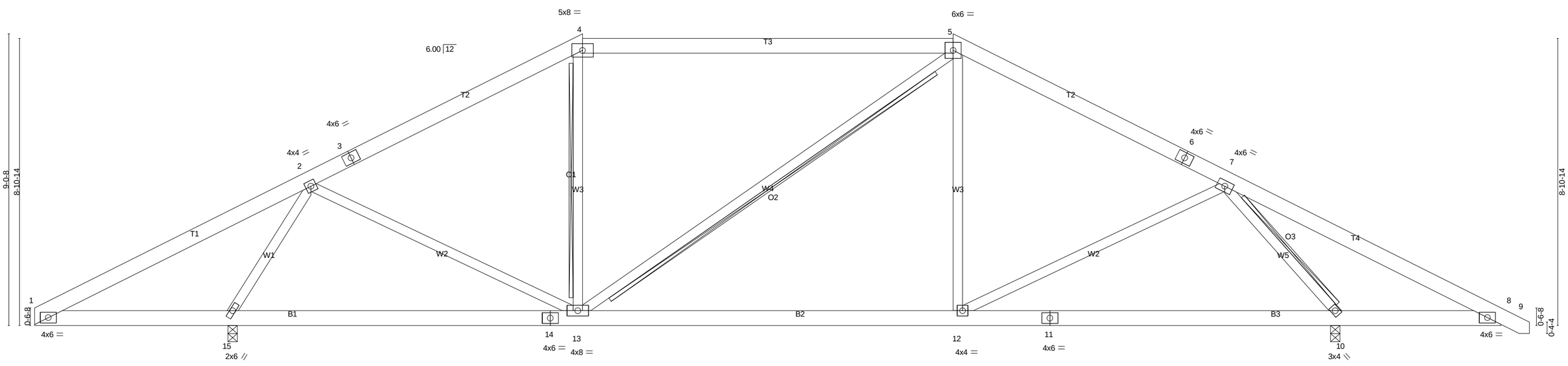
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A01	HIP	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:07 2023 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-57h?bOt1hVi8klSODvvbzlj6hbt8eMPhkRRJbWzy6pI

8-6-14	17-0-0	28-6-0	36-11-2	45-6-0	46-4-8
8-6-14	8-5-2	11-6-0	8-5-2	8-6-14	0-10-8

Scale = 1:33.3



6-1-12	17-0-0	28-6-0	40-4-4	45-6-0
6-1-12	10-10-4	11-6-0	11-10-4	5-1-12

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	0.72	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.25	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	12-13	>999	240	Weight: 312 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-13, 5-13, 7-10
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. (lb/size) 15=1869/0-3-8 (min. 0-2-3), 10=1814/0-3-8 (min. 0-2-2)
Max Horz 15=-116(LC 6)
Max Uplift15=-144(LC 10), 10=-151(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-477/500, 2-16=-458/632, 2-3=-1364/388, 3-17=-1329/389, 4-17=-1162/427, 4-5=-1118/465, 5-18=-1350/450, 6-18=-1419/412, 6-7=-1448/411, 7-19=-536/646, 8-19=-556/514
BOT CHORD 1-15=-446/500, 14-15=-98/592, 13-14=-98/592, 13-20=-76/1208, 12-20=-76/1208, 11-12=-25/826, 10-11=-25/826, 8-10=-465/593
WEBS 2-15=-1910/875, 2-13=-142/673, 5-12=0/300, 7-12=-55/487, 7-10=-2016/964

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=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 10-9-5, Exterior(2) 10-9-5 to 34-8-11, Interior(1) 34-8-11 to 41-9-13, Exterior(2) 41-9-13 to 46-2-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf 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 144 lb uplift at joint 15 and 151 lb uplift at joint 10.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

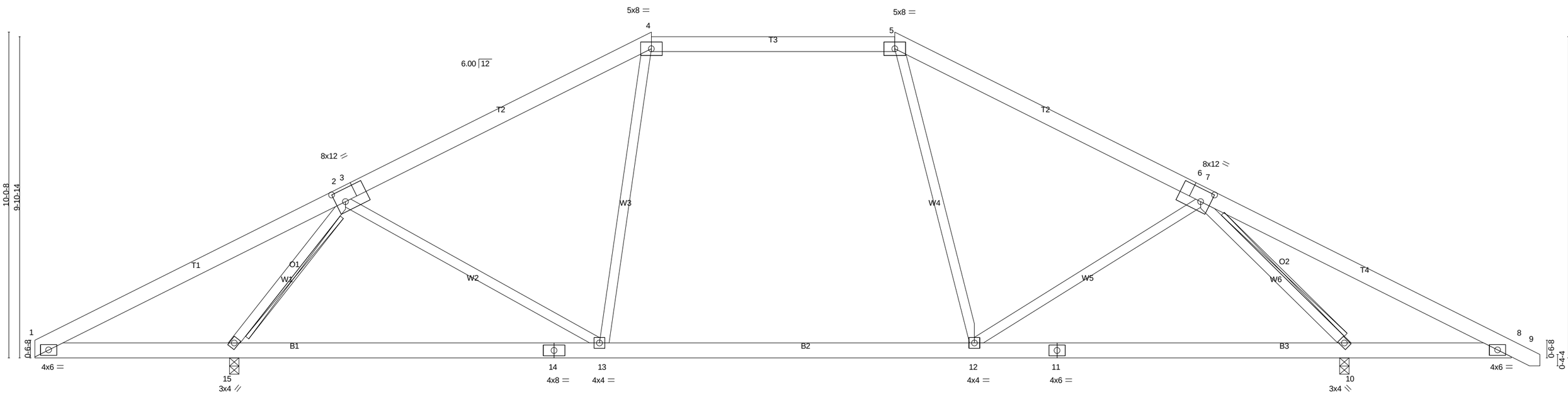
Job	Truss	Truss Type	Qty	Ply	
J0123-0054	A02	HIP	1	1	106-22-152 Jones Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:08 2023 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-ZKFNokufSpq?MR1amdQqWzGLt?A0Nsaqz5At8zzy6pH

