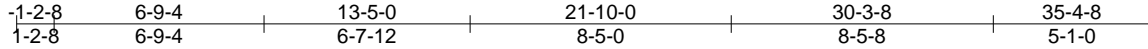
**NOTES-**

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

**LOAD CASE(S)** Standard

Job J0522-2459	Truss B1C	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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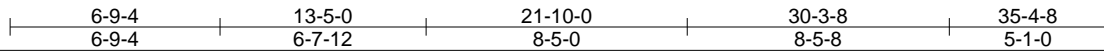
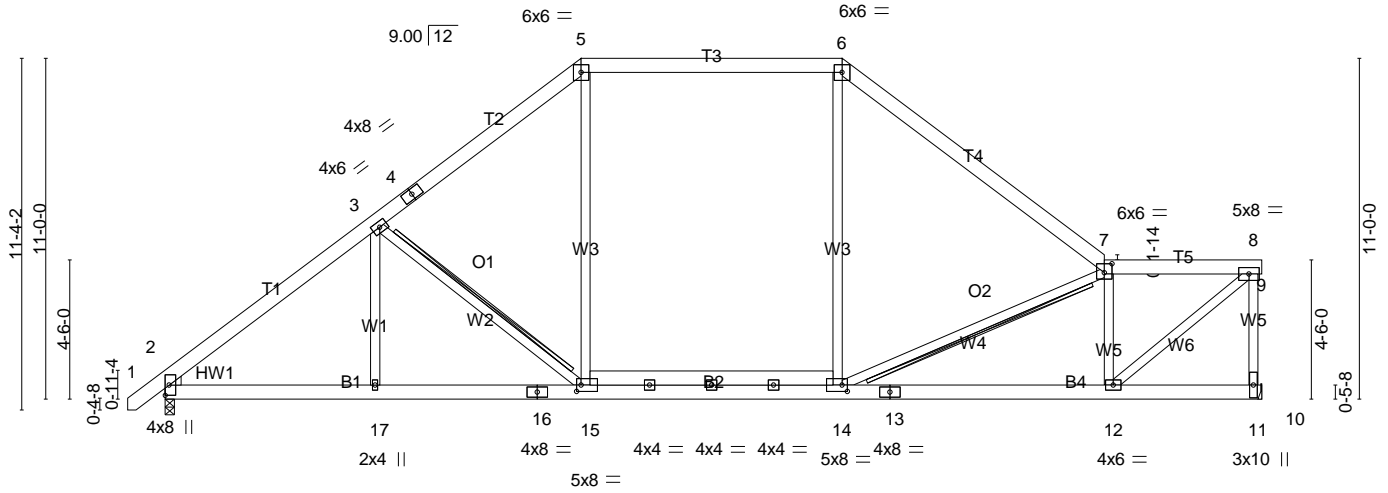


Plate Offsets (X,Y)-- [7:0-3-0,0-3-8], [14:0-2-0,0-2-8], [15:0-1-12,0-2-8]

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.21	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.29	12-14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Horz(CT)	0.03	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.19	12-14	>999		
	Code IRC2015/TPI2014						Weight: 284 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6, 7-9.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 3-15, 7-14  
 WEBS 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8 (min. 0-1-12)  
 Max Horz 2=310(LC 9)  
 Max Uplift 11=-61(LC 13), 2=-67(LC 12)  
 Max Grav 11=1416(LC 2), 2=1488(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1978/415, 3-5=-1628/474, 5-6=-1225/446, 6-7=-1653/418, 7-8=-1452/379, 8-11=-1365/331  
 BOT CHORD 2-17=-448/1605, 15-17=-448/1605, 14-15=-267/1239, 12-14=-376/1491  
 WEBS 3-17=-2/271, 3-15=-537/233, 5-15=-61/583, 6-14=0/539, 7-14=-474/229, 7-12=-1125/389, 8-12=-421/1901

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 26-2-13, Interior(1) 26-2-13 to 35-4-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 11 and 67 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1C	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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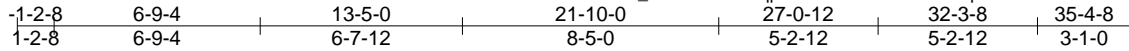
**NOTES-**

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

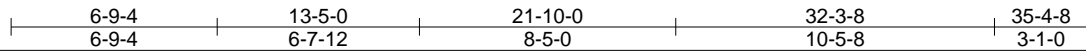
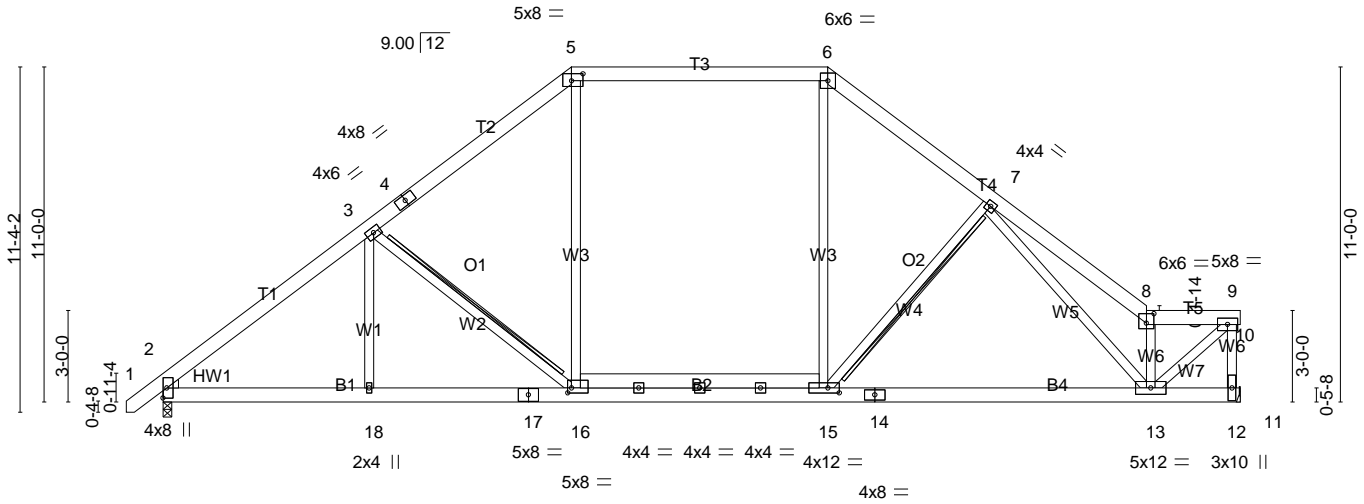
**LOAD CASE(S)** Standard

Job J0522-2459	Truss B1D	Truss Type Piggyback Base	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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Scale = 1:75.7



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) -0.34 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.46 13-15 >912 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.19 13-15 >999 240		
				Weight: 287 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 5-6, 8-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS T-Brace: 2x4 SPF No.2 - 3-16, 7-15  
 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 12=Mechanical, 2=0-3-8 (min. 0-1-13)  
 Max Horz 2=290(LC 11)  
 Max Uplift 12=-55(LC 13), 2=-68(LC 12)  
 Max Grav 12=1552(LC 2), 2=1528(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2026/416, 3-5=-1719/467, 5-6=-1306/439, 6-7=-1717/462, 7-8=-2165/464, 8-9=-1606/275, 9-12=-1626/262  
 BOT CHORD 2-18=-371/1643, 16-18=-371/1643, 15-16=-187/1321, 13-15=-310/1500  
 WEBS 3-18=-7/262, 3-16=-534/237, 5-16=-49/596, 6-15=-57/702, 7-15=-453/238, 7-13=-72/365, 8-13=-1385/351, 9-13=-320/2165

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-5-0, Exterior(2) 13-5-0 to 17-9-13, Interior(1) 17-9-13 to 21-10-0, Exterior(2) 21-10-0 to 26-2-13, Interior(1) 26-2-13 to 35-4-8 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 12 and 68 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B1D	Piggyback Base	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

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

**LOAD CASE(S)** Standard



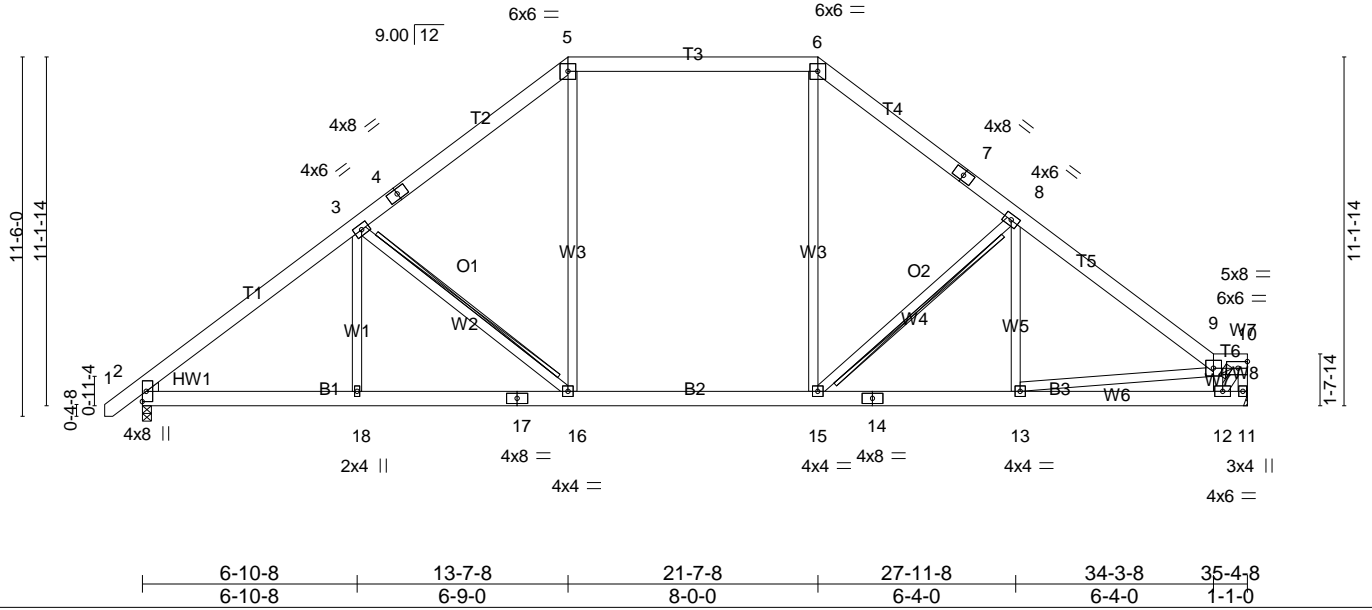
Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B2	Roof Special	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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-1-2-8	6-10-8	13-7-8	21-7-8	27-11-8	34-3-8	35-4-8
1-2-8	6-10-8	6-9-0	8-0-0	6-4-0	6-4-0	1-1-0

Scale = 1:73.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.20 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.24 13-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.18 16-18 >999 240	Weight: 270 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6, 9-10.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 3-16, 8-15  
 WEBS 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8 (min. 0-1-12)  
 Max Horz 2=279(LC 11)  
 Max Uplift 11=53(LC 13), 2=69(LC 12)  
 Max Grav 11=1474(LC 2), 2=1509(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1999/416, 3-5=-1662/471, 5-6=-1253/444, 6-8=-1662/469, 8-9=-2011/417, 9-10=-977/189, 10-11=-1343/202  
 BOT CHORD 2-18=-296/1629, 16-18=-296/1629, 15-16=-116/1278, 13-15=-256/1551, 12-13=-238/1148  
 WEBS 3-18=0/284, 3-16=-553/232, 5-16=-54/587, 6-15=-58/623, 8-15=-591/235, 9-13=-18/409, 9-12=-1434/378, 10-12=-293/1590

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-7-8, Exterior(2) 13-7-8 to 18-0-5, Interior(1) 18-0-5 to 21-7-8, Exterior(2) 21-7-8 to 26-0-5, Interior(1) 26-0-5 to 35-2-12 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
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 11 and 69 lb uplift at joint 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B2	Roof Special	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**LOAD CASE(S)** Standard



Job J0522-2459	Truss B4	Truss Type Hip	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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1-2-8 4-10-8 9-7-8 17-7-8 25-7-8 30-4-8 35-3-0 36-5-8  
1-2-8 4-10-8 4-9-0 8-0-0 8-0-0 4-9-0 4-10-8 1-2-8

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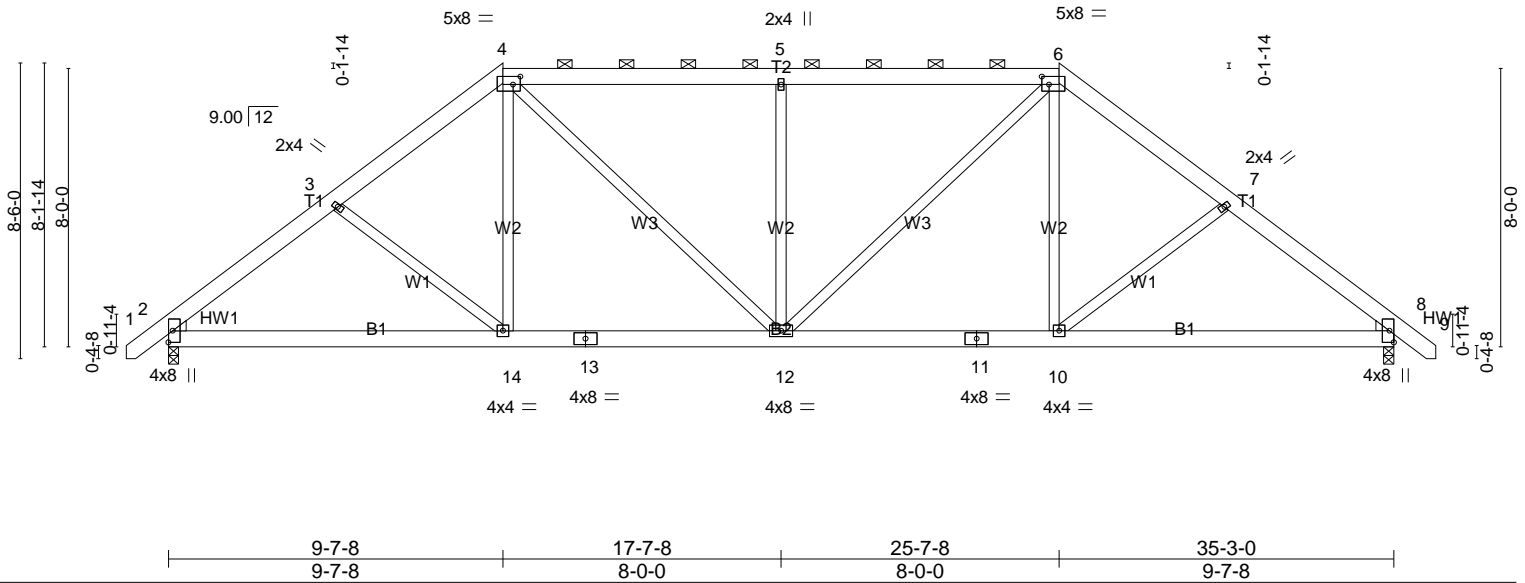


Plate Offsets (X,Y)-- [4:0-2-8,0-2-12], [6:0-2-8,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.07 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.13 2-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 12 >999 240		
				Weight: 265 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.2, Right: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins, except 2-0-0 oc purlins (5-8-15 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-12), 8=0-3-8 (min. 0-1-12)  
Max Horz 2=191(LC 11)  
Max Uplift 2=46(LC 12), 8=46(LC 13)  
Max Grav 2=1472(LC 1), 8=1472(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1908/483, 3-4=-1761/474, 4-5=-1736/542, 5-6=-1736/542, 6-7=-1761/475, 7-8=-1908/482  
BOT CHORD 2-14=-271/1451, 12-14=-117/1367, 10-12=-116/1367, 8-10=-270/1405  
WEBS 4-14=-6/422, 4-12=-154/582, 5-12=-568/284, 6-12=-155/582, 6-10=-6/422

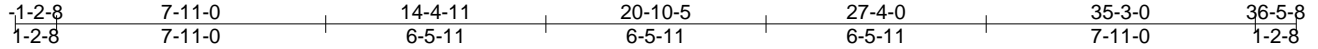
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 9-7-8, Exterior(2) 9-7-8 to 15-10-3, Interior(1) 15-10-3 to 25-7-8, Exterior(2) 25-7-8 to 31-10-3, Interior(1) 31-10-3 to 36-3-15 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) 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 2 and 46 lb uplift at joint 8.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss B5GR	Truss Type Hip Girder	Qty 1	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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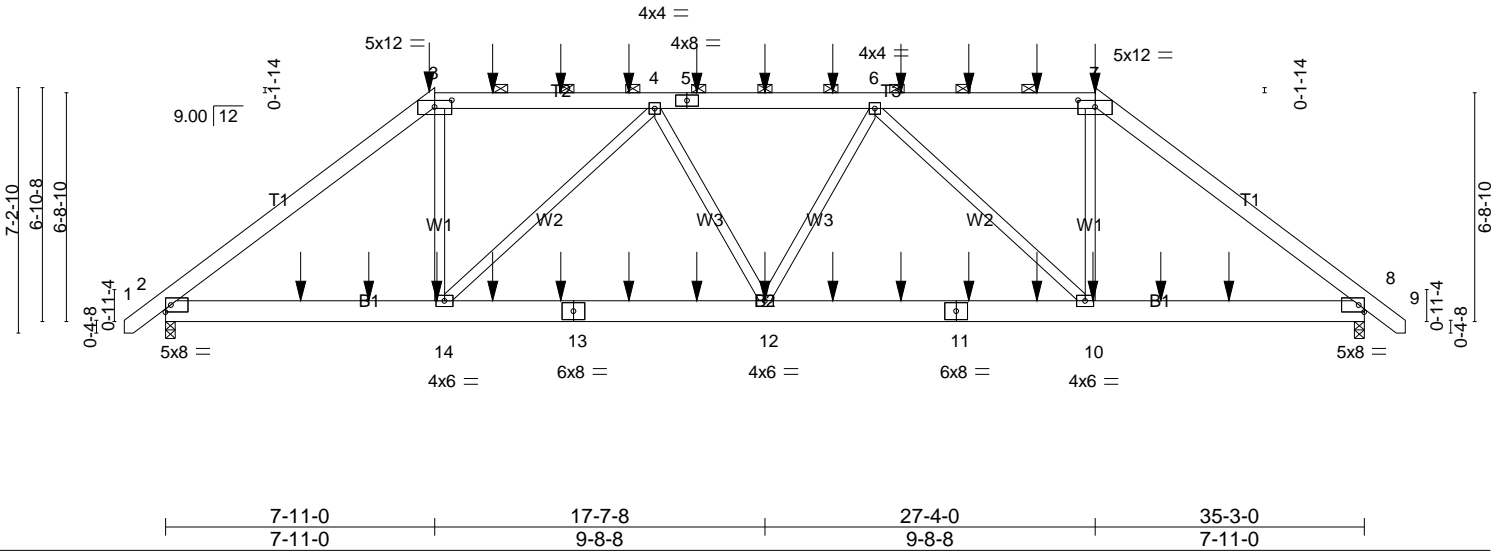


Plate Offsets (X,Y)-- [3:0-6-0,0-2-6], [7:0-6-0,0-2-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	-0.07	12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(CT)	-0.15	12-14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Horz(CT)	0.05	8	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.08	12	>999		
	Code IRC2015/TPI2014						Weight: 539 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
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.): 3-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8 (min. 0-2-1), 8=0-3-8 (min. 0-2-1)  
Max Horz 2=-161(LC 25)  
Max Uplift 2=-928(LC 8), 8=-926(LC 9)  
Max Grav 2=3525(LC 33), 8=3522(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-4866/1294, 3-4=-3802/1102, 4-6=-5137/1391, 6-7=-3798/1099, 7-8=-4861/1291  
BOT CHORD 2-14=-1065/3794, 12-14=-1503/5095, 10-12=-1467/5077, 8-10=-947/3735  
WEBS 3-14=-441/2282, 4-14=-1806/716, 4-12=0/501, 6-12=0/505, 6-10=-1802/713, 7-10=-439/2279

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 928 lb uplift at joint 2 and 926 lb uplift at joint 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	B5GR	Hip Girder	1	2	Job Reference (optional)

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**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 192 lb down and 179 lb up at 7-11-0, 196 lb down and 175 lb up at 9-7-8, 196 lb down and 175 lb up at 11-7-8, 196 lb down and 175 lb up at 13-7-8, 196 lb down and 175 lb up at 15-7-8, 196 lb down and 175 lb up at 17-7-8, 196 lb down and 175 lb up at 19-7-8, 196 lb down and 175 lb up at 21-7-8, 196 lb down and 175 lb up at 23-7-8, and 196 lb down and 175 lb up at 25-7-8, and 192 lb down and 179 lb up at 27-4-0 on top chord, and 429 lb down and 172 lb up at 3-11-12, 285 lb down and 86 lb up at 5-11-12, 114 lb down at 7-11-12, 114 lb down at 9-7-8, 114 lb down at 11-7-8, 114 lb down at 13-7-8, 114 lb down at 15-7-8, 114 lb down at 17-7-8, 114 lb down at 19-7-8, 114 lb down at 21-7-8, 114 lb down at 23-7-8, 114 lb down at 25-7-8, 114 lb down at 27-3-4, and 285 lb down and 86 lb up at 29-3-4, and 429 lb down and 172 lb up at 31-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

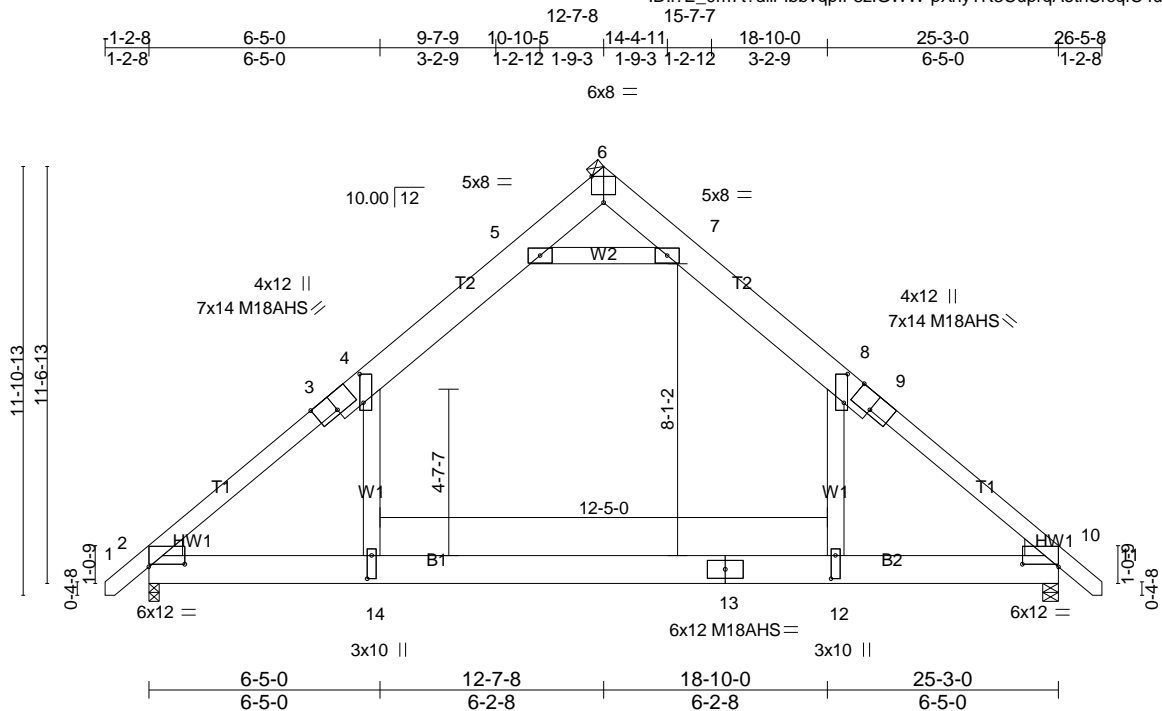
Concentrated Loads (lb)

Vert: 3=-165(B) 5=-165(B) 14=-57(B) 12=-57(B) 10=-57(B) 7=-165(B) 15=-165(B) 16=-165(B) 17=-165(B) 18=-165(B) 19=-165(B) 20=-165(B) 21=-165(B) 22=-165(B) 23=-429(B) 25=-285(B) 26=-57(B) 27=-57(B) 28=-57(B) 29=-57(B) 30=-57(B) 31=-57(B) 32=-57(B) 33=-57(B) 34=-285(B) 36=-429(B)

Job J0522-2459	Truss C1-2P	Truss Type ATTIC	Qty 2	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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Scale: 3/16"=1'

Plate Offsets (X,Y)-- [2:1-0-0,0-0-15], [3:0-7-0,Edge], [4:0-9-9,0-1-4], [6:0-4-0,Edge], [8:0-9-9,0-1-4], [9:0-7-0,Edge], [10:1-0-0,0-0-15], [12:0-7-12,0-1-8], [14:0-7-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	6-0-0	TC 0.89	Vert(LL)	-0.33	12-14	>893	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(CT)	-0.58	12-14	>516	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.02	10	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.11	12-14	>999		
	Code IRC2015/TPI2014						Weight: 500 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP 2400F 2.0E \*Except\*  
T1: 2x6 SP 2400F 2.0E  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x6 SP No.1  
WEDGE  
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

**BRACING-**

TOP CHORD 2-0-0 oc purlins (5-5-4 max.)  
(Switched from sheeted; Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-8 (min. 0-2-1), 10=0-5-4 (min. 0-2-1)  
Max Horz 2=807(LC 11)  
Max Grav 2=5023(LC 20), 10=5047(LC 21)

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

TOP CHORD 2-4=-6892/0, 4-5=-4282/419, 5-6=-47/3128, 6-7=-50/3129, 7-8=-4282/418,  
8-10=-6932/0  
BOT CHORD 2-14=0/4544, 12-14=0/4553, 10-12=0/4542  
WEBS 8-12=0/3378, 4-14=0/3325, 5-7=-8246/583

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 12-7-8, Exterior(2) 12-7-8 to 17-0-5, Interior(1) 17-0-5 to 26-3-14 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 8-12, 4-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	C1-2P	ATTIC	2	<b>2</b>	Job Reference (optional)

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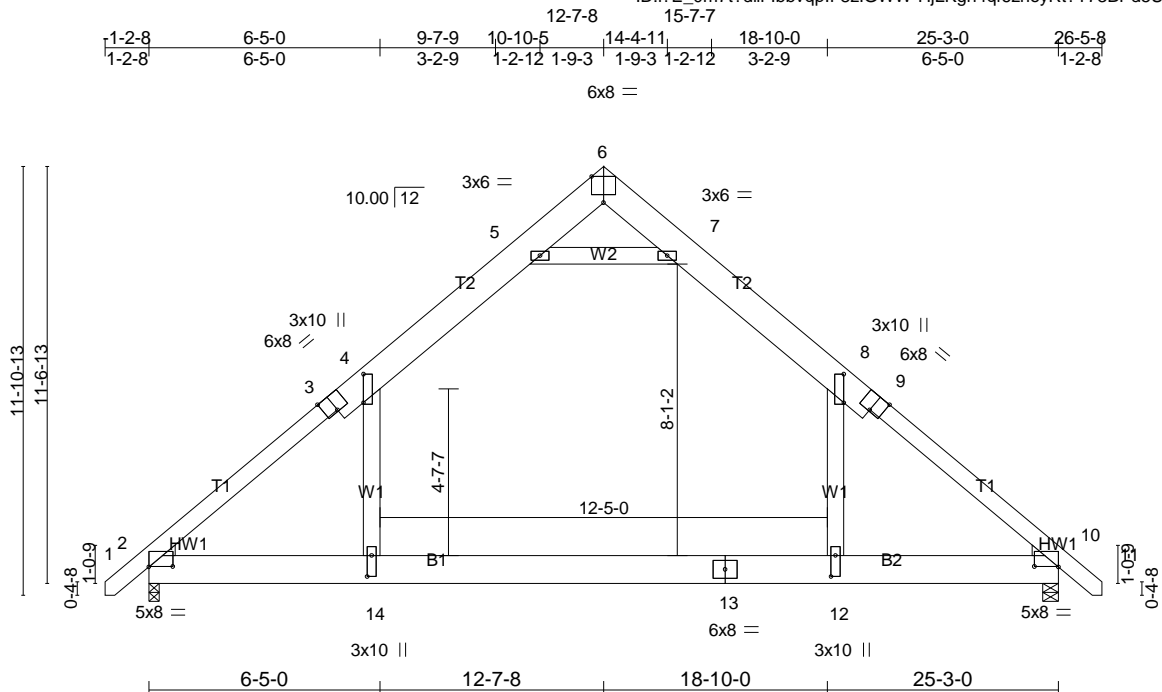
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	C1	Attic	9	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale: 3/16"=1'