9-6-14	19-0-0	26-6-0	35-11-2	45-6-0	46-4-8
9-6-14	9-5-2	7-6-0	9-5-2	9-6-14	0-10-8

Scale = 1:33.3



6-1-12	17-6-9	28-11-7	40-4-4	45-6-0
6-1-12	11-4-13	11-4-14	11-4-13	5-1-12

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

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	0.50	Vert(LL)	-0.31	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.40	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.21	10-12	>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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-15, 7-10
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. (lb/size) 15=1867/0-3-8 (min. 0-2-3), 10=1816/0-3-8 (min. 0-2-2)
Max Horz 15=-129(LC 6)
Max Uplift15=-156(LC 10), 10=-163(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-513/536, 2-16=-489/685, 2-3=-1427/377, 3-17=-1420/381, 4-17=-1309/426, 4-5=-1148/486, 5-18=-1346/423, 6-18=-1462/378, 6-7=-1469/374, 7-19=-506/666, 8-19=-553/506
BOT CHORD 1-15=-479/534, 14-15=-121/850, 13-14=-121/850, 13-20=-38/1148, 20-21=-38/1148, 12-21=-38/1148, 11-12=-73/1005, 10-11=-73/1005, 8-10=-466/595
WEBS 2-15=-2042/923, 2-13=-52/561, 4-13=0/258, 5-12=0/309, 7-12=-42/369, 7-10=-2105/966

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=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 12-9-5, Exterior(2) 12-9-5 to 32-8-11, Interior(1) 32-8-11 to 41-9-13, Exterior(2) 41-9-13 to 46-2-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf 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 156 lb uplift at joint 15 and 163 lb uplift at joint 10.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

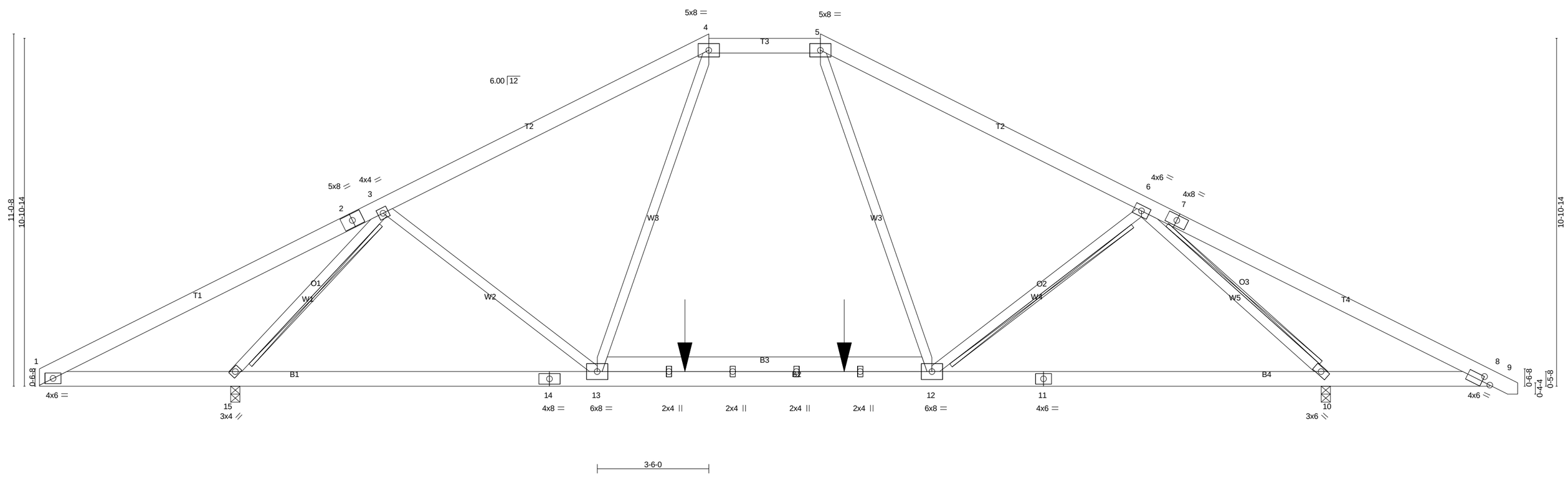
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A03	HIP TRUSS	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:09 2023 Page 1
ID:FU2qIODKIugRTPmem99rDUzUkoG-2Wol04vHD7yszbcmKKy32AoUuPXU6E3_BkwQgPzy6pG

10-11-2	21-0-0	24-6-0	34-6-14	45-6-0	46-4-8
10-11-2	10-0-14	3-6-0	10-0-14	10-11-2	0-10-8