Plate Offsets (X,Y)--	[2:0-8-0,0-0-3], [3:0-4-0,Edge], [4:0-9-9,0-0-0], [6:0-4-0,Edge], [8:0-9-9,0-0-0], [9:0-4-0,Edge], [10:0-8-0,0-0-3], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	1-7-3	TC 0.71	Vert(LL)	-0.22	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT)	-0.38	12-14	>784		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.02	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.07	12-14	>999		
	Code IRC2015/TPI2014						Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
T1: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x10 SP No.1	
WEBS 2x6 SP No.1	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-9), 10=0-5-4 (min. 0-1-9)  
Max Horz 2=215(LC 11)  
Max Grav 2=1339(LC 20), 10=1345(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1839/0, 4-5=-1143/112, 5-6=-14/850, 6-7=-14/851, 7-8=-1143/111, 8-10=-1849/0  
BOT CHORD 2-14=0/1213, 12-14=0/1215, 10-12=0/1212  
WEBS 8-12=0/901, 4-14=0/887, 5-7=-2221/157

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - 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) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 12-7-8, Exterior(2) 12-7-8 to 17-0-5, Interior(1) 17-0-5 to 26-3-14 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
  - 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.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 8-12, 4-14
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss C1GR	Truss Type ATTIC	Qty 1	Ply 3	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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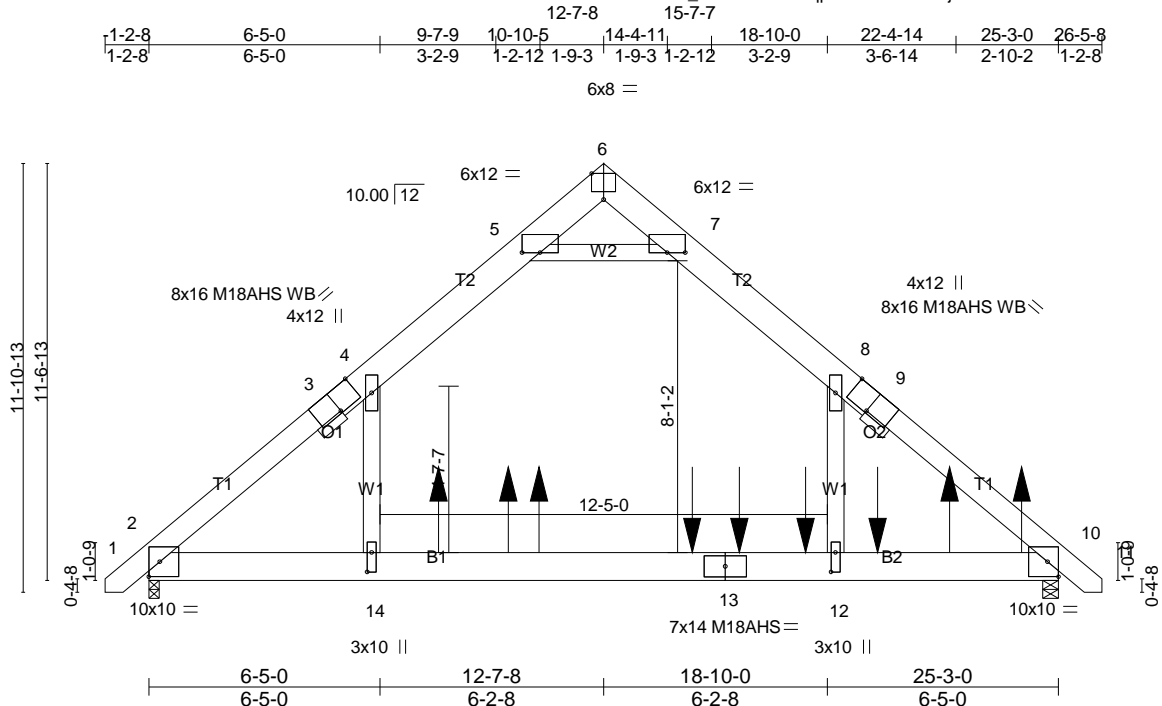


Plate Offsets (X,Y)--	[3:0-8-0,Edge], [5:0-6-0,0-0-0], [6:0-4-0,Edge], [7:0-6-0,0-0-0], [9:0-8-0,Edge], [12:0-6-8,0-1-8], [14:0-6-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) 0.44	12-14	>683	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) 0.58	12-14	>512	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Horz(CT) -0.02	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.33	12-14	>902	240		
							Weight: 787 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP 2400F 2.0E *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T1: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x10 SP 2400F 2.0E	
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-8), 10=0-5-4 (min. 0-1-8)  
 Max Horz 2=-215(LC 6)  
 Max Uplift 2=-3586(LC 31), 10=-8063(LC 30)  
 Max Grav 2=1945(LC 42), 10=3979(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-3393/7169, 4-5=-2092/3849, 5-6=-4122/1697, 6-7=-4660/2037, 7-8=-1773/3311,  
 8-10=-3827/7832  
 BOT CHORD 2-14=-4710/2358, 12-14=-4728/2364, 10-12=-4704/2353  
 WEBS 8-12=-7263/3086, 4-14=-5448/1915, 5-7=-4654/10375

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-4-0 oc.  
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3586 lb uplift at joint 2 and 8063 lb uplift at joint 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	C1GR	ATTIC	1	3	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 446 lb down and 1663 lb up at 8-0-8, 746 lb up at 9-11-12, 1004 lb up at 10-10-0, 990 lb down and 2590 lb up at 15-1-0, 657 lb down and 1432 lb up at 16-4-11, 768 lb down and 1560 lb up at 18-2-12, 850 lb down and 1772 lb up at 20-2-12, and 685 lb down and 2189 lb up at 22-2-12, and 465 lb down and 1341 lb up at 24-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-48, 4-5=-64, 5-6=-48, 6-7=-48, 7-8=-64, 8-11=-48, 2-14=-16, 12-14=-32, 10-12=-16, 5-7=-16

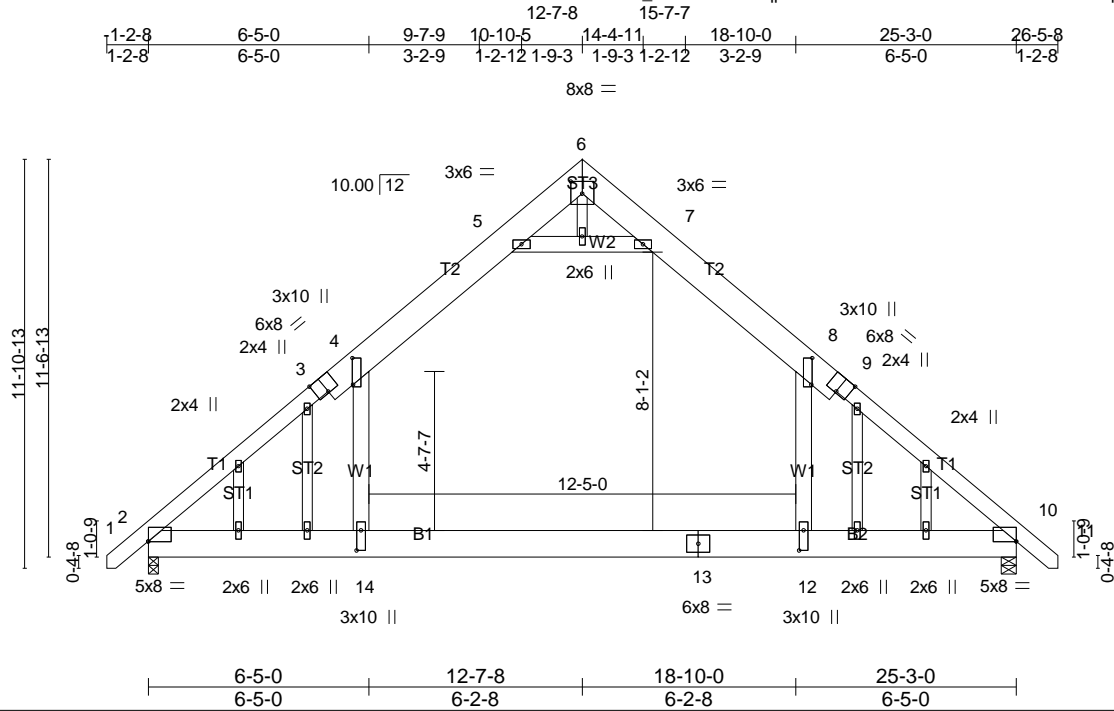
Drag: 8-12=-8, 4-14=-8

Concentrated Loads (lb)

Vert: 15=874(B) 16=309(B) 17=357(B) 18=-436(B) 19=-290(B) 20=-342(B) 21=-284(B) 22=635(B) 23=459(B)

Job J0522-2459	Truss C1SGE	Truss Type GABLE	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 12:59:57 2022 Page 1  
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Scale = 1:67.0

Plate Offsets (X,Y)--	[2:0-0-0,0-0-1], [3:0-4-0,Edge], [4:0-9-5,0-0-4], [6:0-4-0,0-4-4], [8:0-9-5,0-0-4], [9:0-4-0,Edge], [10:0-0-0,0-0-1], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.21	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.37	12-14	>816	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	12-14	>999	240		
							Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
T1: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x10 SP No.1	
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-8), 10=0-5-4 (min. 0-1-8)  
Max Horz 2=-258(LC 10)  
Max Uplift 2=-2(LC 12), 10=-2(LC 13)  
Max Grav 2=1286(LC 20), 10=1292(LC 21)

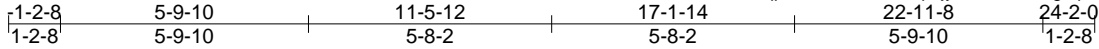
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1777/0, 4-5=-1099/108, 5-6=-33/820, 6-7=-33/821, 7-8=-1099/107, 8-10=-1787/0  
BOT CHORD 2-14=0/1183, 12-14=0/1185, 10-12=0/1182  
WEBS 8-12=0/866, 4-14=0/852, 5-7=-2123/151

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 12-7-8, Exterior(2) 12-7-8 to 17-0-5, Interior(1) 17-0-5 to 26-3-14 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 8-12, 4-14
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2 and 2 lb uplift at joint 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Attic room checked for L/360 deflection.

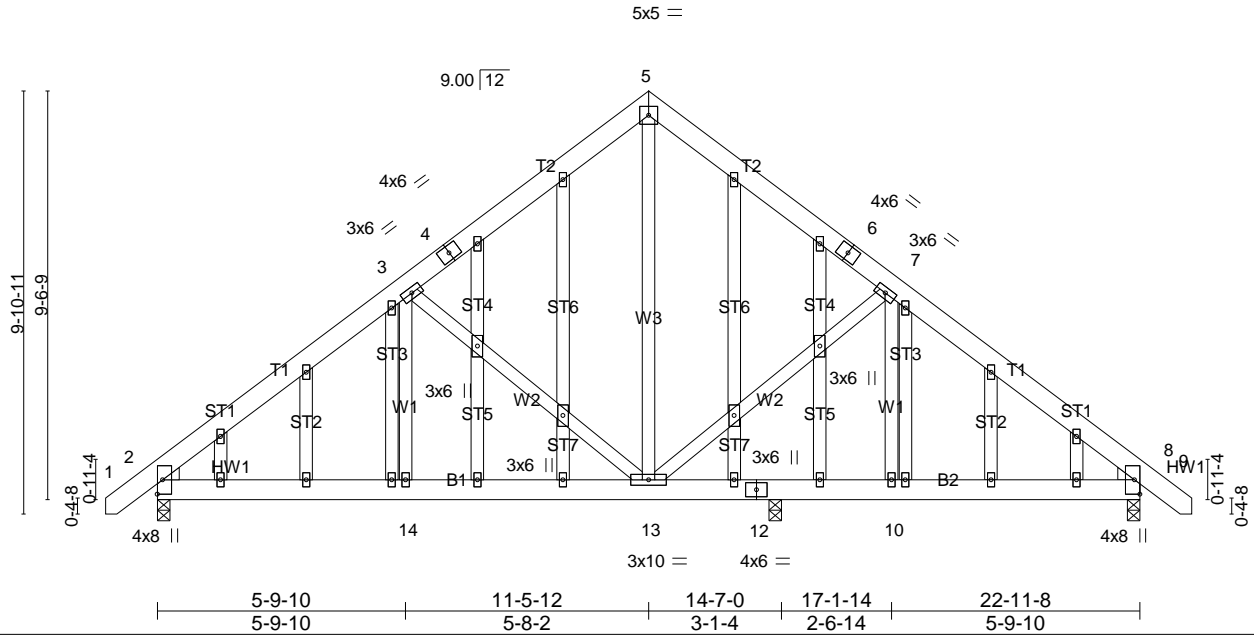
**LOAD CASE(S)** Standard

Job J0522-2459	Truss D1SGE	Truss Type GABLE	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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Scale = 1:53.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.02 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.04 13-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 8-10 >999 240	Weight: 237 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 OTHERS 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-8), 8=0-3-8 (min. 0-1-8), 11=0-3-8 (min. 0-1-8)  
 Max Horz 2=-282(LC 10)  
 Max Uplift 2=-186(LC 12), 8=-182(LC 13), 11=-38(LC 12)  
 Max Grav 2=880(LC 1), 8=809(LC 1), 11=271(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1056/305, 3-5=-673/340, 5-7=-674/343, 7-8=-905/472  
 BOT CHORD 2-14=-201/814, 13-14=-201/814, 11-13=-247/620, 10-11=-247/620, 8-10=-247/620  
 WEBS 5-13=-237/477, 7-13=-323/378, 3-13=-500/275, 3-14=0/272

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 11-5-12, Exterior(2) 11-5-12 to 15-10-9, Interior(1) 15-10-9 to 24-0-7 zone; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 2, 182 lb uplift at joint 8 and 38 lb uplift at joint 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	D2GR	Common Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 1-6=-20

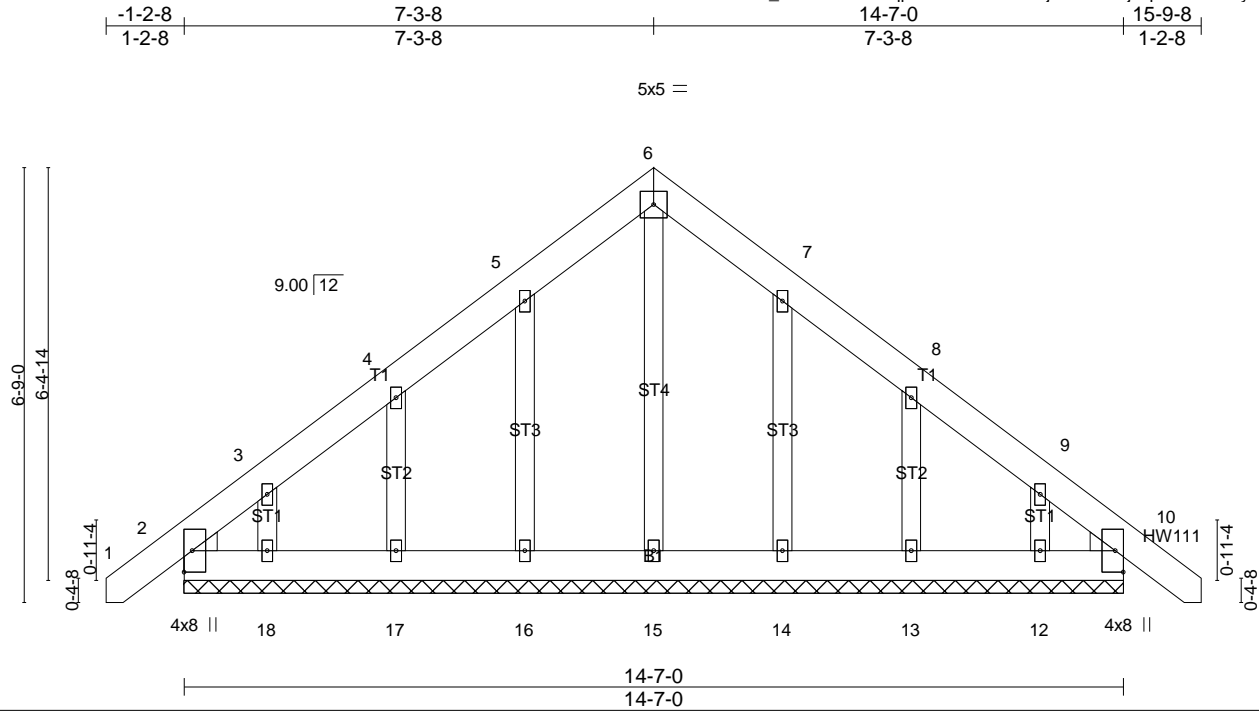
Concentrated Loads (lb)

Vert: 8=-174(F) 13=-1383(F) 14=-1385(F) 15=-1382(F) 16=-1382(F) 17=-1382(F) 18=-1382(F) 19=-1382(F) 20=-174(F) 21=-174(F) 22=-174(F) 23=-179(F)

Job J0522-2459	Truss E1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:35.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) -0.00 10 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 10 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 116 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 14-7-0.  
(lb) - Max Horz 2=-188(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 14 except 17=-110(LC 12), 18=-118(LC 12), 13=-111(LC 13), 12=-110(LC 13)  
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-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-15 to 3-3-8, Exterior(2) 3-3-8 to 7-3-8, Corner(3) 7-3-8 to 11-8-5, Exterior(2) 11-8-5 to 15-7-15 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 14 except (jt=lb) 17=110, 18=118, 13=111, 12=110.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	F1	Common	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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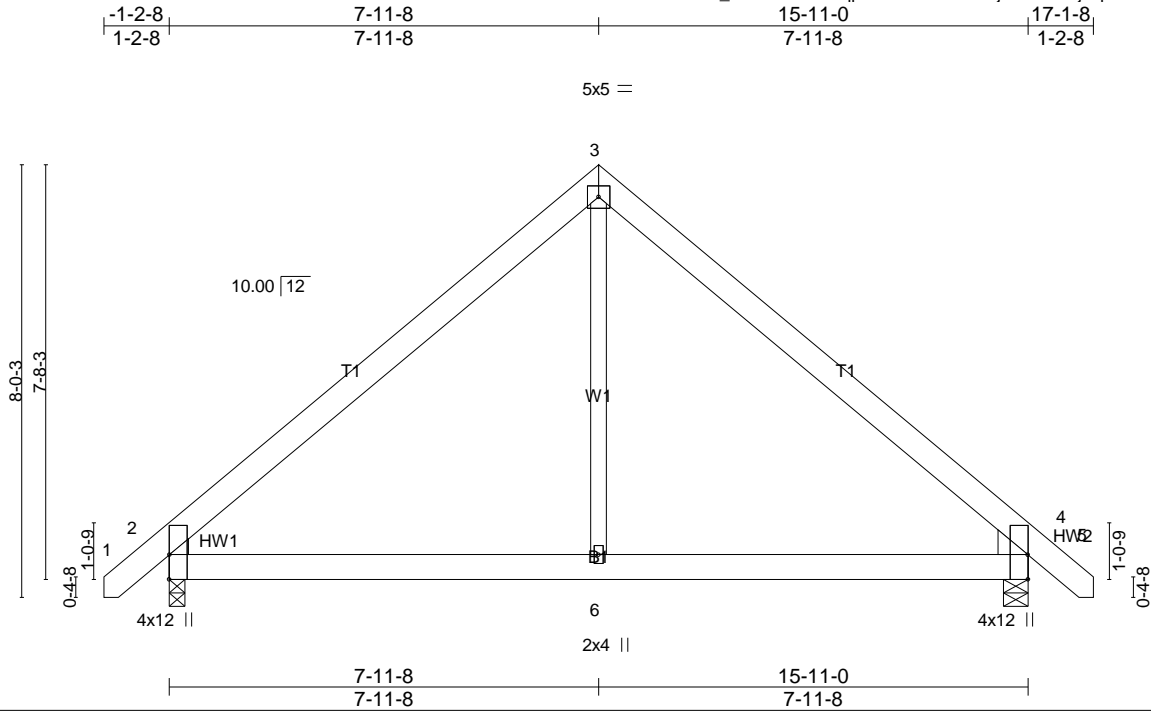


Plate Offsets (X,Y)-- [2:Edge,0-0-1], [4:Edge,0-0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	-0.03	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.06	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	2-6	>999		
	Code IRC2015/TPI2014						Weight: 106 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-8), 4=0-5-8 (min. 0-1-8)

Max Horz 2=-180(LC 10)  
 Max Uplift 2=-42(LC 12), 4=-42(LC 13)  
 Max Grav 2=802(LC 19), 4=808(LC 20)

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

TOP CHORD 2-3=-861/174, 3-4=-864/176  
 BOT CHORD 2-6=0/576, 4-6=0/576  
 WEBS 3-6=0/590

**NOTES-**

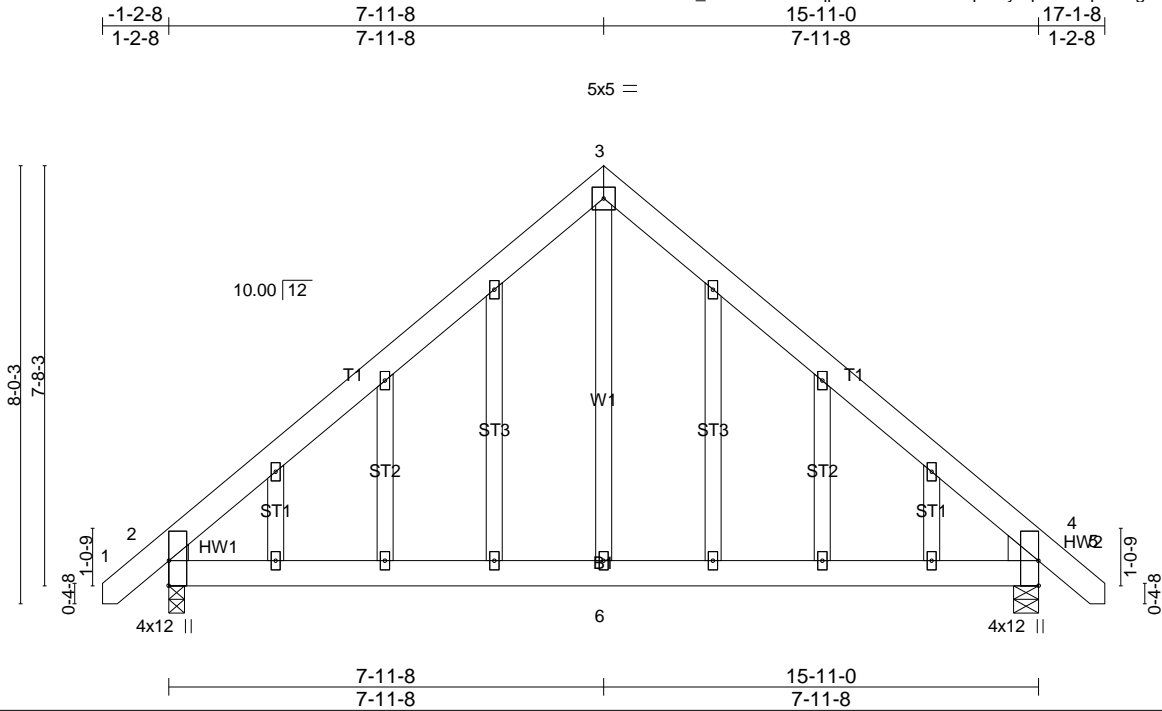
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-11-14 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss F1GE	Truss Type GABLE	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:42.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL) -0.03	2-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT) -0.06	2-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.04	2-6	>999	240		
	Code IRC2015/TPI2014						Weight: 136 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=0-3-8 (min. 0-1-8), 4=0-5-8 (min. 0-1-8)

Max Horz 2=-226(LC 10)  
 Max Uplift 2=-141(LC 12), 4=-142(LC 13)  
 Max Grav 2=801(LC 19), 4=807(LC 20)

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

TOP CHORD 2-3=-866/190, 3-4=-869/190  
 BOT CHORD 2-6=-10/592, 4-6=-10/592  
 WEBS 3-6=0/590

**NOTES-**

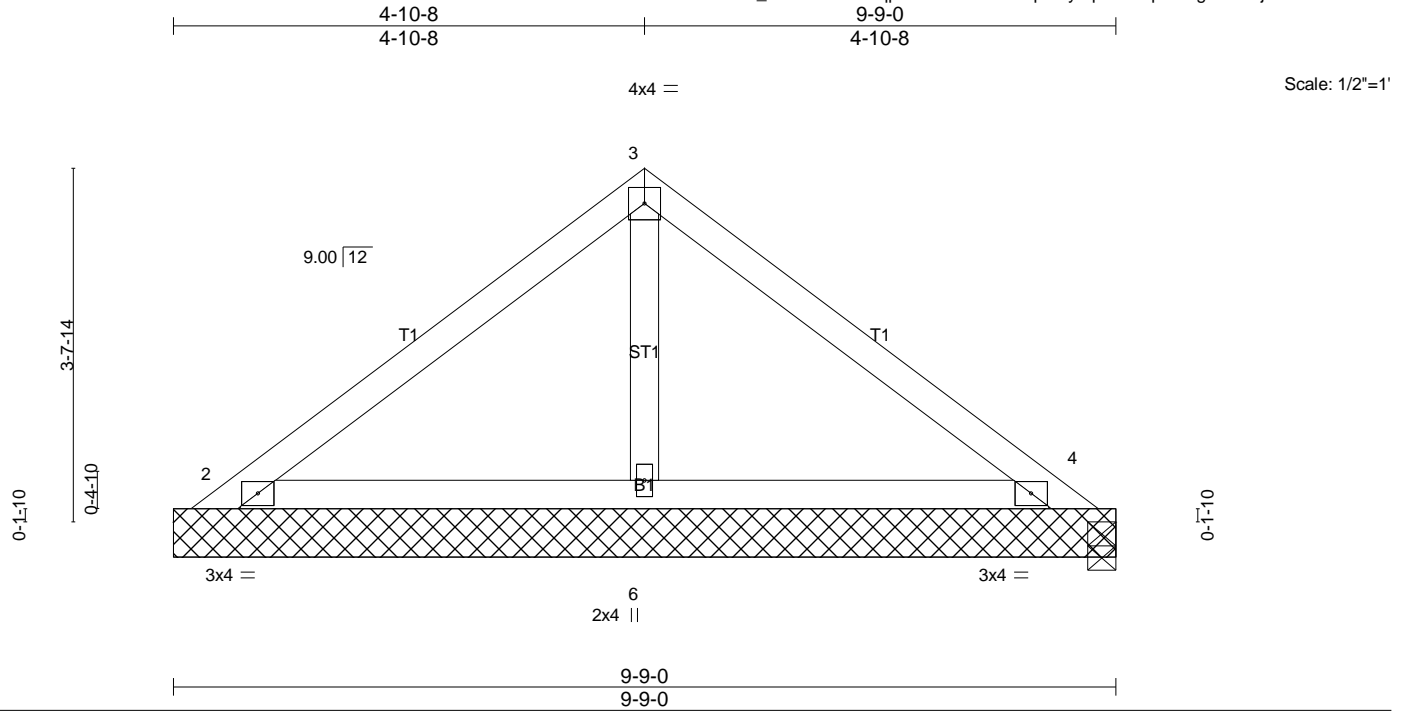
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-14 to 3-3-14, Exterior(2) 3-3-14 to 7-11-8, Corner(3) 7-11-8 to 12-4-5, Exterior(2) 12-4-5 to 16-11-14 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) 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 4=142.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss PA1	Truss Type Piggyback	Qty 15	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	-0.01	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.01	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	6	****	Weight: 35 lb	FT = 20%
	Code IRC2015/TPI2014							

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 9-9-0.  
(lb) - Max Horz 1=-85(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) except 1=-315(LC 19), 5=-215(LC 20), 5=-190(LC 1), 2=-240(LC 12), 4=-189(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=545(LC 19), 4=464(LC 20), 6=261(LC 3)