Scale = 1:33.6



6-0-0	17-6-0	28-0-0	40-2-8	40-4-4	45-6-0
6-0-0	11-6-0	10-6-0	12-2-8	0-1-12	5-1-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.15	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.29	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	10-12	>999	240	Weight: 329 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-12, 6-10, 3-15
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. (lb/size) 10=1921/0-3-8 (min. 0-2-4), 15=1962/0-3-8 (min. 0-2-5)
Max Horz 15=-142(LC 6)
Max Uplift10=-76(LC 11), 15=-64(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-513/577, 2-16=-490/724, 2-3=-455/747, 3-17=-1579/196, 4-17=-1449/245, 4-5=-1201/353, 5-18=-1492/254, 6-18=-1626/206, 6-7=-519/742, 7-19=-520/694, 8-19=-573/547
BOT CHORD 1-15=-519/544, 15-20=-53/1149, 20-21=-53/1149, 14-21=-53/1149, 13-14=-53/1149, 13-22=0/1221, 22-23=0/1221, 23-24=0/1221, 24-25=0/1221, 12-25=0/1221, 11-12=0/1238, 11-26=0/1238, 26-27=0/1238, 10-27=0/1238, 8-10=-520/625
WEBS 3-13=0/436, 4-13=0/359, 5-12=0/475, 6-12=-46/297, 6-10=-2354/827, 3-15=-2299/767

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=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 14-9-5, Exterior(2) 14-9-5 to 30-8-11, Interior(1) 30-8-11 to 41-9-13, Exterior(2) 41-9-13 to 46-2-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 10 and 64 lb uplift at joint 15.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

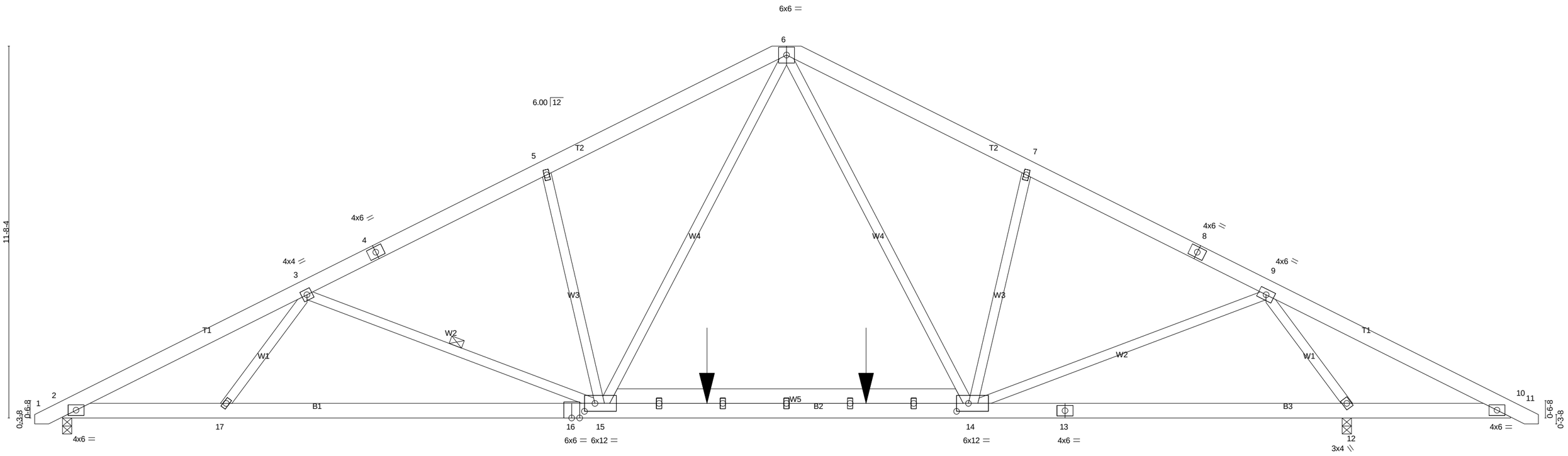
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A05	COMMON	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:10 2023 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-WiM7DQww_Q4jblBzu2TIbOLkVoq0rhs7QOf_Crzy6pF

-0-10-8	7-8-3	15-2-9	22-9-0	30-3-7	37-9-13	45-6-0	46-4-8
0-10-8	7-8-3	7-6-7	7-6-7	7-6-7	7-6-7	7-8-3	0-10-8

Scale = 1:34.0



5-1-12	16-10-9	28-7-6	40-4-4	45-6-0
5-1-12	11-8-13	11-8-13	11-8-14	5-1-12

Plate Offsets (X,Y)-- [14:0-4-7,0-3-0], [15:0-3-15,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.23	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.49	14-15	>987	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	15-17	>999	240	Weight: 356 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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 10-12.
WEBS 1 Row at midpt 3-15

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

REACTIONS. (lb/size) 2=1722/0-3-8 (min. 0-2-1), 12=2194/0-3-8 (min. 0-2-9)
Max Horz 2=-152(LC 8)
Max Uplift2=-71(LC 10), 12=-73(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-3254/433, 3-18=-3155/457, 3-4=-2458/336, 4-5=-2360/372, 5-19=-2359/451, 6-19=-2250/475, 6-20=-1885/378, 7-20=-1992/354, 7-8=-1972/276, 8-9=-2096/240, 9-21=-498/615, 10-21=-518/501
BOT CHORD 2-17=-275/2805, 16-17=-310/2684, 15-16=-310/2684, 15-22=0/1503, 22-23=0/1503, 23-24=0/1503, 24-25=0/1503, 14-25=0/1503, 13-14=0/919, 12-13=0/919, 10-12=-447/553
WEBS 3-17=0/441, 3-15=-628/279, 5-15=-444/265, 6-15=-147/1202, 6-14=-36/564, 7-14=-430/259, 9-14=-112/946, 9-12=-2390/728

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-14 to 3-8-15, Interior(1) 3-8-15 to 18-4-3, Exterior(2) 18-4-3 to 27-1-13, Interior(1) 27-1-13 to 41-9-1, Exterior(2) 41-9-1 to 46-1-14 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2 and 73 lb uplift at joint 12.
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.