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

**NOTES-**

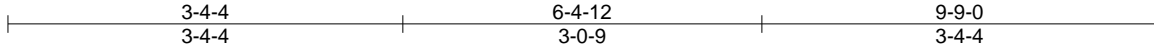
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-15 to 9-0-11, Interior(1) 9-0-11 to 9-7-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 1, 215 lb uplift at joint 5, 240 lb uplift at joint 2 and 189 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss PA2	Truss Type Piggyback	Qty 1	Ply 2	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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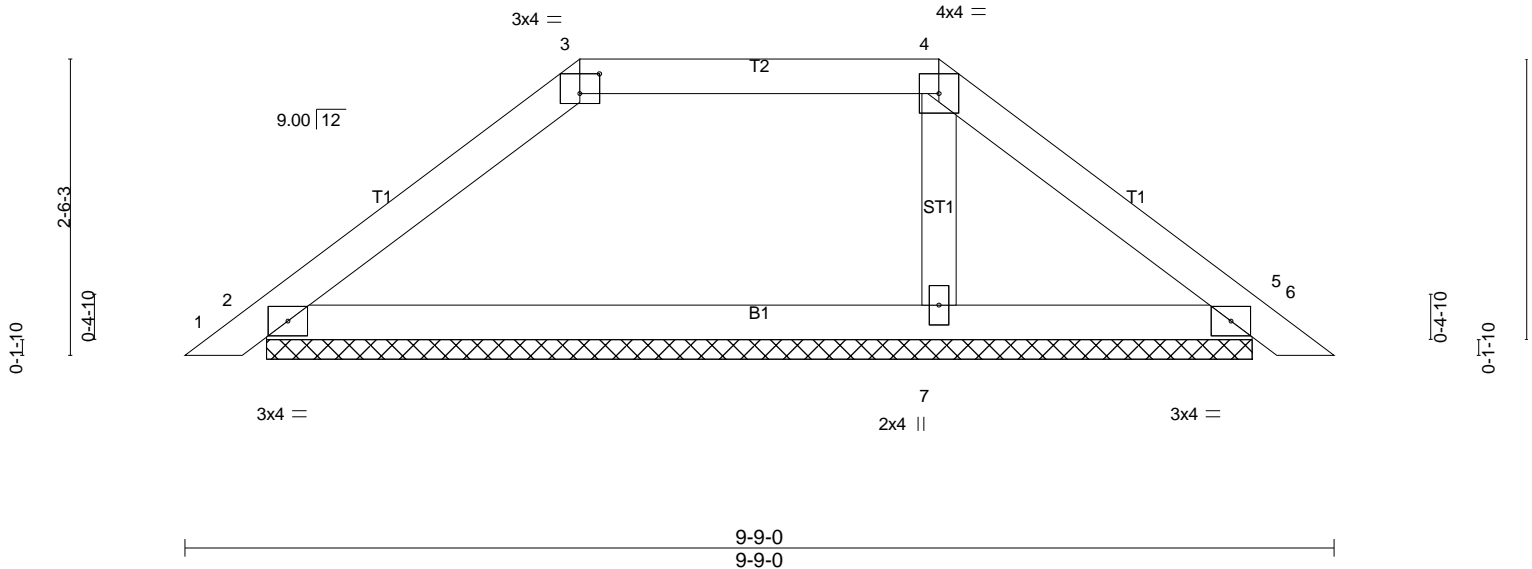


Plate Offsets (X,Y)--	[3:0-2-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL) 0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT) 0.00	6	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**REACTIONS.** (size) 2=8-4-5 (min. 0-1-8), 5=8-4-5 (min. 0-1-8), 7=8-4-5 (min. 0-1-8)  
 Max Horz 2=-57(LC 10)  
 Max Uplift 2=-46(LC 12), 5=-59(LC 12)  
 Max Grav 2=323(LC 1), 5=279(LC 1), 7=236(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-312/213, 4-5=-311/212

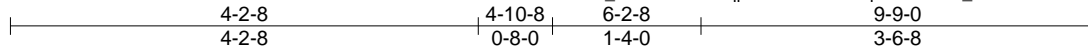
- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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; 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
  - Provide adequate drainage to prevent water ponding.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2 and 59 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	PA3	Piggyback	1	1	Job Reference (optional)

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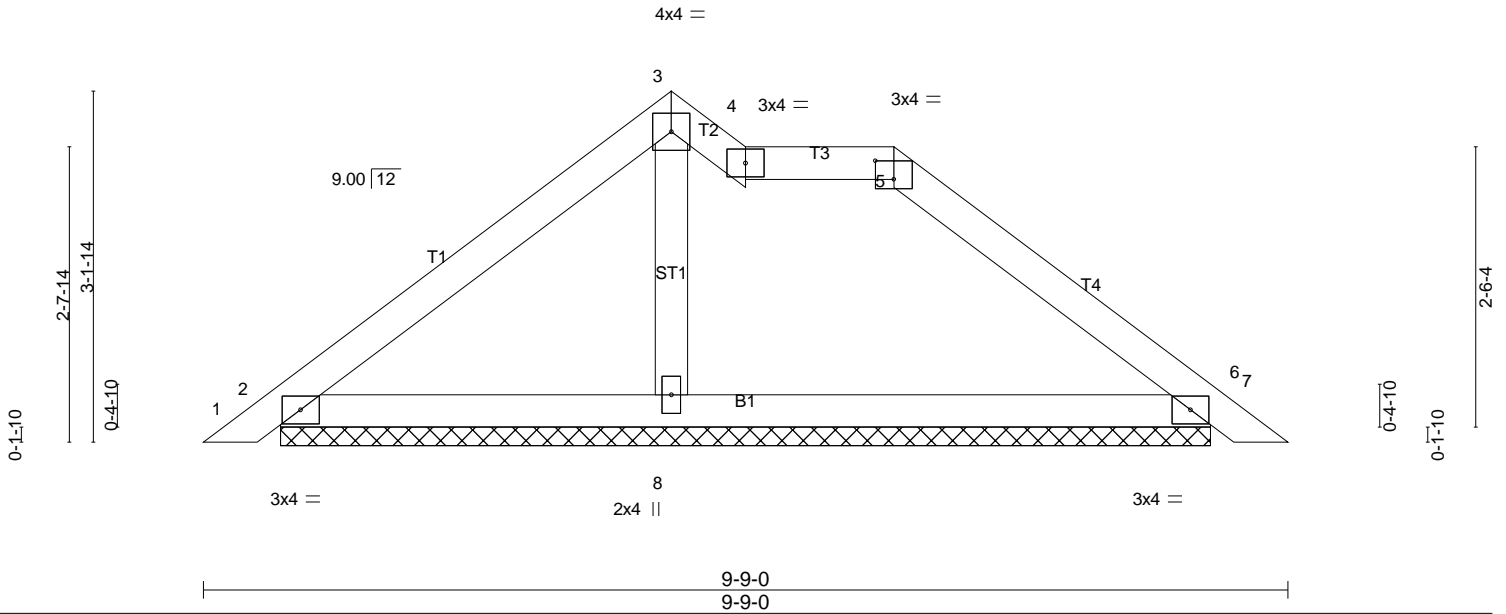


Plate Offsets (X,Y)-- [5:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	0.00	7	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	0.01	7	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 34 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=8-4-5 (min. 0-1-8), 6=8-4-5 (min. 0-1-8), 8=8-4-5 (min. 0-1-8)  
Max Horz 2=-71(LC 10)  
Max Uplift 2=-69(LC 13), 6=-72(LC 13), 8=-12(LC 9)  
Max Grav 2=292(LC 1), 6=321(LC 24), 8=192(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-318/202, 5-6=-328/203

**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) 0-2-15 to 4-10-8, Interior(1) 4-10-8 to 6-2-8, Exterior(2) 6-2-8 to 9-6-1 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) Provide adequate drainage to prevent water ponding.
- 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 69 lb uplift at joint 2, 72 lb uplift at joint 6 and 12 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss PA4	Truss Type Piggyback	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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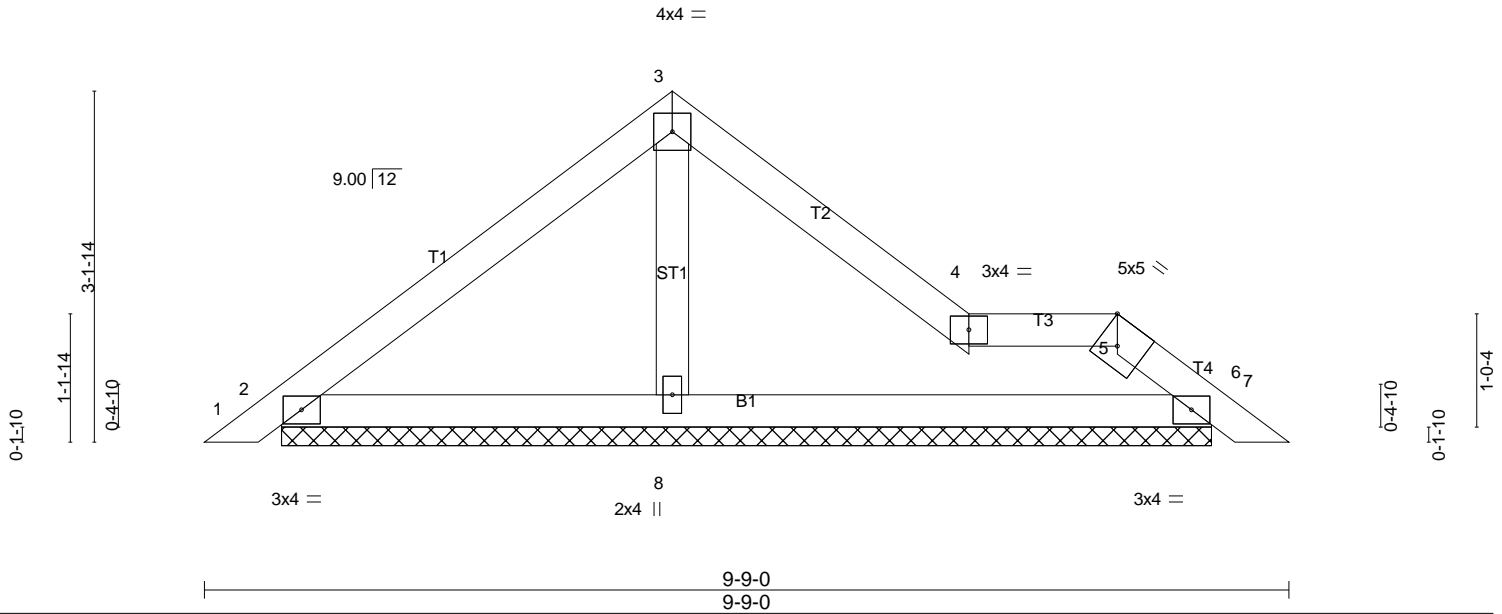


Plate Offsets (X,Y)-- [5:Edge,0-2-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	0.01	7	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	0.02	7	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 34 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 9-9-0 oc purlins, except 2-0-0 oc purlins: 4-5.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 2=8-4-5 (min. 0-1-8), 6=8-4-5 (min. 0-1-8), 8=8-4-5 (min. 0-1-8)  
 Max Horz 2=-71(LC 10)  
 Max Uplift 2=-87(LC 24), 8=-105(LC 13)  
 Max Grav 2=112(LC 23), 6=106(LC 1), 8=608(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-165/273, 3-4=-142/285  
 WEBS 3-8=-474/299

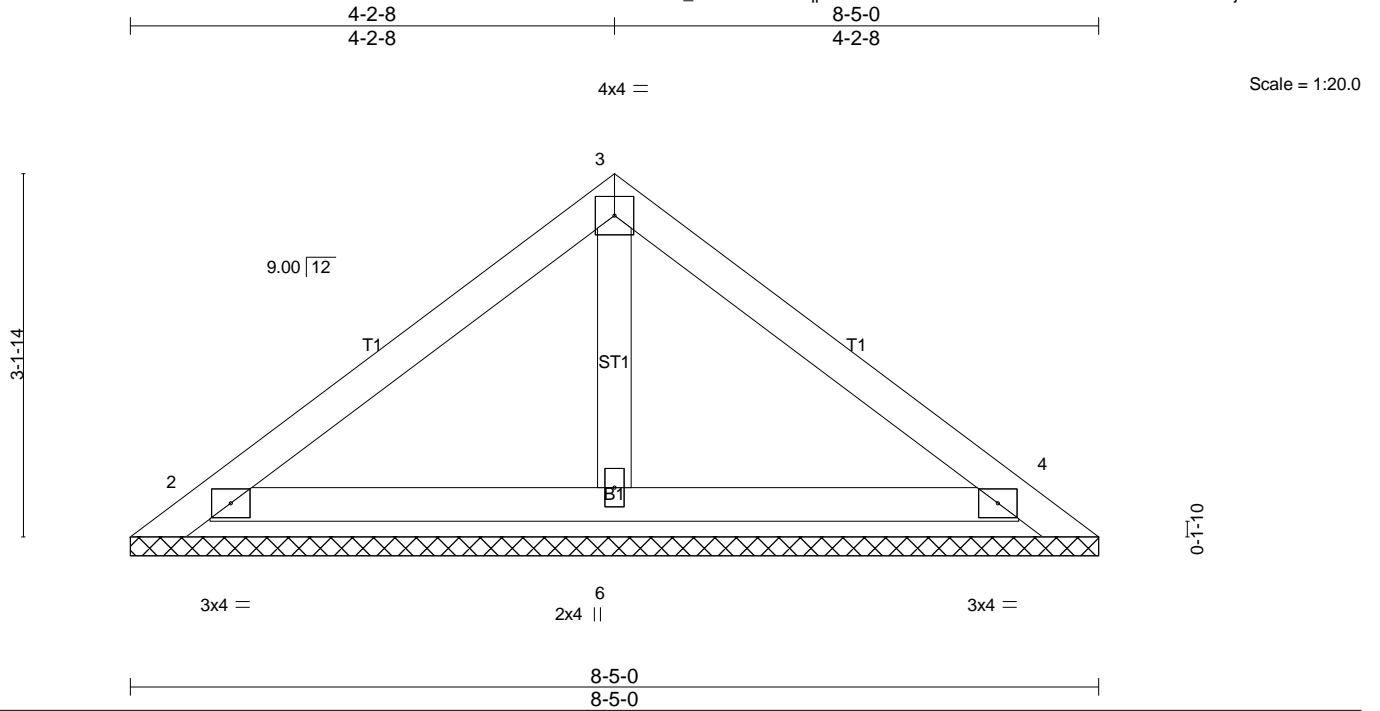
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-15 to 6-10-8, Interior(1) 6-10-8 to 8-2-8, Exterior(2) 8-2-8 to 9-6-1 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) Provide adequate drainage to prevent water ponding.
  - 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 87 lb uplift at joint 2 and 105 lb uplift at joint 8.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss PB1	Truss Type GABLE	Qty 5	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-5-0.  
(lb) - Max Horz 1=-71(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) except 1=-219(LC 19), 5=-186(LC 20),  
2=-178(LC 12), 4=-162(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=418(LC 19),  
4=395(LC 20)

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

**NOTES-**

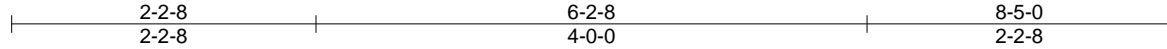
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 1, 186 lb uplift at joint 5, 178 lb uplift at joint 2 and 162 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss PB2	Truss Type GABLE	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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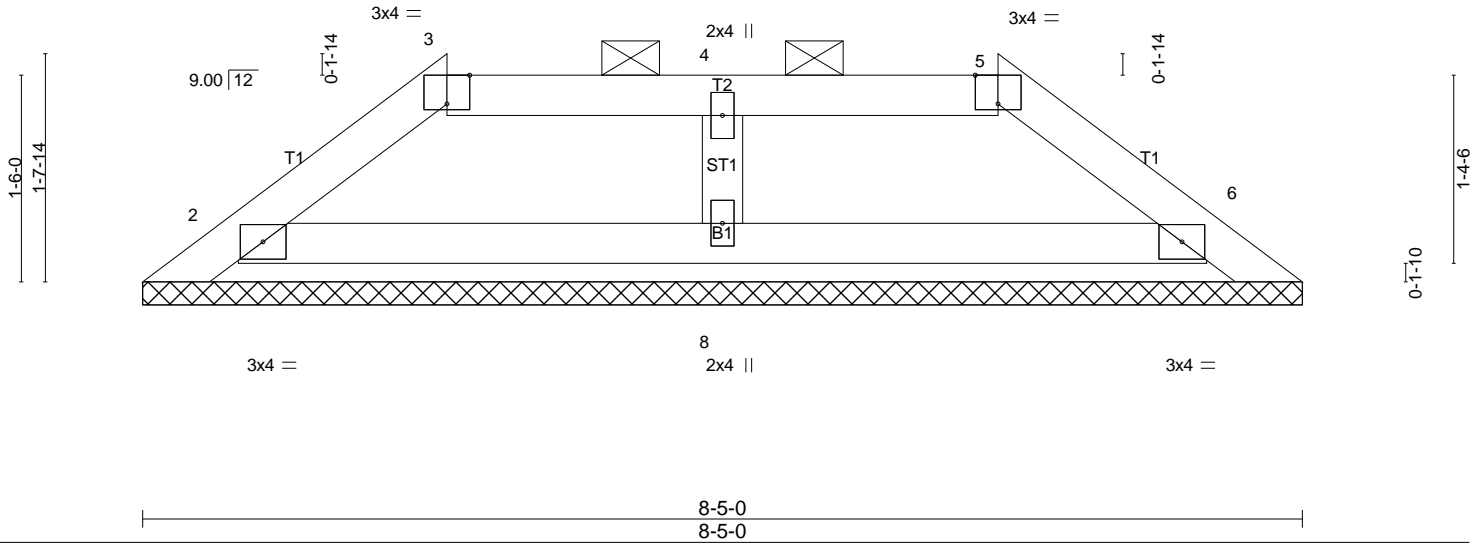


Plate Offsets (X,Y)--	[3:0-2-0,Edge], [5:0-2-0,Edge]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 26 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-5-0.  
(lb) - Max Horz 1=33(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 8  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8 except 2=253(LC 23), 6=253(LC 24)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Job J0522-2459	Truss V1	Truss Type Valley	Qty 1	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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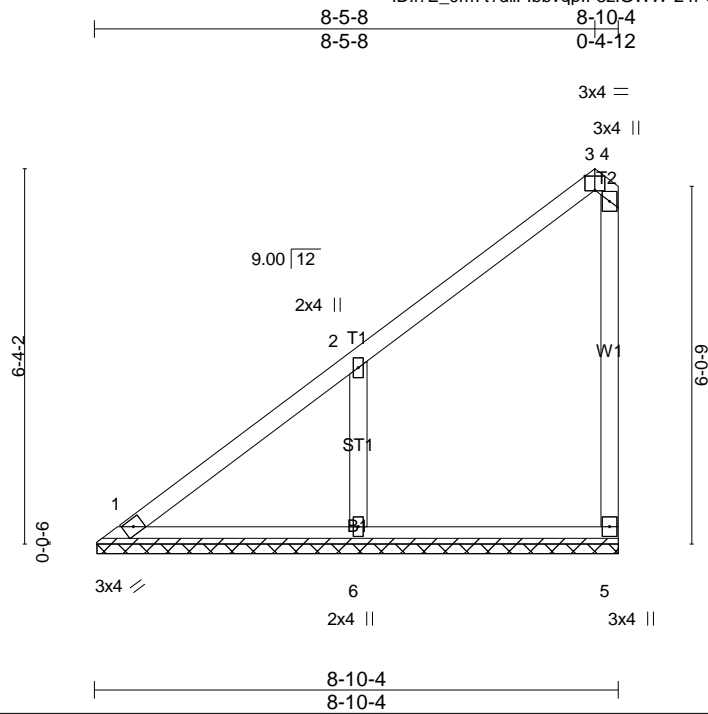


Plate Offsets (X,Y)-- [3:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 42 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 1=8-9-12 (min. 0-1-8), 5=8-9-12 (min. 0-1-8), 6=8-9-12 (min. 0-1-8)  
Max Horz 1=221(LC 9)  
Max Uplift 1=-12(LC 8), 5=-40(LC 9), 6=-130(LC 12)  
Max Grav 1=163(LC 20), 5=237(LC 19), 6=502(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-374/358  
WEBS 2-6=-417/307

**NOTES-**

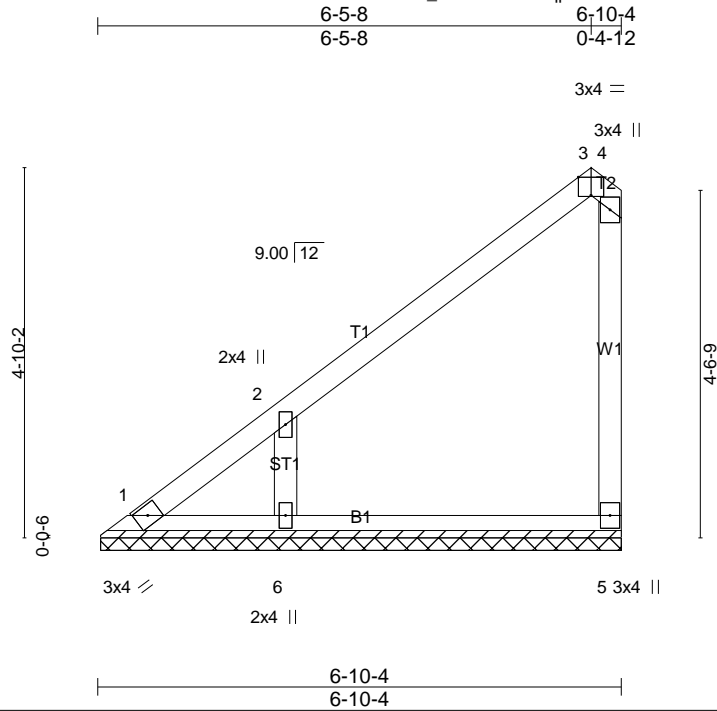
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-5-8, Exterior(2) 8-5-8 to 8-8-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 5 except (jt=lb) 6=130.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss V2	Truss Type Valley	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 30 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 1=6-9-12 (min. 0-1-8), 5=6-9-12 (min. 0-1-8), 6=6-9-12 (min. 0-1-8)

Max Horz 1=165(LC 9)  
Max Uplift 1=-38(LC 10), 5=-34(LC 9), 6=-104(LC 12)  
Max Grav 1=94(LC 9), 5=163(LC 19), 6=353(LC 19)

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

TOP CHORD 1-2=-326/298  
WEBS 2-6=-353/281

**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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-5-8, Exterior(2) 6-5-8 to 6-8-8 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) 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) 6=104.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss V3	Truss Type Valley	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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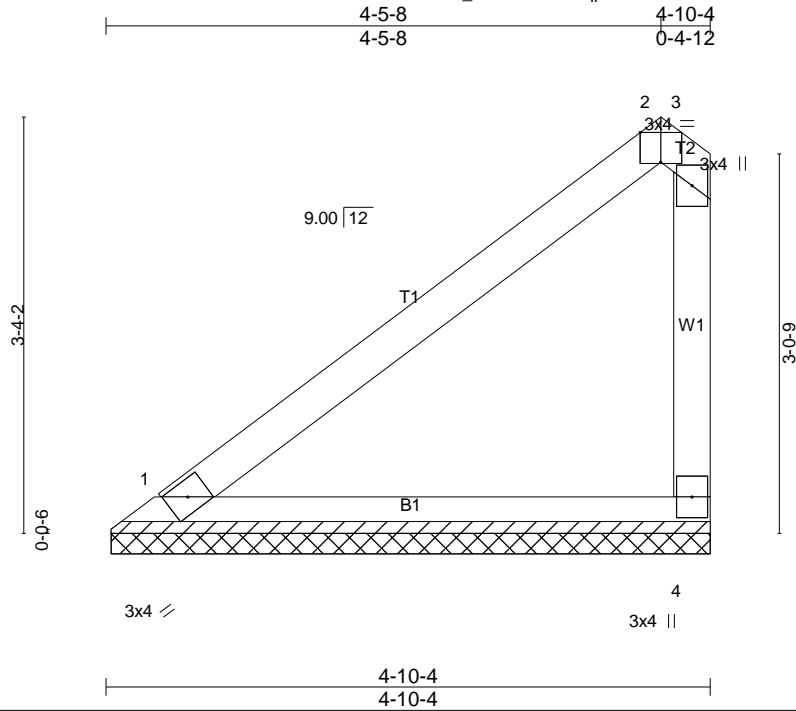


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 20 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 1=4-9-12 (min. 0-1-8), 4=4-9-12 (min. 0-1-8)

Max Horz 1=109(LC 9)  
Max Uplift 1=-3(LC 12), 4=-31(LC 12)  
Max Grav 1=171(LC 1), 4=186(LC 19)

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

**NOTES-**

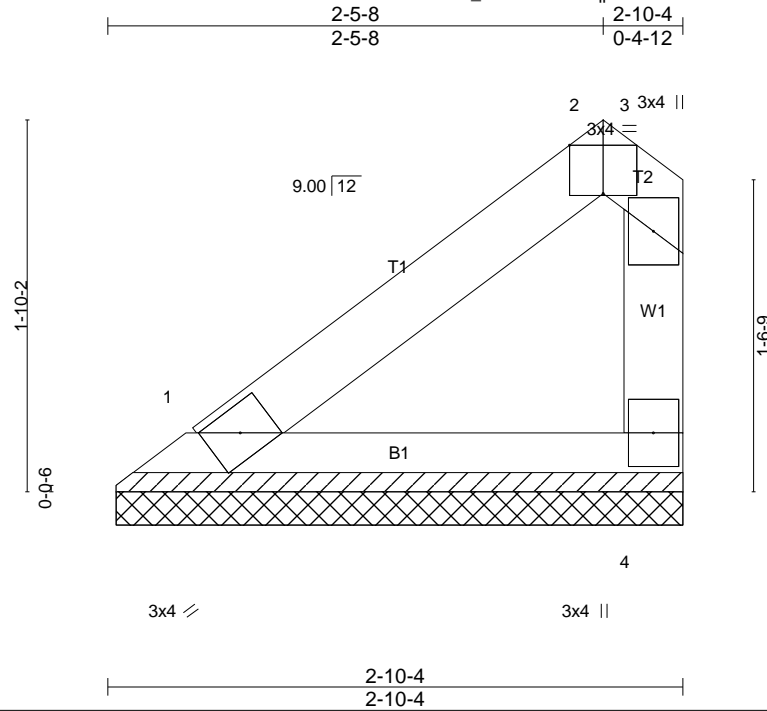
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss V4	Truss Type Valley	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:11.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R						
							Weight: 11 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 1=2-9-12 (min. 0-1-8), 4=2-9-12 (min. 0-1-8)  
Max Horz 1=54(LC 9)  
Max Uplift 1=2(LC 12), 4=14(LC 12)  
Max Grav 1=91(LC 1), 4=96(LC 19)

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

**NOTES-**

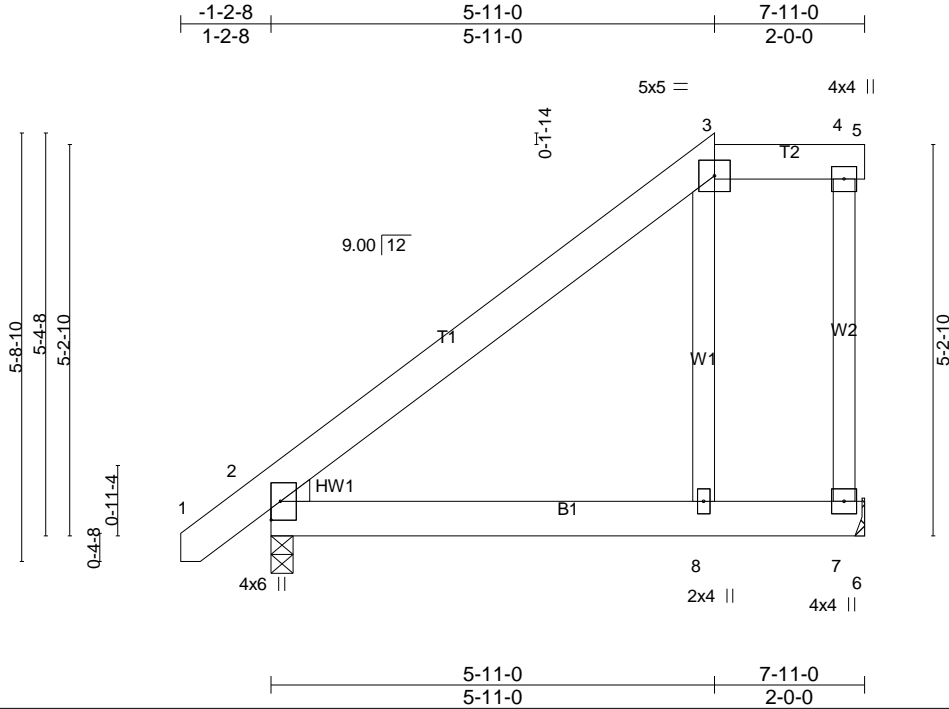
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss W1	Truss Type Half Hip	Qty 2	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.03	2-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.07	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	2-8	>999	240	Weight: 58 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 7=Mechanical, 2=0-3-8 (min. 0-1-8)  
Max Horz 2=182(LC 9)  
Max Uplift 7=66(LC 9), 2=-25(LC 12)  
Max Grav 7=305(LC 1), 2=379(LC 1)