LOAD CASE(S) Standard

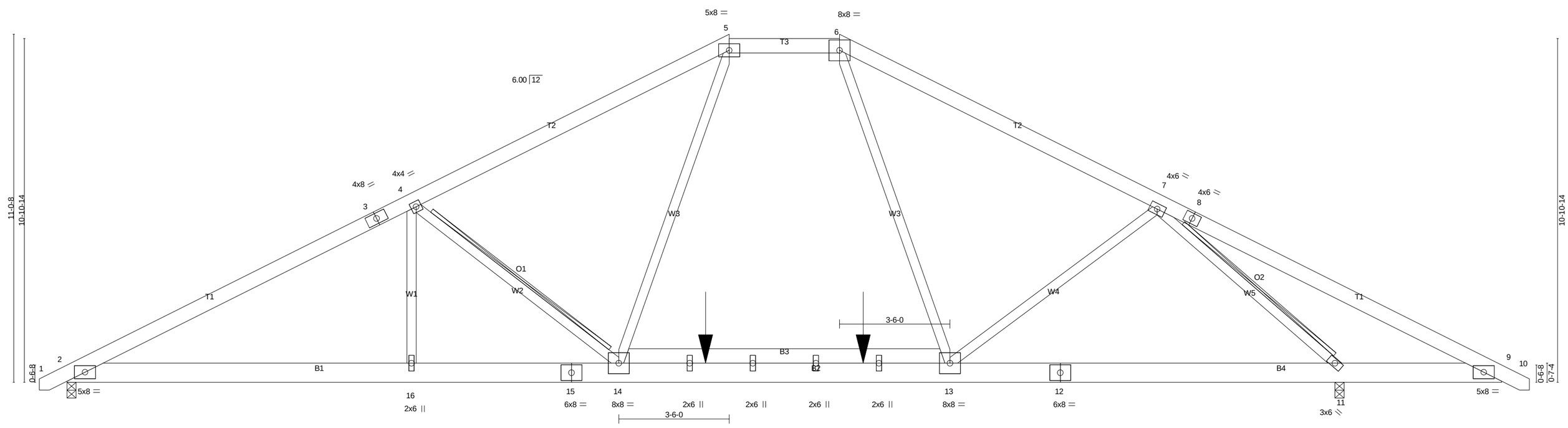
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A06	HIP TRUSS	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:10 2023 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-WiM7DQww_Q4jblBzu2TlbOLfvorfrfD7QOf_Crzy6pF

-0-10-8	10-11-2	21-0-0	24-6-0	34-6-14	45-6-0	46-4-8
0-10-8	10-11-2	10-0-14	3-6-0	10-0-14	10-11-2	0-10-8

Scale = 1:34.0



10-11-2	17-6-0	21-0-0	24-6-0	28-0-0	32-4-4	34-6-14	40-2-8	40-4-4	45-6-0
10-11-2	6-6-14	3-6-0	3-6-0	3-6-0	4-4-4	2-2-10	5-7-10	0-1-12	5-1-12

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	0.59	Vert(LL)	-0.25	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.43	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.17	14-16	>999	240	Weight: 361 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
B3: 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-11.
WEBS T-Brace: 2x4 SPF No.2 - 4-14, 7-11
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. (lb/size) 2=1720/0-3-8 (min. 0-2-0), 11=2203/0-3-8 (min. 0-2-10)
Max Horz 2=-141(LC 8)
Max Uplift2=-66(LC 10), 11=-65(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-3056/555, 3-17=-2952/588, 3-4=-2838/595, 4-18=-2315/439, 5-18=-2171/482, 5-6=-1661/512, 6-19=-1912/431, 7-19=-2113/383, 7-8=-289/733, 8-20=-289/585, 9-20=-342/539
BOT CHORD 2-21=-358/2683, 16-21=-358/2683, 15-16=-358/2683, 14-15=-358/2683, 14-22=-25/1661, 22-23=-25/1661, 23-24=-25/1661, 24-25=-25/1661, 13-25=-25/1661, 12-13=-133/1549, 12-26=-133/1549, 26-27=-133/1549, 11-27=-133/1549, 9-11=-523/429
WEBS 4-16=0/413, 4-14=-1049/422, 7-13=0/461, 7-11=-2787/767, 6-13=0/444, 5-14=-28/904

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-9-5, Exterior(2) 14-9-5 to 30-8-11, Interior(1) 30-8-11 to 41-9-13, Exterior(2) 41-9-13 to 46-2-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 65 lb uplift at joint 11.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

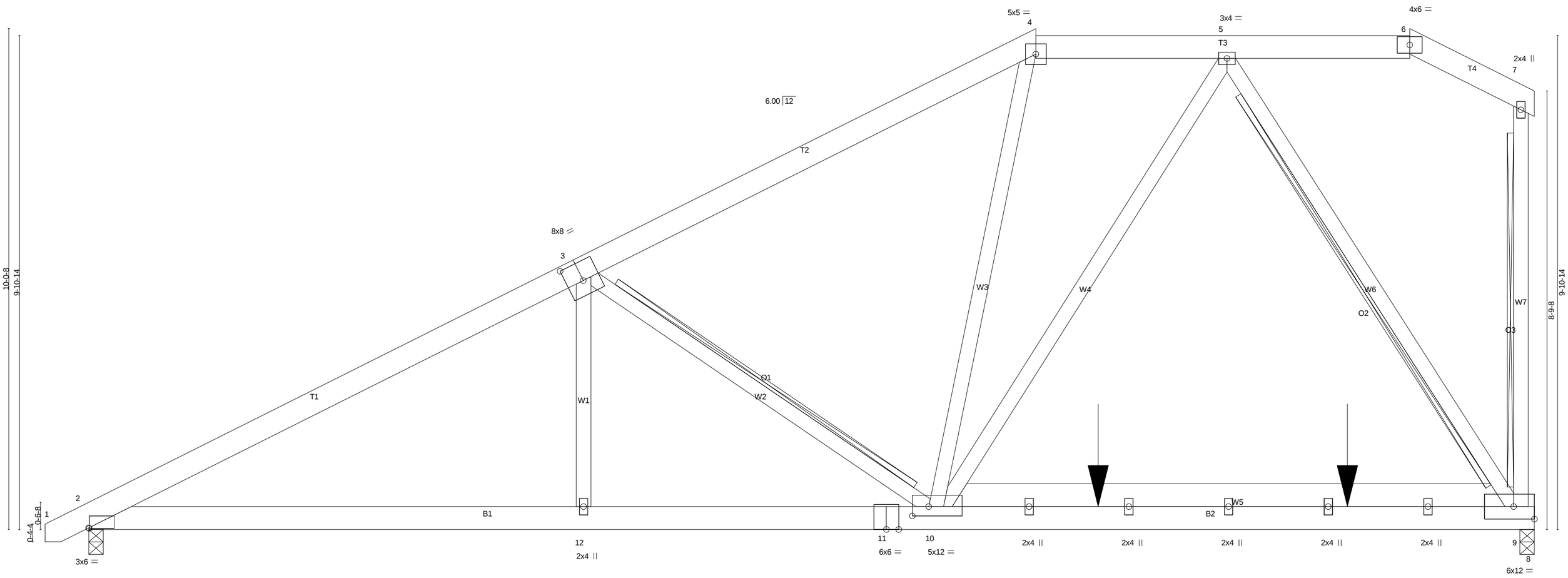
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A07	HIP	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:11 2023 Page 1
ID:FU2qIODKIugRTPmem99rDUzUkoG-_uwWRmxYlkCaDvm9Sl_X7butUCEPa9lHf2PXklzy6pE

-0-10-8 | 9-11-2 | 19-0-0 | 22-10-0 | 26-6-0 | 29-0-0
0-10-8 | 9-11-2 | 9-0-14 | 3-10-0 | 3-8-0 | 2-6-0

Scale = 1:21.5



9-11-2 | 17-0-0 | 29-0-0
9-11-2 | 7-0-14 | 12-0-0

Plate Offsets (X,Y)-- [2:0-0-2,0-0-2], [3:0-4-0,0-4-8], [10:0-3-15,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.44	9-10	>777	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	2-12	>999	240	Weight: 247 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-10, 7-9, 5-9
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. (lb/size) 2=1238/0-3-8 (min. 0-1-8), 9=1306/0-3-8 (min. 0-1-8)
Max Horz 2=296(LC 10)
Max Uplift2=-57(LC 10)
Max Grav 2=1238(LC 1), 9=1308(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2001/310, 3-13=-1889/343, 3-14=-1304/162, 4-14=-1162/206, 4-5=-1002/295
BOT CHORD 2-12=-544/1680, 11-12=-544/1683, 10-11=-544/1683, 10-15=-178/612, 15-16=-178/612, 16-17=-178/612, 17-18=-178/612, 9-18=-178/612
WEBS 3-12=0/278, 3-10=-782/406, 4-10=0/329, 5-10=-121/777, 5-9=-1130/344

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-9-5, Exterior(2) 12-9-5 to 28-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