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

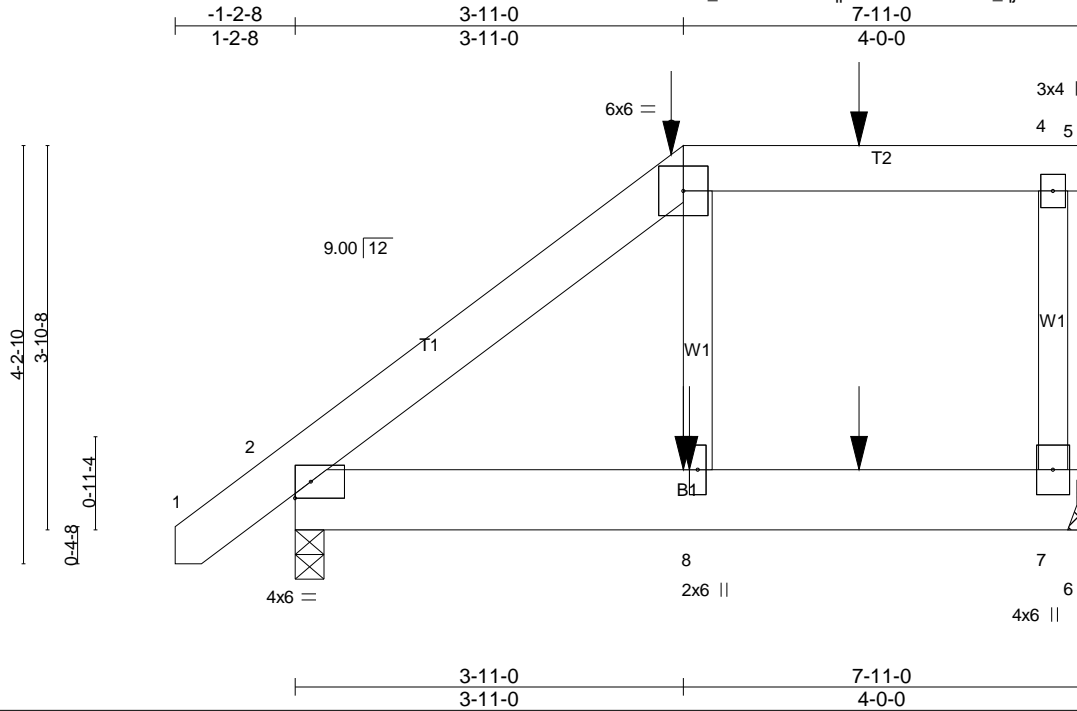
**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 5-11-0, Exterior(2) 5-11-0 to 7-11-0 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0522-2459	Truss W1A	Truss Type Half Hip Girder	Qty 2	Ply 1	FLORENCE, STACI & JASON
Comtech, Inc., Fayetteville, NC 28309, Bob Lewis					Job Reference (optional)

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Scale = 1:23.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL) -0.03	8	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(CT) -0.07	8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT) -0.00	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL) 0.05	8	>999	240		
	Code IRC2015/TPI2014						Weight: 58 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 7=Mechanical, 2=0-3-8 (min. 0-1-8)  
Max Horz 2=132(LC 5)  
Max Uplift 7=-152(LC 5), 2=-107(LC 8)  
Max Grav 7=449(LC 1), 2=499(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); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=152, 2=107.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 100 lb up at 3-11-0, and 106 lb down and 96 lb up at 5-8-4 on top chord, and 188 lb down and 76 lb up at 3-11-0, and 34 lb down at 5-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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

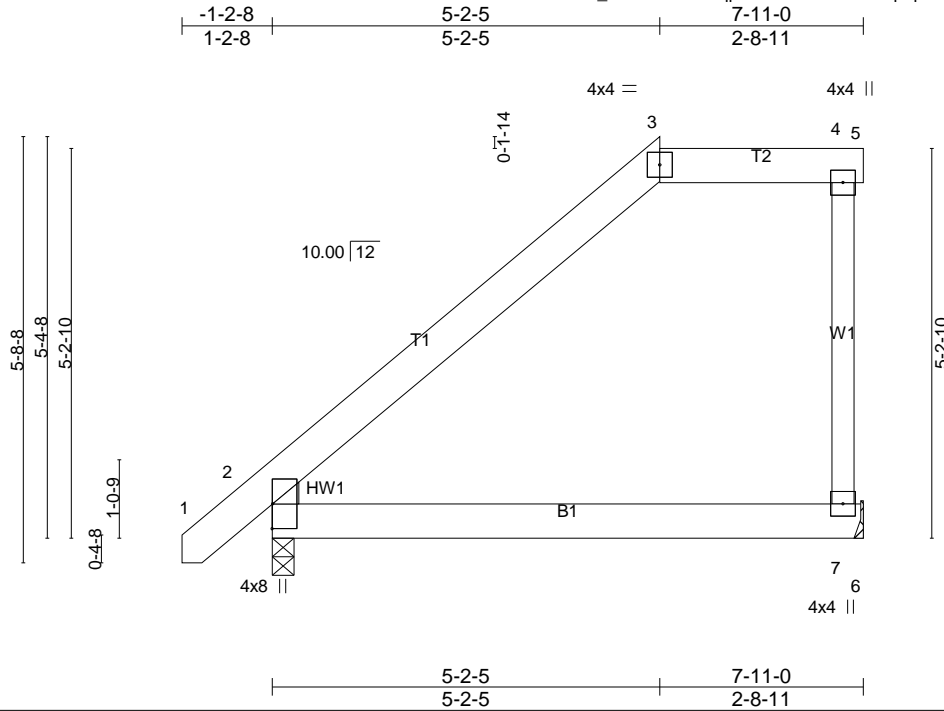
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-60, 2-7=-20  
Concentrated Loads (lb)  
Vert: 3=-39(F) 8=-179(F) 9=-39(F) 10=-17(F)



Job J0522-2459	Truss W2A	Truss Type Half Hip	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:00:58 2022 Page 1  
ID:!?E\_0m7t?dIFlbbvqplF8zIGWW-xre9vKqLqTvlrdm\_CHlqFhkyuLrZa8k0hUMMIKzIEep



Scale = 1:30.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL) -0.04	2-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT) -0.08	2-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00	7	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Wind(LL) 0.02	2-7	>999	240		
	Code IRC2015/TPI2014						Weight: 52 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 7=Mechanical, 2=0-3-8 (min. 0-1-8)  
Max Horz 2=182(LC 9)  
Max Uplift 7=-72(LC 9), 2=-23(LC 12)  
Max Grav 7=398(LC 19), 2=379(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 5-2-5, Exterior(2) 5-2-5 to 7-11-0 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
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

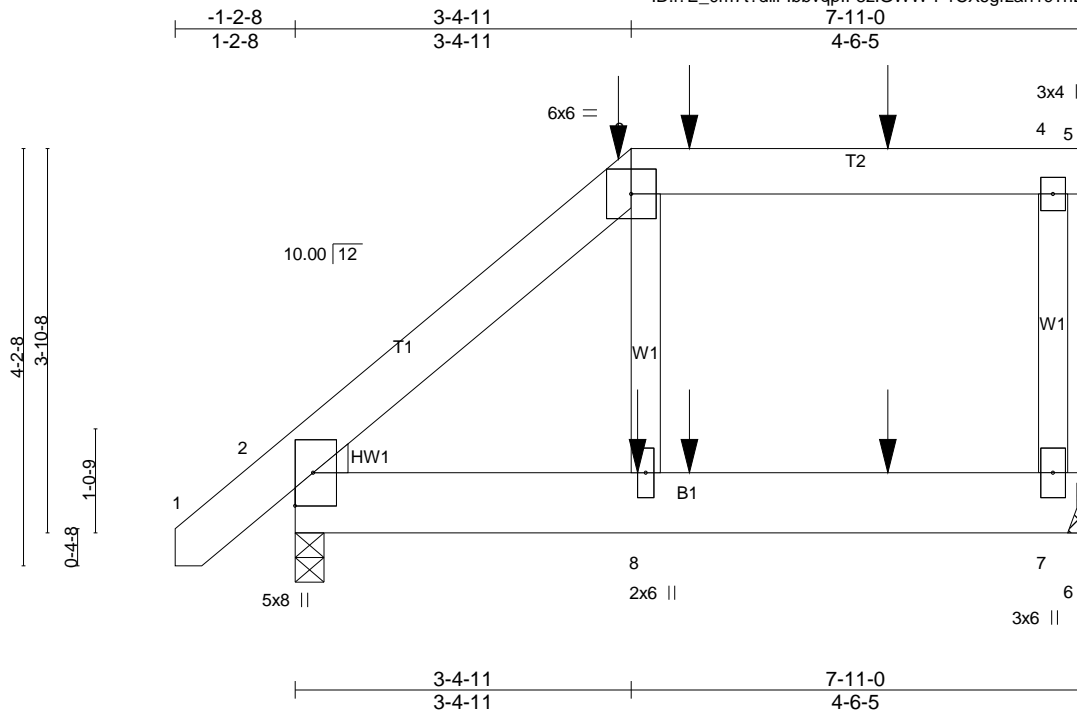
**LOAD CASE(S)** Standard



Job J0522-2459	Truss W2B	Truss Type Half Hip Girder	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:00:59 2022 Page 1  
ID:!?E\_0m7t?diiFlbbvqplF8ziGWW-P1CX6grzan1cTnLAL\_G3nvG8ikADJbOAw86vImziEeo



Scale = 1:23.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) 0.04 8 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.05 8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 58 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 7=Mechanical, 2=0-3-8 (min. 0-1-8)  
Max Horz 2=132(LC 20)  
Max Uplift 7=-145(LC 5), 2=-103(LC 8)  
Max Grav 7=391(LC 1), 2=451(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); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=145, 2=103.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 100 lb up at 3-4-11, and 104 lb down and 96 lb up at 3-11-12, and 106 lb down and 96 lb up at 5-11-12 on top chord, and 34 lb down at 3-5-7, and 34 lb down at 3-11-12, and 34 lb down at 5-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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=-60, 2-7=-20

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	W2B	Half Hip Girder	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:00:59 2022 Page 2  
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**LOAD CASE(S)** Standard

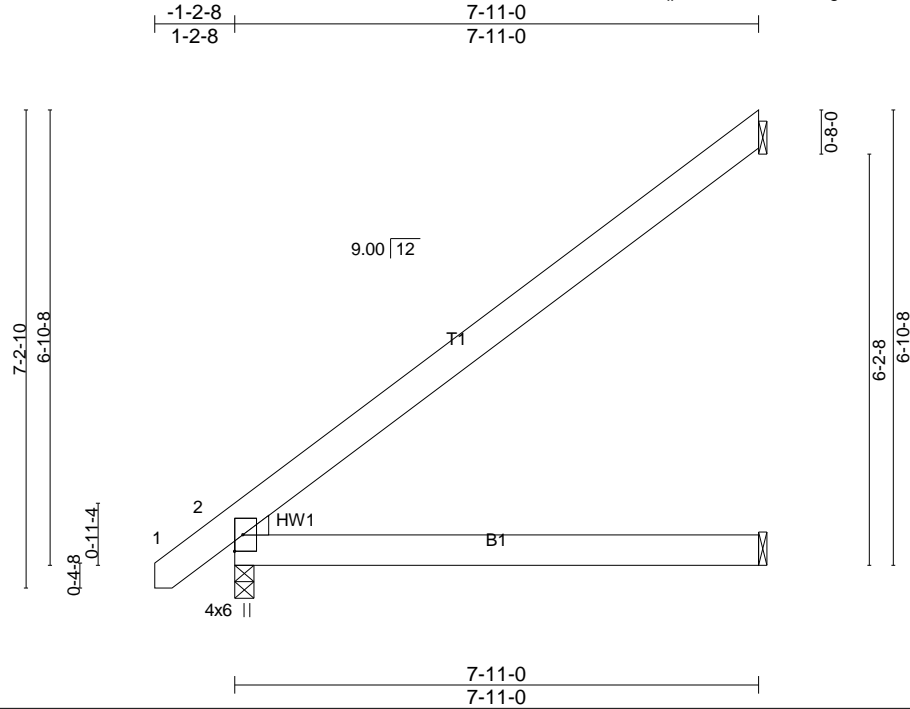
Concentrated Loads (lb)

Vert: 3=-39(B) 8=-17(B) 9=-39(B) 10=-39(B) 11=-17(B) 12=-17(B)

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	X1	Jack-Partial	11	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:00:59 2022 Page 1  
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Scale = 1:34.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL) -0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT) -0.10	2-4	>969	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2015/TPI2014						Weight: 46 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=216(LC 12)  
Max Uplift 3=-162(LC 12)  
Max Grav 3=258(LC 19), 2=387(LC 1), 4=154(LC 3)

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

**NOTES-**

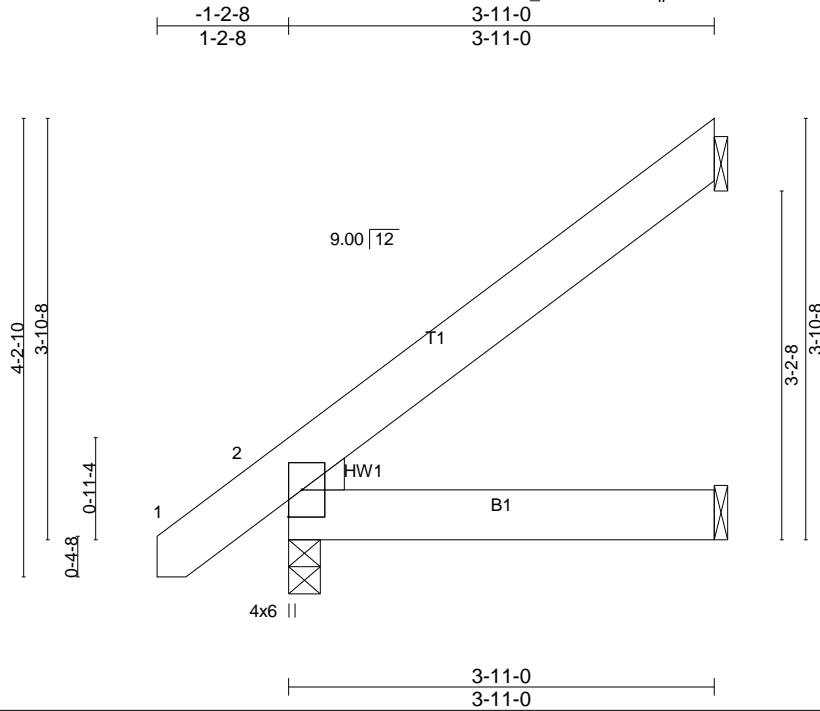
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 7-10-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3=162.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	FLORENCE, STACI & JASON
J0522-2459	X1A	Jack-Open	7	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:21.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT) -0.01	2-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2015/TPI2014						Weight: 25 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=118(LC 12)  
Max Uplift 3=-83(LC 12)  
Max Grav 3=118(LC 19), 2=234(LC 1), 4=74(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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 3-10-4 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
- 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) 3.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

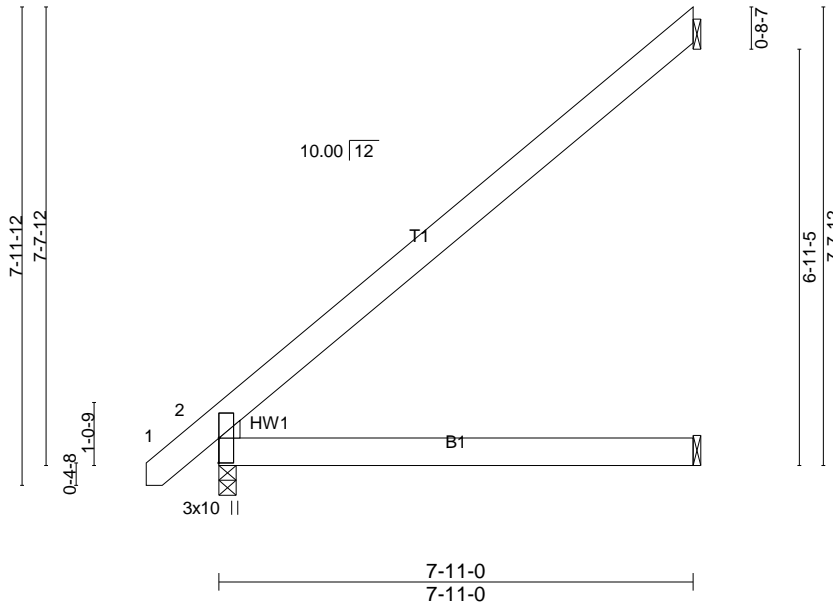
Job J0522-2459	Truss X2	Truss Type Jack-Partial	Qty 15	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:01:00 2022 Page 1  
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Scale = 1:38.4



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.46	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.10	2-4	>969	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240		
									Weight: 47 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=240(LC 12)  
Max Uplift 3=-183(LC 12)  
Max Grav 3=265(LC 19), 2=387(LC 1), 4=154(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-258/231

- 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) -1-0-14 to 3-3-14, Interior(1) 3-3-14 to 7-10-4 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
  - 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) 3=183.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

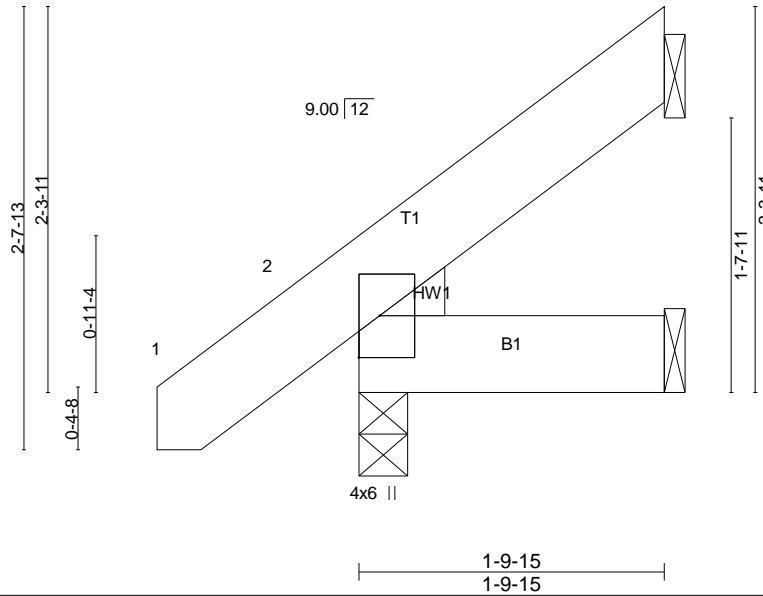
Job J0522-2459	Truss Y1	Truss Type Jack-Open	Qty 4	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:01:01 2022 Page 1  
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Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 14 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=68(LC 12)  
Max Uplift 3=-42(LC 12)  
Max Grav 3=45(LC 19), 2=158(LC 1), 4=36(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; 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
- 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) 3.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

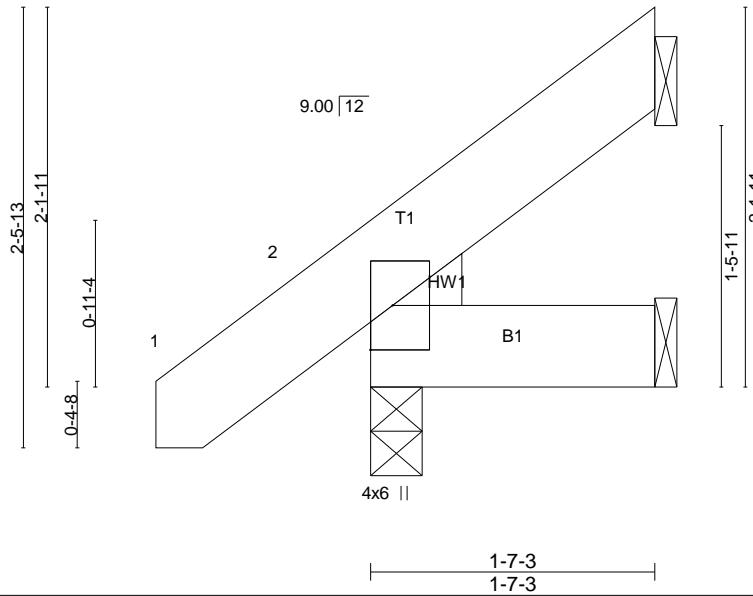
Job J0522-2459	Truss Y1A	Truss Type Jack-Open	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:01:01 2022 Page 1  
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Scale = 1:13.0



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-7-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=63(LC 12)  
Max Uplift 3=-37(LC 12), 2=-1(LC 12)  
Max Grav 3=34(LC 19), 2=152(LC 1), 4=31(LC 3)

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

**NOTES-**

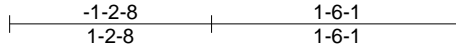
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been 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) 3, 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

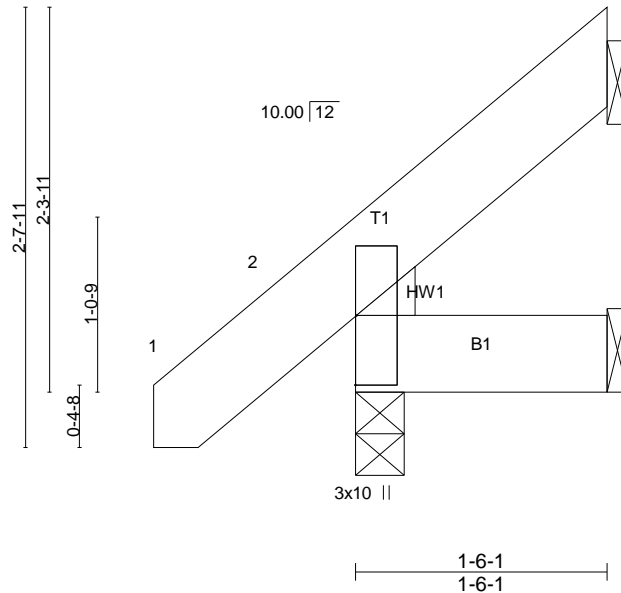
Job J0522-2459	Truss Y2	Truss Type Jack-Open	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:01:02 2022 Page 1  
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Scale = 1:13.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT) -0.00	2	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2015/TPI2014						Weight: 13 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-6-1 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical  
Max Horz 2=67(LC 12)  
Max Uplift 3=-43(LC 12)  
Max Grav 3=33(LC 19), 2=150(LC 1), 4=29(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; 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
- 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) 3.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

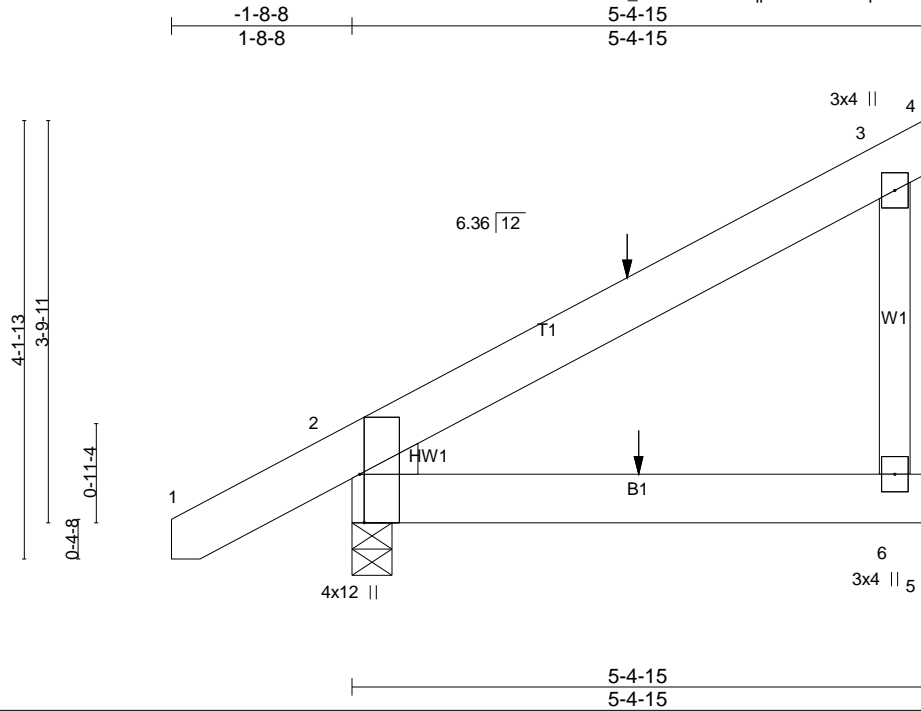
**LOAD CASE(S)** Standard



Job J0522-2459	Truss Z1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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Scale = 1:21.8

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 37 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-4-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 6=Mechanical, 2=0-4-9 (min. 0-1-8)

Max Horz 2=128(LC 5)  
Max Uplift 6=-50(LC 5), 2=-35(LC 8)  
Max Grav 6=210(LC 29), 2=322(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); end vertical left and right exposed; 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 is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 59 lb up at 2-8-9, and 78 lb down and 59 lb up at 2-8-9 on top chord, and 1 lb down at 2-8-9, and 1 lb down at 2-8-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

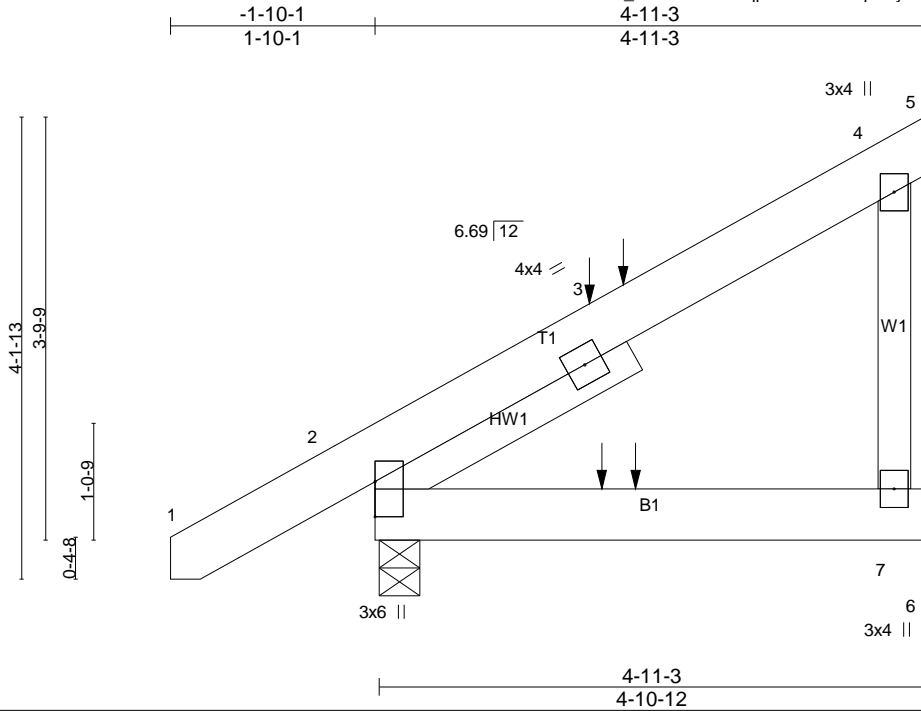
**LOAD CASE(S)** Standard

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

Job J0522-2459	Truss Z2	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	FLORENCE, STACI & JASON Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Mon May 9 13:01:03 2022 Page 1  
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Scale = 1:20.7

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.11	Vert(LL) -0.01	2-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.09	Vert(CT) -0.01	2-7	>999	240			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.00	Horz(CT) -0.00	7	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL) 0.00	2	****	240		Weight: 38 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 ~ 2-7-6

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 7=Mechanical, 2=0-4-6 (min. 0-1-8)  
 Max Horz 2=126(LC 5)  
 Max Uplift 7=-49(LC 5), 2=-32(LC 8)  
 Max Grav 7=199(LC 29), 2=307(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); end vertical left and right exposed; 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) 7, 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 59 lb up at 2-0-7, and 77 lb down and 62 lb up at 2-4-1 on top chord, and at 2-0-7, and at 2-4-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-60, 4-5=-20, 2-7=-20