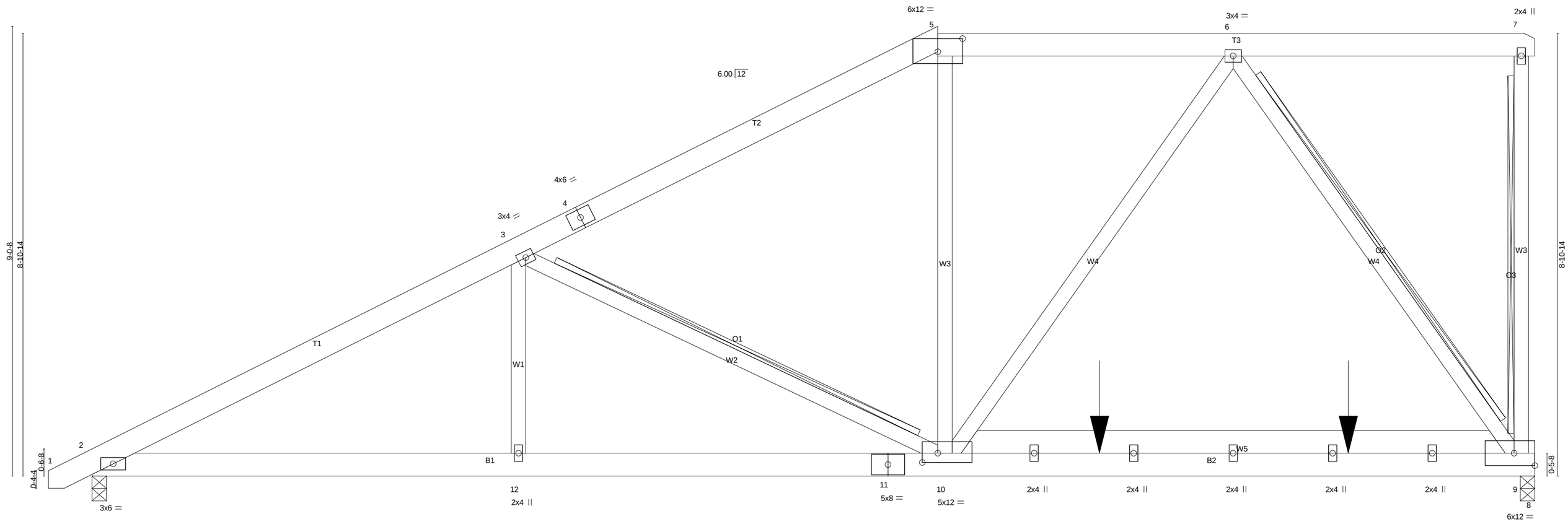
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A08	HIP	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:12 2023 Page 1
ID:FU2qlODKIugRTPmem99rDUzUkoG-S5Uue6xAW2KRq3KL?SVmgpQ1NcV_JeNQti84Hkzy6pD

-0-10-8	8-6-14	17-0-0	22-11-4	28-6-0	29-0-0
0-10-8	8-6-14	8-5-2	5-11-4	5-6-12	0-6-0

Scale = 1:21.4



8-6-14	17-0-0	29-0-0
8-6-14	8-5-2	12-0-0

Plate Offsets (X,Y)-- [5:0-6-0,0-3-2], [10:0-3-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.20	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.50	9-10	>690	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 241 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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-10, 7-9, 6-9
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. (lb/size) 2=1238/0-3-8 (min. 0-1-8), 9=1306/0-3-8 (min. 0-1-9)
Max Horz 2=284(LC 10)
Max Uplift2=-52(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2065/347, 3-13=-1968/375, 3-4=-1323/166, 4-14=-1288/167, 5-14=-1194/205, 5-6=-1076/256
BOT CHORD 2-12=-603/1750, 11-12=-603/1750, 10-11=-603/1750, 10-16=-201/681, 16-17=-201/681, 17-18=-201/681, 9-18=-201/681
WEBS 3-12=0/287, 3-10=-761/388, 5-10=0/301, 6-10=-94/724, 6-9=-1180/368

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-9-5, Exterior(2) 10-9-5 to 22-11-4, Interior(1) 22-11-4 to 24-3-15, Exterior(2) 24-3-15 to 28-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

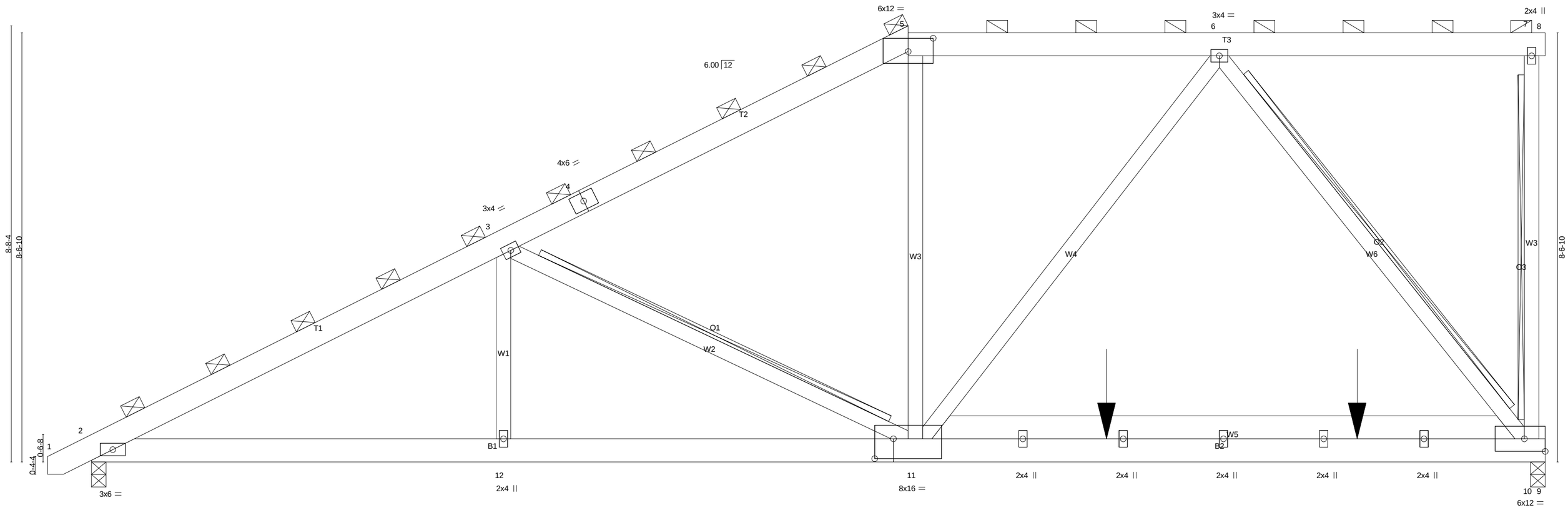
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A09	HALF HIP	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:13 2023 Page 1
ID:FU2qIODKIugRTPmem99rDUzUkoG-wH2GrRyoHLTlSDvXZA0?D0zBN0oV23Ga6MuepAzy6pC

-0-10-8	8-2-10	16-3-8	22-6-0	29-0-0
0-10-8	8-2-10	8-0-14	6-2-8	6-6-0

Scale = 1:21.4



8-2-10	16-3-8	29-0-0
8-2-10	8-0-14	12-8-8

Plate Offsets (X,Y)-- [5:0-6-0,0-3-2], [11:0-4-8,0-4-12]

LOADING (psf)		SPACING-	2-3-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.27	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.65	10-11	>526	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 240 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

BRACING-
TOP CHORD 2-0-0 oc purlins (4-9-8 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 7-10, 3-11, 6-10
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. (lb/size) 10=1456/0-3-8 (min. 0-1-11), 2=1387/0-3-8 (min. 0-1-10)
Max Horz 2=306(LC 10)
Max Uplift2=-63(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2326/436, 3-13=-2216/466, 3-4=-1545/227, 4-5=-1407/270, 5-6=-1268/320
BOT CHORD 2-12=-709/1973, 11-12=-709/1973, 11-15=-259/834, 15-16=-259/834, 16-17=-259/834, 10-17=-259/834
WEBS 3-12=0/286, 3-11=-797/435, 5-11=0/363, 6-11=-98/765, 6-10=-1337/440

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-0-13, Exterior(2) 10-0-13 to 22-6-0, Interior(1) 22-6-0 to 24-7-3, Exterior(2) 24-7-3 to 29-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 22-9-0 from left end, supported at two points, 5-0-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 2.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

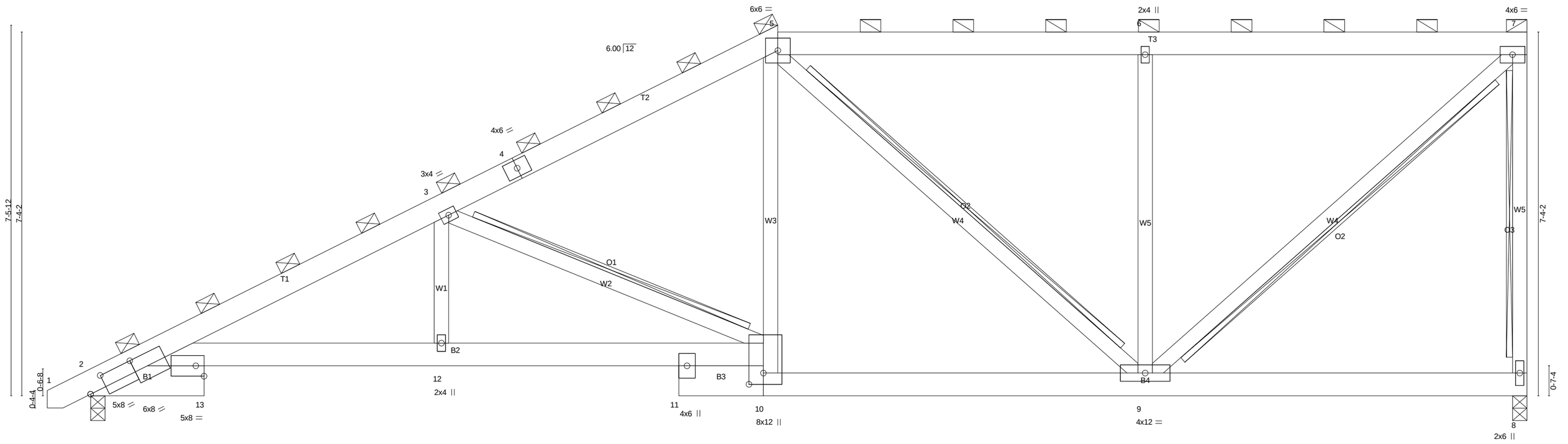
Job	Truss	Truss Type	Qty	Ply	106-22-152 Jones
J0123-0054	A10	HALF HIP	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:14 2023 Page 1
ID:FU2qIODKIugRTPmem99rDUzUkoG-OTce3nzQ2fb94MUk7tXElEWNKQC1naEjL0dBLczy6pB

-0-10-8	2-3-8	7-1-0	11-10-8	13-10-8	21-3-8	29-0-0
0-10-8	2-3-8	4-9-8	4-9-8	2-0-0	7-5-0	7-8-8

Scale = 1:21.5



2-3-8	7-1-0	11-10-8	13-10-8	21-3-8	29-0-0
2-3-8	4-9-8	4-9-8	2-0-0	7-5-0	7-8-8

Plate Offsets (X,Y)-- [2:0-4-2,0-3-0], [2:1-0-2,0-3-0], [10:0-2-12,0-3-8]

LOADING (psf)		SPACING-	2-6-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.22	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.09	10-12	>999	240	Weight: 223 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1 *Except*
B2: 2x6 SP 2400F 2.0E, B4: 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-11-12 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 7-8, 5-9, 7-9, 3-10
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. (lb/size) 8=1434/0-3-8 (min. 0-1-11), 2=1501/0-3-8 (min. 0-1-12)
Max Horz 2=290(LC 10)
Max Uplift 8=-176(LC 7), 2=-114(LC 10)
Max Grav 8=1437(LC 2), 2=1501(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-3141/891, 3-14=-3044/919, 3-15=-1937/557, 4-15=-1918/561, 4-5=-1813/601, 5-16=-1237/426, 6-16=-1239/425, 6-17=-1237/424, 7-17=-1237/424, 7-8=-1347/516
BOT CHORD 2-13=-1105/2707, 12-13=-1104/2734, 11-12=-1104/2734, 10-11=-1104/2711, 10-18=-610/1605, 9-18=-613/1598
WEBS 5-10=-131/732, 5-9=-525/254, 6-9=-670/354, 7-9=-568/1657, 3-10=-1239/548, 3-12=-84/631

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 7-7-13, Exterior(2) 7-7-13 to 20-1-3, Interior(1) 20-1-3 to 24-5-7, Exterior(2) 24-5-7 to 28-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf 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 176 lb uplift at joint 8 and 114 lb uplift at joint 2.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

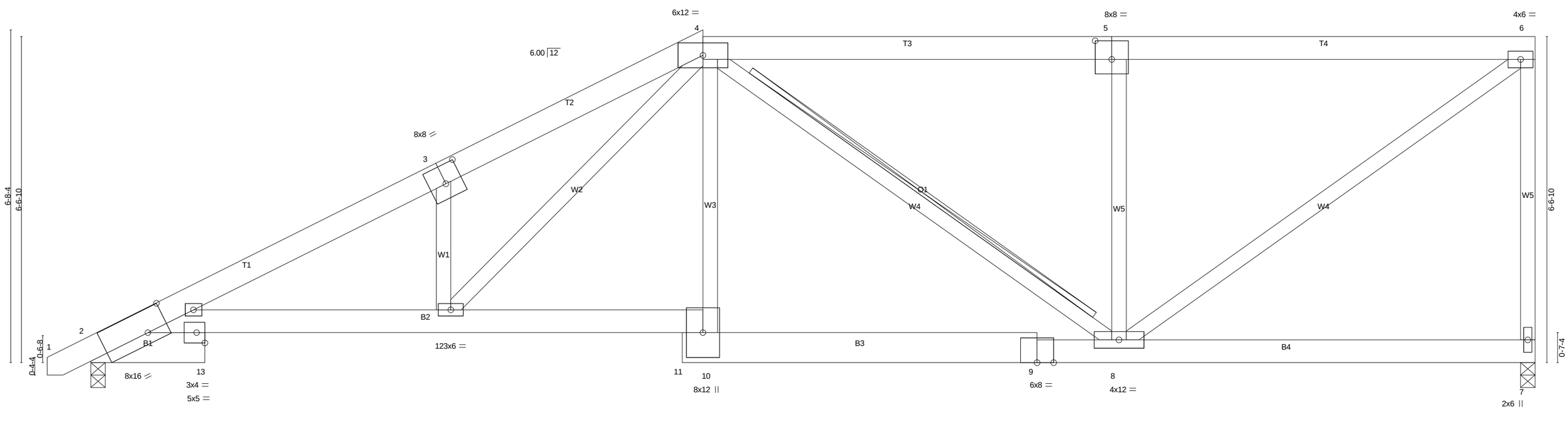
Job	Truss	Truss Type	Qty	Ply	
J0123-0054	A11	HALF HIP	1	1	106-22-152 Jones
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, James Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jan 6 10:35:15 2023 Page 1
ID:FU2qIODKIugRTPmem99rDUzUkoG-sgA0G7_2pzj0hW3whb2TIR2T7pUkWyXsagNku3zy6pA

-0-10-8	2-3-8	7-1-0	11-10-8	12-3-8	20-7-12	29-0-0
0-10-8	2-3-8	4-9-8	4-9-8	0-5-0	8-4-4	8-4-4

Scale = 1:21.7



2-3-8	7-1-0	11-10-8	12-3-8	20-7-12	29-0-0
2-3-8	4-9-8	4-9-8	0-5-0	8-4-4	8-4-4

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

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	0.75	Vert(LL)	-0.09	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.19	2-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.08	2-12	>999	240	Weight: 221 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
B1,B3: 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-10-3 oc bracing: 2-12.
WEBS T-Brace: 2x4 SPF No.2 - 4-8
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) 7=1148/0-3-8 (min. 0-1-8), 2=1201/0-3-8 (min. 0-1-8)
Max Horz 2=207(LC 10)
Max Uplift7=-143(LC 7), 2=-86(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-2484/737, 14-15=-2407/740, 3-15=-2342/758, 3-4=-2468/910, 4-16=-1190/398, 5-16=-1192/397, 5-17=-1176/389, 6-17=-1176/389, 6-7=-1066/402
BOT CHORD 2-13=-872/2137, 12-13=-871/2159, 11-12=-528/1408, 10-11=-432/1077, 9-10=-526/1411, 8-9=-526/1410
WEBS 4-8=-272/161, 5-8=-593/312, 6-8=-478/1446, 3-12=-353/289, 4-12=-493/1088

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-0-13, Exterior(2) 6-0-13 to 18-6-3, Interior(1) 18-6-3 to 24-5-7, Exterior(2) 24-5-7 to 28-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf 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 143 lb uplift at joint 7 and 86 lb uplift at joint 2.
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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard