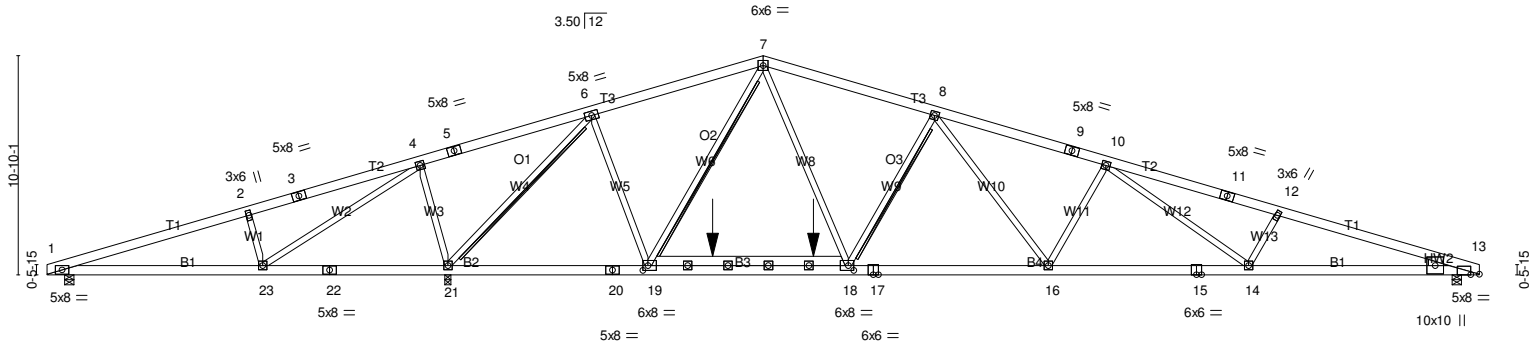


Job J1120-5567	Truss A1	Truss Type Common	Qty 4	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:28 2021 Page 1
 ID:Ny7UuD4B7kxMYTUDSooY13z3d5K-gVCPbvkXoEUeJtNX06yUTf9p43T_45cNoBuucwzFFg9

10-0-0	18-5-13	26-11-11	35-5-8	43-11-5	52-5-3	60-11-0	70-11-0
10-0-0	8-5-13	8-5-13	8-5-13	8-5-13	8-5-13	8-5-13	10-0-0

Scale = 1:114.1



0-10-8	10-8-3	19-10-4	29-9-3	39-8-1	49-7-0	59-5-15	70-0-8	70-11-0
0-10-8	9-9-11	9-2-1	9-10-15	9-10-15	9-10-15	9-10-15	10-6-9	0-10-8

Plate Offsets (X,Y)-- [13:0-5-1,Edge], [18:0-3-4,0-3-0], [19:0-3-0,0-3-0]

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 0.77	Vert(LL)	-0.35 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.67 14-16	>909	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.10 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.22 14-16	>999	240		
								Weight: 500 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W4: 2x4 SP 2400F 2.0E, W7: 2x6 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-1-3 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 7-19, 8-18
 2x6 SPF No.2 - 6-21
 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) 21=0-3-8 (req. 0-5-0), 1=0-5-8 (min. 0-1-8), 13=0-5-8 (min. 0-2-3)
 Max Horz 1=124(LC 12)
 Max Uplift 21=-76(LC 8), 1=-224(LC 26), 13=-123(LC 9)
 Max Grav 21=4226(LC 2), 1=276(LC 23), 13=1838(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-24=-110/1327, 2-24=-89/1361, 2-3=-65/1357, 3-4=-50/1400, 4-5=-254/2445,
 5-6=-228/2552, 6-25=-1146/176, 7-25=-1082/202, 7-26=-2400/349, 8-26=-2464/324,
 8-9=-3829/551, 9-10=-3886/525, 10-11=-5079/785, 11-12=-5140/759, 12-27=-5277/815,
 13-27=-5350/797
 BOT CHORD 1-23=-1270/176, 22-23=-2198/422, 22-28=-2198/422, 28-29=-2198/422, 21-29=-2198/422,
 21-30=0/473, 20-30=0/473, 19-20=0/498, 19-31=0/1628, 31-32=0/1628, 32-33=0/1628,
 18-33=0/1628, 17-18=-146/2926, 17-34=-157/2928, 34-35=-157/2928, 16-35=-157/2928,
 16-36=-381/4045, 36-37=-381/4045, 15-37=-381/4045, 14-15=-381/4045, 13-14=-697/5076
 WEBS 2-23=-594/306, 4-23=-309/1410, 4-21=-921/305, 6-21=-4177/472, 6-19=0/1776,
 7-19=-1253/237, 7-18=-109/1802, 8-18=-1302/396, 8-16=-185/1287, 10-16=-915/293,
 10-14=-219/1166, 12-14=-534/301

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 35-5-8, Exterior(2) 35-5-8 to 41-5-8, Interior(1) 41-5-8 to
 70-8-4 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, 35-5-8 from left end, supported at two points, 5-0-0 apart.

Job J1120-5567	Truss A1	Truss Type Common	Qty 4	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:28 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-gVCPbvkXoEUeJtNX06yUTf9p43T_45cNoBuucwzFFg9

NOTES-

- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) All plates are 5x5 MT20 unless otherwise indicated.
- 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) WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 21, 224 lb uplift at joint 1 and 123 lb uplift at joint 13.
- 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

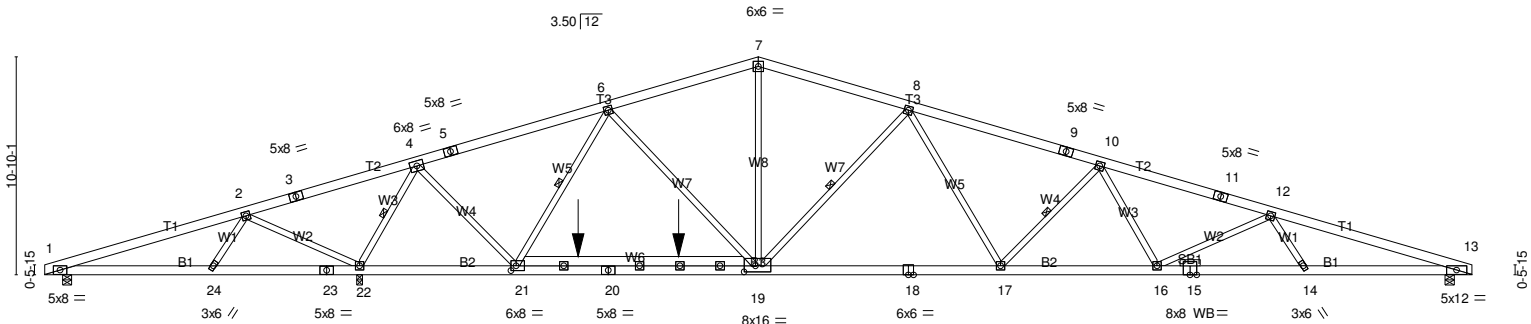
Job J1120-5567	Truss A2	Truss Type COMMON	Qty 5	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:29 2021 Page 1
ID: Ny7UuD4B7kxMYTUDSooYl3z3d5K-9hmnoF19ZYcVx1yjZpUj?siy5Tt1pbUX1rdR8NzFFg8

10-0-0	18-5-13	28-0-0	35-5-8	42-11-0	52-5-3	60-11-0	70-11-0
10-0-0	8-5-13	9-6-3	7-5-8	7-5-8	9-6-3	8-5-13	10-0-0

Scale = 1:114.5



0-10-8	8-4-8	15-7-12	23-5-0	35-5-8	47-6-0	55-3-4	62-6-8	70-0-8	70-11-0
0-10-8	7-6-0	7-3-4	7-9-4	12-0-8	12-0-8	7-9-4	7-3-4	7-6-0	0-10-8

Plate Offsets (X,Y)-- [19:0-6-12,0-3-12], [21:0-3-0,0-3-0]

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 0.94	Vert(LL)	-0.36	17-19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.66	17-19	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.11	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.24	16-17	>999		
								Weight: 506 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W6: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-19, 10-17, 6-21, 4-22

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

REACTIONS. (size) 22=0-3-8 (min. 0-3-4), 1=0-5-8 (min. 0-1-8), 13=0-5-8 (min. 0-1-11)
Max Horz 1=124(LC 16)
Max Uplift 22=-66(LC 8), 1=-333(LC 26), 13=-145(LC 9)
Max Grav 22=3940(LC 1), 1=84(LC 23), 13=2038(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-256/1613, 2-25=-235/1658, 2-3=-343/2562, 3-4=-318/2690, 4-5=-1169/93,
5-6=-1102/122, 6-26=-2570/408, 7-26=-2510/430, 7-27=-2486/440, 8-27=-2546/418,
8-9=-4045/677, 9-10=-4111/649, 10-11=-4947/833, 11-12=-5035/807, 12-28=-5860/953,
13-28=-5964/935
BOT CHORD 1-24=-1544/280, 23-24=-1659/223, 22-23=-1659/223, 21-22=-808/275, 21-29=-48/1866,
29-30=-48/1866, 20-30=-48/1866, 20-31=-48/1866, 19-31=-48/1866, 19-32=-314/3348,
18-32=-316/3341, 18-33=-316/3340, 17-33=-316/3340, 16-17=-568/4498, 15-16=-882/5549,
14-15=-882/5549, 13-14=-828/5637
WEBS 7-19=-31/1083, 8-19=-1458/412, 8-17=-124/1118, 10-17=-1104/311, 10-16=-74/662,
12-16=-896/315, 12-14=0/365, 6-19=-33/903, 6-21=-1685/399, 4-21=-142/2575,
4-22=-3741/488, 2-22=-1087/341, 2-24=0/411

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 35-5-8, Exterior(2) 35-5-8 to 41-5-8, Interior(1) 41-5-8 to 70-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 29-0-0 from left end, supported at two points, 5-0-0 apart.
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - All plates are 5x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job J1120-5567	Truss A2	Truss Type COMMON	Qty 5	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:29 2021 Page 2
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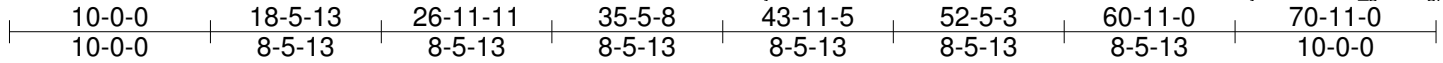
NOTES-

- 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 66 lb uplift at joint 22, 333 lb uplift at joint 1 and 145 lb uplift at joint 13.
- 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 J1120-5567	Truss A3	Truss Type COMMON	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:30 2021 Page 1
 ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-dtK9?bmnKrKMBXw7W?yY4E6vtA2Y2_gGVN?gpzFFg7



Scale = 1:114.5

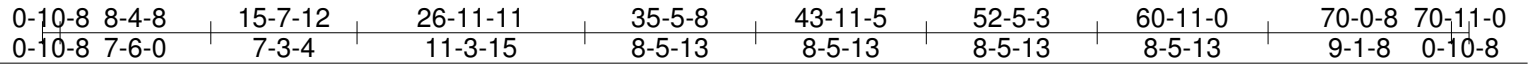
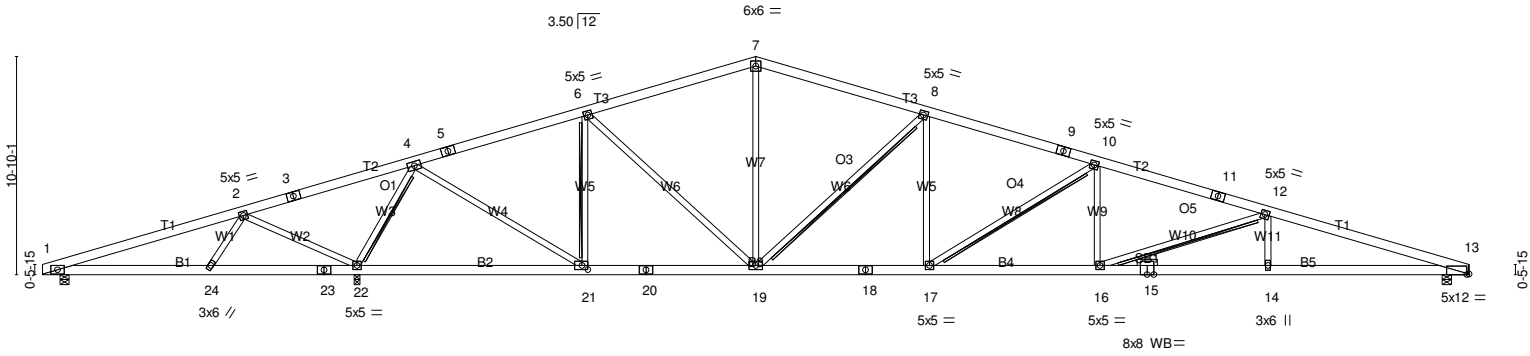


Plate Offsets (X,Y)-- [13:0-1-5,Edge], [21:0-3-8,0-2-8]

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 1.00	Vert(LL)	-0.36	16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.71	14-16	>927		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.14	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.27	14-16	>999		
								Weight: 485 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

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 5-10-6 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 4-22, 6-21, 10-17, 12-16
 2x6 SPF No.2 - 8-19
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

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

REACTIONS. All bearings Mechanical except (jt=length) 22=0-4-8 (input: 0-3-8), 1=0-5-8.
 (lb) - Max Horz 1=124(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) except 22=-246(LC 8), 13=-189(LC 9), 1=-319(LC 26)
 Max Grav All reactions 250 lb or less at joint(s) 1 except 22=3808(LC 2), 13=2004(LC 1), 13=2004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-25=-306/1590, 2-25=-285/1630, 2-3=-425/2451, 3-4=-409/2580, 4-5=-1727/405, 5-6=-1668/431, 6-26=-2317/581, 7-26=-2253/607, 7-27=-2253/616, 8-27=-2317/590, 8-9=-3521/772, 9-10=-3578/747, 10-11=-4664/937, 11-12=-4725/911, 12-28=-5780/1142, 13-28=-5865/1123
 BOT CHORD 1-24=-1522/327, 23-24=-1608/279, 22-23=-1608/279, 22-29=-814/235, 29-30=-814/235, 21-30=-814/235, 20-21=-158/1601, 20-31=-158/1601, 19-31=-158/1601, 19-32=-476/3380, 18-32=-476/3380, 17-18=-476/3380, 17-33=-701/4478, 16-33=-701/4478, 15-16=-1010/5567, 14-15=-1010/5567, 13-14=-1010/5567
 WEBS 2-24=0/365, 2-22=-1079/367, 4-22=-3476/738, 4-21=-436/2813, 6-21=-1250/363, 6-19=-118/898, 7-19=-84/868, 8-19=-1672/370, 8-17=-49/1038, 10-17=-1373/288, 10-16=-12/640, 12-16=-1265/327, 12-14=0/391

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 35-5-8, Exterior(2) 35-5-8 to 41-5-8, Interior(1) 41-5-8 to 70-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A3	Truss Type COMMON	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:30 2021 Page 2
ID:Ny7UuD4B7kMYTUDSocYI3z3d5K-dtK9?bmnKrkmZBXw7W?yY4E6vtA2Y2_gGVN?gpzFFg7

NOTES-

- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) All plates are 5x8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 22 greater than input bearing size.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 22, 189 lb uplift at joint 13 and 319 lb uplift at joint 1.
- 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

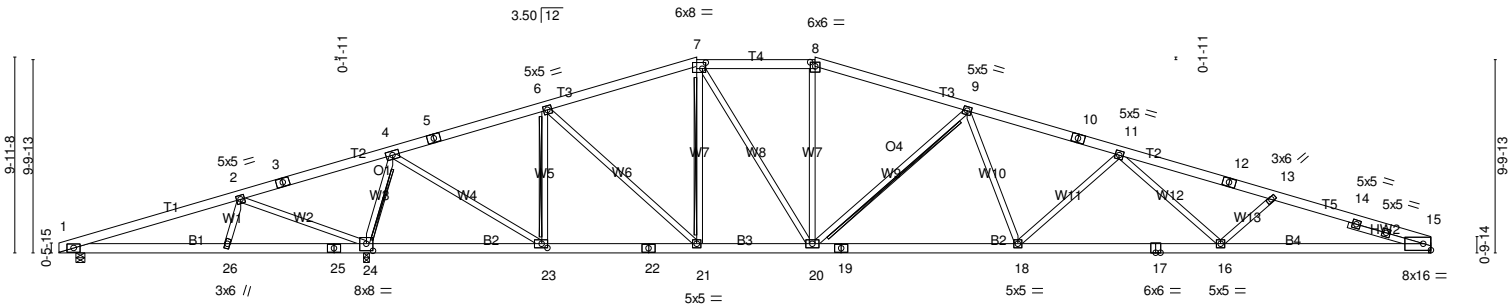
LOAD CASE(S) Standard

Job J1120-5567	Truss A4	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:31 2021 Page 1
 ID:Ny7UuD4B7kxMYTUDSooY13z3d5K-54uYDxnP59sDAK66hEWB4HnOzHYjHSEpU96YDFzFFg6

9-2-15	16-11-12	24-8-9	32-5-6	38-5-10	46-2-7	53-11-4	61-8-1	69-9-8
9-2-15	7-8-13	7-8-13	7-8-13	6-0-5	7-8-13	7-8-13	7-8-13	8-1-7

Scale = 1:117.2



0-10-8	8-6-15	15-7-12	24-8-9	32-5-6	38-5-10	48-9-6	59-1-2	69-9-8
0-10-8	7-8-7	7-0-13	9-0-13	7-8-13	6-0-5	10-3-12	10-3-12	10-8-6

Plate Offsets (X,Y)-- [7:0-2-0,0-3-12], [8:0-3-0,0-2-8], [15:1-2-13,0-0-11], [15:0-6-4,0-0-0], [23:0-3-8,0-2-8], [24:0-4-0,0-4-4]

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 0.54	Vert(LL)	-0.36 18-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.67 18-20	>975	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.12 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.22 16-18	>999	240		
								Weight: 491 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Right 2x4 SP No.2 - 3-11-5

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-2 oc purlins, except 2-0-0 oc purlins (4-9-4 max.): 7-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 4-24, 6-23, 7-21, 9-20
 T-Brace: 2x4 SPF No.2 - 4-24, 6-23, 7-21, 9-20
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

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

REACTIONS. (size) 24=0-3-8 (req. 0-4-3), 15=Mechanical, 1=0-5-8 (min. 0-1-8)
 Max Horz 1=113(LC 16)
 Max Uplift 24=-263(LC 8), 15=-196(LC 9), 1=-204(LC 26)
 Max Grav 24=3559(LC 1), 15=1990(LC 1), 1=166(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-27=-239/1173, 2-27=-211/1204, 2-3=-374/2003, 3-4=-351/2120, 4-5=-1486/439,
 5-28=-1388/460, 6-28=-1377/462, 6-7=-2299/683, 7-8=-2624/788, 8-9=-2777/777,
 9-29=-3976/974, 10-29=-4028/971, 10-11=-4084/950, 11-12=-4912/1064, 12-13=-4951/1045,
 13-30=-5089/1154, 14-30=-5140/1144, 14-15=-5223/1134
 BOT CHORD 1-26=-1122/255, 25-26=-1169/231, 24-25=-1169/231, 23-24=-1189/346, 23-31=-214/1373,
 22-31=-214/1373, 21-22=-214/1373, 21-32=-318/2149, 20-32=-318/2149, 19-20=-687/3560,
 19-33=-687/3560, 33-34=-687/3560, 18-34=-687/3560, 17-18=-868/4373, 16-17=-868/4373,
 15-16=-1006/4876
 WEBS 2-26=0/342, 2-24=-1115/341, 4-24=-3081/743, 4-23=-597/3014, 6-23=-1397/437,
 6-21=-215/1084, 7-21=-603/209, 7-20=-236/995, 8-20=-13/410, 9-20=-1336/380,
 9-18=-62/915, 11-18=-860/264, 11-16=-38/563

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 32-5-6, Exterior(2) 32-5-6 to 46-11-7, Interior(1) 46-11-7
 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A4	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:31 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-54uYDxnP59sDAK66hEWB4HnOzHYjHSEpU96YDFzFFg6

NOTES-

- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 5x8 MT20 unless otherwise indicated.
- 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) **WARNING:** Required bearing size at joint(s) 24 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 263 lb uplift at joint 24, 196 lb uplift at joint 15 and 204 lb uplift at joint 1.
- 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) **Warning:** Additional permanent and stability bracing for truss system (not part of this component design) is always required.

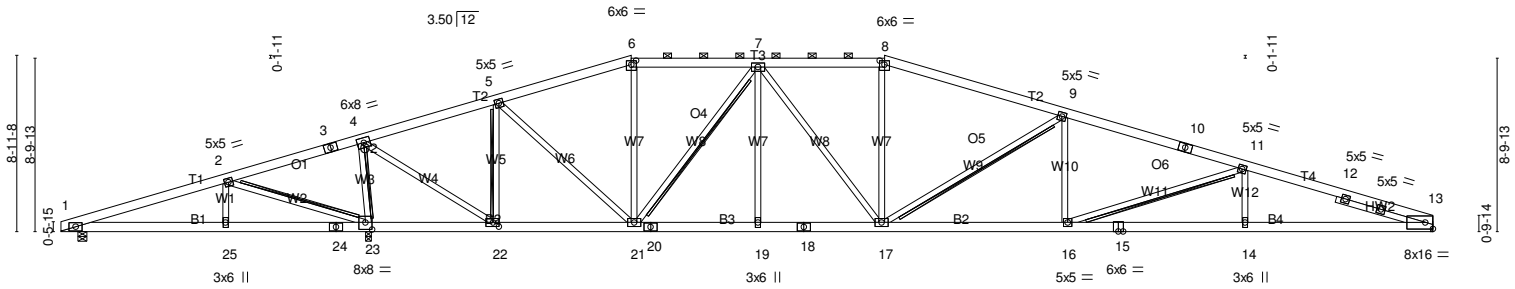
LOAD CASE(S) Standard

Job J1120-5567	Truss A5	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:32 2021 Page 1
 ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-ZGSwQHn2sT_4oUhIFx1QdVKZNgvK0wHzjps5lizFFg5

8-4-11	15-3-3	22-1-11	29-0-3	35-5-8	41-10-13	51-0-13	60-2-13	69-9-8
8-4-11	6-10-8	6-10-8	6-10-8	6-5-5	6-5-5	9-2-0	9-2-0	9-6-11

Scale = 1:117.2



0-10-8	8-4-11	15-7-12	22-1-11	29-0-3	35-5-8	41-10-13	51-0-13	60-2-13	69-9-8
0-10-8	7-6-3	7-3-1	6-5-15	6-10-8	6-5-5	6-5-5	9-2-0	9-2-0	9-6-11

Plate Offsets (X,Y)-- [6:0-3-0,0-2-8], [8:0-3-0,0-2-8], [13:1-2-13,0-0-11], [13:0-6-4,0-0-0], [22:0-3-8,0-2-8], [23:0-4-0,0-4-4]

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 0.56	Vert(LL)	-0.31	16-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.62	16-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.13	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.23	14-16	>999		
								Weight: 499 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Right 2x4 SP No.2 -t 4-8-6

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except 2-0-0 oc purlins (4-4-12 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 5-2-13 oc bracing.
 WEBS T-Brace: 2x4 SP No.2 - 2-23, 4-23, 5-22, 7-21, 9-17, 11-16
 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) 23=0-3-8 (req. 0-4-3), 13=Mechanical, 1=0-5-8 (min. 0-1-8)
 Max Horz 1=101(LC 16)
 Max Uplift 23=-281(LC 8), 13=-205(LC 9), 1=-214(LC 26)
 Max Grav 23=3545(LC 1), 13=1992(LC 1), 1=157(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-26=-213/1180, 2-26=-187/1209, 2-3=-368/1915, 3-4=-347/2007, 4-27=-888/334,
 5-27=-801/355, 5-6=-2079/645, 6-28=-1958/655, 7-28=-1960/654, 7-29=-3087/905,
 8-29=-3085/906, 8-30=-3260/893, 9-30=-3270/863, 9-10=-4398/1093, 10-11=-4436/1072,
 11-31=-5134/1141, 12-31=-5155/1129, 12-13=-5233/1117
 BOT CHORD 1-25=-1130/227, 24-25=-1130/227, 23-24=-1130/227, 22-23=-2167/579, 22-32=-134/816,
 21-32=-134/816, 20-21=-480/2790, 20-33=-480/2790, 19-33=-480/2790, 18-19=-480/2790,
 18-34=-480/2790, 17-34=-480/2790, 17-35=-875/4222, 16-35=-875/4222, 15-16=-1006/4902,
 14-15=-1006/4902, 13-14=-1006/4902
 WEBS 2-25=0/336, 2-23=-1128/307, 4-23=-3071/765, 4-22=-768/3539, 5-22=-1748/507,
 5-21=-322/1566, 6-21=0/307, 7-21=-1427/355, 7-19=0/409, 7-17=-135/640, 8-17=-25/551,
 9-17=-1403/371, 9-16=0/587, 11-16=-849/234, 11-14=0/369

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 29-0-3, Exterior(2) 29-0-3 to 37-6-1, Interior(1) 37-6-1 to 41-10-13, Exterior(2) 41-10-13 to 50-4-10, Interior(1) 50-4-10 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A5	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:32 2021 Page 2
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NOTES-

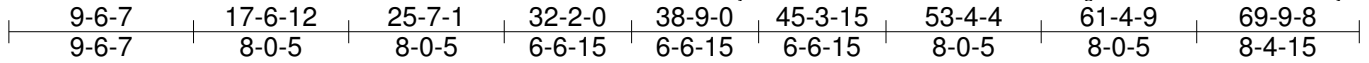
- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 5x8 MT20 unless otherwise indicated.
- 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) **WARNING:** Required bearing size at joint(s) 23 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 281 lb uplift at joint 23, 205 lb uplift at joint 13 and 214 lb uplift at joint 1.
- 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) **Warning:** Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss A6	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:33 2021 Page 1
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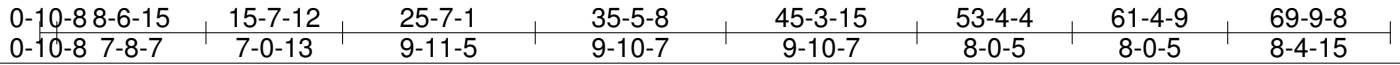
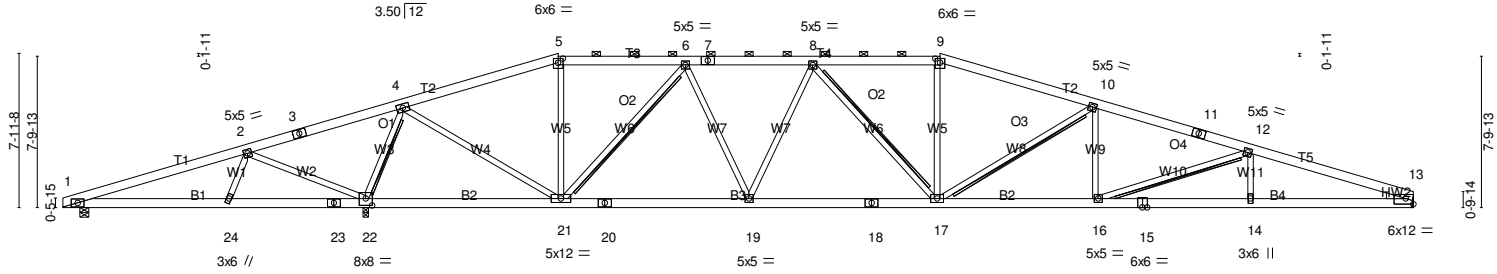


Plate Offsets (X,Y)-- [5:0-3-0,0-2-8], [9:0-3-0,0-2-8], [13:1-0-10,0-1-6], [13:0-2-5,0-0-11], [13:Edge,0-3-8], [22:0-4-0,0-4-4]

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 0.76	Vert(LL)	-0.31	17-19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.60	17-19	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.12	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.23	16	>999		
								Weight: 475 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except 2-0-0 oc purlins (4-2-7 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SP No.2 - 4-22, 6-21, 8-17, 10-17, 12-16
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) 22=0-3-8 (req. 0-4-6), 13=Mechanical, 1=0-5-8 (min. 0-1-8)
Max Horz 1=-89(LC 17)
Max Uplift 22=-314(LC 8), 13=-207(LC 9), 1=-313(LC 26)
Max Grav 22=3686(LC 1), 13=1962(LC 1), 1=47(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-361/1557, 2-25=-340/1590, 2-3=-498/2351, 3-26=-473/2465, 4-26=-471/2472, 4-5=-1462/460, 5-6=-1350/482, 6-7=-2951/813, 7-27=-2951/813, 27-28=-2951/813, 8-28=-2951/813, 8-9=-3318/960, 9-10=-3493/954, 10-29=-4342/1137, 11-29=-4412/1136, 11-12=-4477/1113, 12-30=-5162/1174, 13-30=-5261/1157
BOT CHORD 1-24=-1491/372, 23-24=-1550/340, 22-23=-1550/340, 22-31=-1180/368, 31-32=-1180/368, 21-32=-1180/368, 20-21=-453/2514, 20-33=-453/2514, 33-34=-453/2514, 19-34=-453/2514, 19-35=-612/3182, 18-35=-612/3182, 17-18=-612/3182, 16-17=-935/4236, 15-16=-1049/4933, 14-15=-1049/4933, 13-14=-1049/4933
WEBS 2-24=0/348, 2-22=-1099/348, 4-22=-3247/875, 4-21=-598/2921, 6-21=-1793/481, 6-19=-131/1078, 8-19=-752/259, 8-17=-66/346, 9-17=-44/626, 10-17=-1148/335, 10-16=0/500, 12-16=-742/224, 12-14=0/341

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 25-7-1, Exterior(2) 25-7-1 to 34-0-14, Interior(1) 34-0-14 to 45-3-15, Exterior(2) 45-3-15 to 53-9-12, Interior(1) 53-9-12 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A6	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:33 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-1S0ledogdm6xQeGVofYfAish?4BTIMw6yTbfH8zFFg4

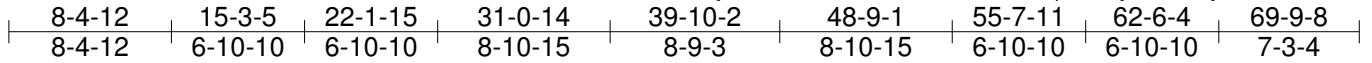
NOTES-

- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 5x8 MT20 unless otherwise indicated.
- 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) **WARNING:** Required bearing size at joint(s) 22 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 314 lb uplift at joint 22, 207 lb uplift at joint 13 and 313 lb uplift at joint 1.
- 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) **Warning:** Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss A7	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:35 2021 Page 1
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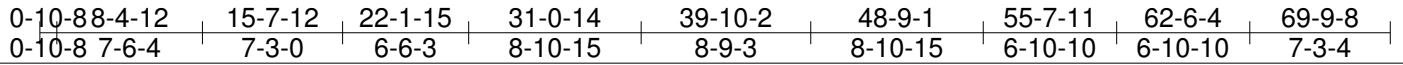
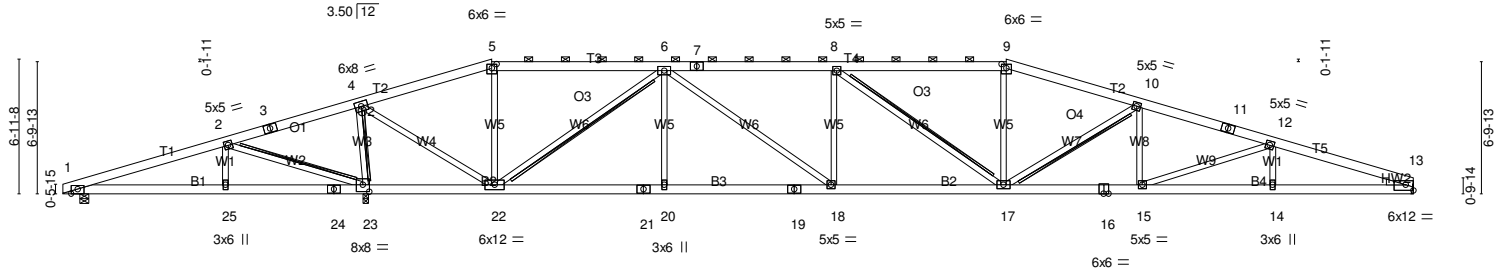


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [5:0-3-0,0-2-8], [9:0-3-0,0-2-8], [13:1-0-10,0-1-6], [13:0-2-5,0-0-11], [13:Edge,0-3-8], [23:0-4-0,0-4-4]

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 0.75	Vert(LL)	-0.33	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.65	17-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.13	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.25	17	>999		
								Weight: 476 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W6: 2x4 SP No.1
 WEDGE
 Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-2 oc purlins, except 2-0-0 oc purlins (3-7-11 max.): 5-9.
 BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 2-23, 4-23, 8-17, 10-17
 2x6 SPF No.2 - 6-22
 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) 23=0-3-8 (req. 0-4-6), 13=Mechanical, 1=0-5-8 (min. 0-1-8)
 Max Horz 1=77(LC 12)
 Max Uplift 23=-337(LC 8), 13=-211(LC 9), 1=-367(LC 26)
 Max Grav 23=3731(LC 1), 13=1956(LC 24), 1=53(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-26=-343/1694, 2-26=-318/1724, 2-3=-507/2407, 3-27=-499/2484, 4-27=-486/2511,
 4-5=-637/252, 5-28=-561/275, 6-28=-561/274, 6-7=-3795/1003, 7-8=-3795/1003,
 8-29=-3695/1034, 9-29=-3695/1035, 9-10=-3880/1036, 10-30=-4571/1192,
 11-30=-4620/1179, 11-12=-4675/1171, 12-31=-5123/1198, 13-31=-5226/1183
 BOT CHORD 1-25=-1621/351, 24-25=-1621/351, 23-24=-1621/351, 22-23=-2650/717, 22-32=-492/2797,
 21-32=-492/2797, 20-21=-492/2797, 20-33=-492/2797, 19-33=-492/2797, 18-19=-492/2797,
 18-34=-734/3795, 17-34=-734/3795, 16-17=-1007/4435, 15-16=-1007/4435,
 14-15=-1076/4893, 13-14=-1076/4893
 WEBS 2-25=0/339, 2-23=-1146/311, 4-23=-3208/857, 4-22=-823/3727, 5-22=-300/177,
 6-22=-2795/640, 6-20=0/525, 6-18=-305/1337, 8-18=-612/287, 8-17=-389/103,
 9-17=-38/686, 10-17=-898/289, 10-15=0/397, 12-15=-489/182, 12-14=0/283

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 22-1-15, Exterior(2) 22-1-15 to 30-7-12, Interior(1) 30-7-12 to 48-9-1, Exterior(2) 48-9-1 to 57-2-14, Interior(1) 57-2-14 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A7	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:35 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYl3z3d5K-zr723Jqw9OMffyQtw4a7F7y0ausSDGRPPn4mM0zFFg2

NOTES-

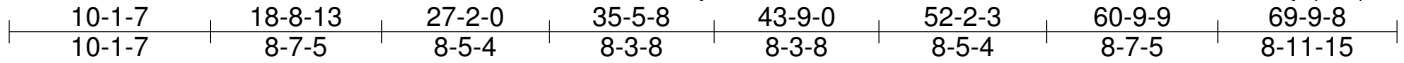
- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 5x8 MT20 unless otherwise indicated.
- 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) **WARNING:** Required bearing size at joint(s) 23 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 337 lb uplift at joint 23, 211 lb uplift at joint 13 and 367 lb uplift at joint 1.
- 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) **Warning:** Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss A8	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:36 2021 Page 1
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-R1hRGerYwhUWH6?4Un6MnLU9DlClyqYeRqJuTzFFg1



Scale = 1:115.9

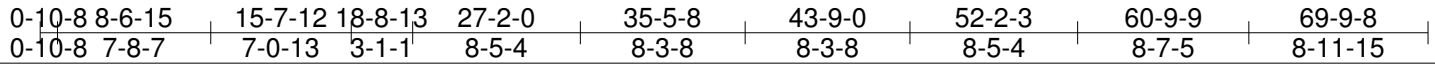
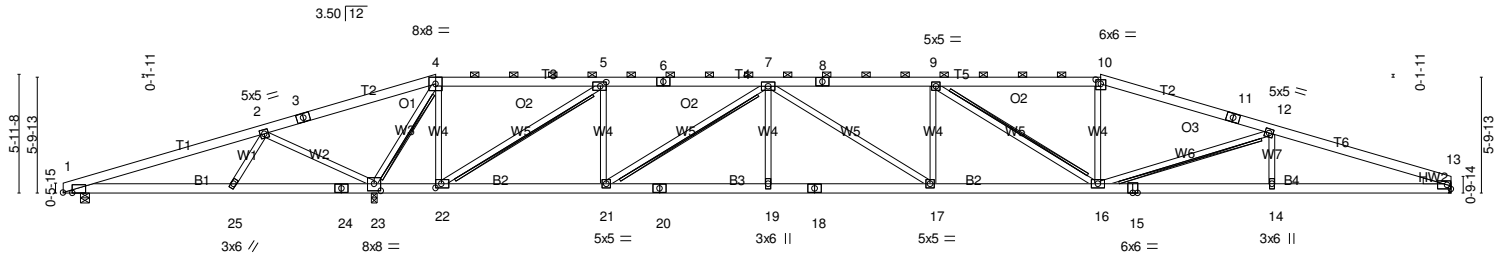


Plate Offsets (X,Y)-- [1:0-5-9,Edge], [5:0-3-8,0-2-8], [10:0-3-0,0-2-8], [22:0-3-8,0-2-8], [23:0-4-0,0-4-4]

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 0.89	Vert(LL)	-0.34	17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.69	16-17	>944		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.14	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.27	17	>999		
								Weight: 463 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W5: 2x4 SP 2400F 2.0E
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except 2-0-0 oc purlins (3-7-2 max.): 4-10.
BOT CHORD Rigid ceiling directly applied or 4-10-13 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-23, 7-21, 9-16, 12-16
2x6 SPF No.2 - 5-22
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) 23=0-3-8 (req. 0-4-11), 13=Mechanical, 1=0-5-8 (min. 0-1-8)
Max Horz 1=-65(LC 17)
Max Uplift 23=-378(LC 8), 13=-207(LC 9), 1=-579(LC 24)
Max Grav 23=3997(LC 1), 13=1907(LC 24), 1=80(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-541/2461, 2-26=-520/2497, 2-3=-696/3252, 3-4=-690/3381, 4-5=-176/1285,
5-6=-1784/510, 6-7=-1784/510, 7-8=-4291/1105, 8-9=-4291/1105, 9-10=-3966/1070,
10-11=-4099/1066, 11-12=-4179/1042, 12-27=-4993/1244, 13-27=-5090/1224
BOT CHORD 1-25=-2356/580, 24-25=-2457/529, 23-24=-2457/529, 22-23=-1335/421, 22-28=-277/1784,
21-28=-277/1784, 20-21=-671/3608, 20-29=-671/3608, 19-29=-671/3608, 18-19=-671/3608,
17-18=-671/3608, 17-30=-872/4291, 16-30=-872/4291, 15-16=-1116/4773,
14-15=-1116/4773, 13-14=-1116/4773
WEBS 2-25=0/407, 2-23=-1183/417, 4-23=-3770/879, 4-22=-359/1975, 5-22=-3505/819,
5-21=-157/1468, 7-21=-2193/477, 7-19=0/399, 7-17=-247/963, 9-17=-365/236,
9-16=-716/118, 10-16=-48/719, 12-16=-879/297, 12-14=0/370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 18-8-13, Exterior(2) 18-8-13 to 27-2-0, Interior(1) 27-2-0 to 52-2-3, Exterior(2) 52-2-3 to 60-9-9, Interior(1) 60-9-9 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A8	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:36 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-R1hRGerYwhUWH6?4Un6MnLU9DlCLykqYeRqJuTzFFg1

NOTES-

- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 5x8 MT20 unless otherwise indicated.
- 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) **WARNING:** Required bearing size at joint(s) 23 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 378 lb uplift at joint 23, 207 lb uplift at joint 13 and 579 lb uplift at joint 1.
- 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) **Warning:** Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

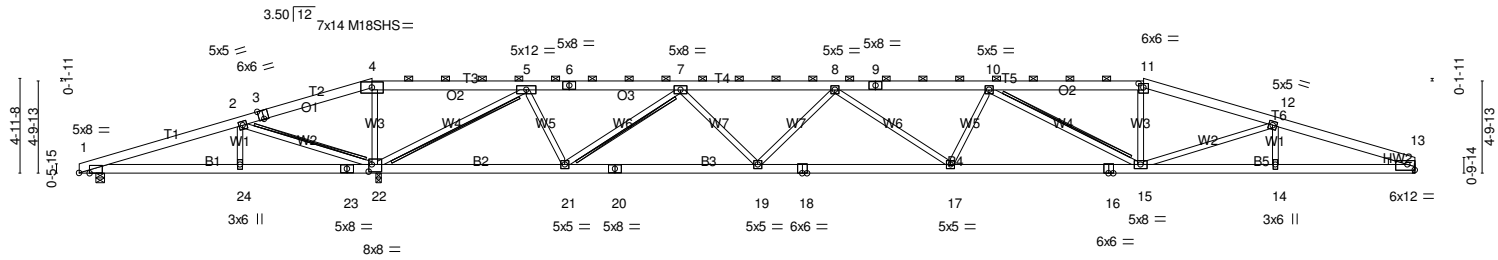
Job J1120-5567	Truss A9	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:37 2021 Page 1
ID: Ny7UuD4B7kxMYTUDSooYI3z3d5K-wDFpT_rAg?cNvFZG1VdbKY1MwhZ?hC2it4ZsQvzFFg0

8-4-14	15-3-10	23-4-6	31-5-2	39-5-14	47-6-10	55-7-6	62-6-2	69-9-8
8-4-14	6-10-12	8-0-12	8-0-12	8-0-12	8-0-12	8-0-12	6-10-12	7-3-6

Scale = 1:120.4



0-10-8	8-4-14	15-3-10	25-4-9	35-5-8	45-6-7	55-7-6	62-6-2	69-9-8	
0-10-8	7-6-6	6-10-12	0-2-6	9-10-9	10-0-15	10-0-15	10-0-15	6-10-12	7-3-6

Plate Offsets (X,Y)-- [1:0-6-9,Edge], [3:0-3-0,Edge], [4:0-0-0,0-0], [11:0-3-0,0-2-8], [13:1-0-10,0-1-6], [13:0-2-5,0-0-11], [13:Edge,0-3-8], [22:0-2-0,0-4-8]

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 0.76	Vert(LL)	-0.41	17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.82	17-19	>792	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.13	13	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.33	17	>999		
								Weight: 447 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W4: 2x4 SP 2400F 2.0E
WEDGE
Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-11 oc purlins, except 2-0-0 oc purlins (3-4-0 max.): 4-11.
BOT CHORD Rigid ceiling directly applied or 4-3-11 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-22, 7-21, 10-15
2x6 SPF No.2 - 5-22
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) 22=0-3-8 (req. 0-5-1), 13=Mechanical, 1=0-5-8 (min. 0-1-8)
Max Horz 1=53(LC 12)
Max Uplift 22=-426(LC 8), 13=-201(LC 9), 1=-832(LC 24)
Max Grav 22=4302(LC 1), 13=1853(LC 24), 1=111(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-646/3256, 25-26=-625/3278, 2-26=-620/3288, 2-3=-886/4052, 3-4=-883/4155,
4-5=-829/4008, 5-27=-829/223, 6-27=-829/223, 6-7=-829/223, 7-8=-3769/867,
8-9=-4920/1163, 9-28=-4920/1163, 10-28=-4920/1163, 10-11=-4194/1085,
11-12=-4385/1088, 12-29=-4808/1222, 29-30=-4815/1218, 13-30=-4911/1207
BOT CHORD 1-24=-3116/673, 23-24=-3116/673, 22-23=-3116/673, 20-21=-534/2854, 19-20=-534/2854,
18-19=-916/4497, 17-18=-916/4497, 16-17=-1048/4970, 15-16=-1048/4970,
14-15=-1101/4596, 13-14=-1101/4596
WEBS 2-24=0/325, 2-22=-1298/421, 4-22=-1536/468, 5-22=-4465/1076, 5-21=-276/1840,
7-21=-2525/646, 7-19=-204/1368, 8-19=-1092/366, 8-17=-81/547, 10-15=-1063/246,
11-15=-82/780, 12-15=-462/230, 12-14=0/262

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-2-12, Interior(1) 6-2-12 to 15-3-10, Exterior(2) 15-3-10 to 23-9-7, Interior(1) 23-9-7
to 55-7-6, Exterior(2) 55-7-6 to 64-1-3, Interior(1) 64-1-3 to 69-8-12 zone; C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60

Job J1120-5567	Truss A9	Truss Type HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:37 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-wDFpT_rAg?cNvFZG1VdbKY1MwhZ?hC2it4ZsQvzFFg0

NOTES-

- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) WARNING: Required bearing size at joint(s) 22 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 426 lb uplift at joint 22, 201 lb uplift at joint 13 and 832 lb uplift at joint 1.
- 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

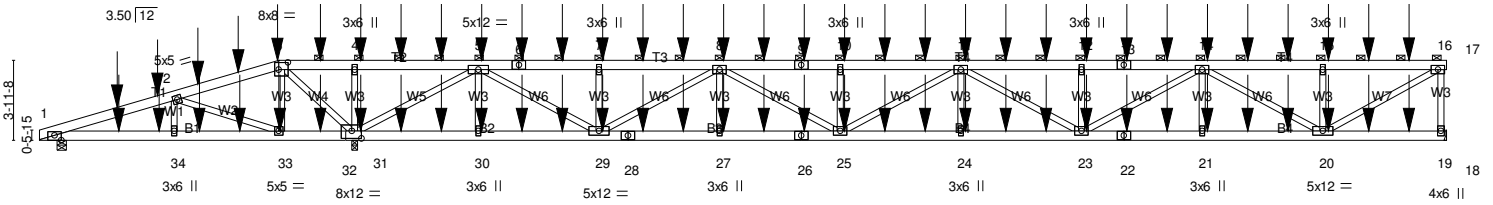
LOAD CASE(S) Standard

Job J1120-5567	Truss A10	Truss Type Half Hip Girder	Qty 1	Ply 3	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:49 2021 Page 1
 ID:Ny7UuD4B7kxMYTUDSooYI3z3d5K-ZX_L?5?ish7gL6UZk0qPp4XRfXoIvHNTdyTVqDzFFfq

6-8-5	11-10-8	15-7-12	21-9-5	27-9-2	33-8-15	39-8-12	45-8-8	51-8-5	57-8-2	63-7-15	69-9-8
6-8-5	5-2-3	3-9-4	6-1-9	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	6-1-9

Scale = 1:114.3



0-10-8	6-8-5	11-10-8	15-7-12	21-9-5	27-9-2	33-8-15	39-8-12	45-8-8	51-8-5	57-8-2	63-7-15	69-9-8
0-10-85-9-13	5-2-3	3-9-4	6-1-9	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	5-11-13	6-1-9

Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-5-8,0-4-4], [31:0-1-12,0-0-0], [32:0-0-0,0-2-12], [32:0-5-12,0-4-8]

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 0.65	Vert(LL)	-0.34 24-25	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.69 24-25	>942	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.06 19	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.34 24-25	>999	240		
								Weight: 1442 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-17.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 31=0-3-8 (min. 0-2-9), 1=0-5-8 (min. 0-1-8)
 Max Horz 1=114(LC 19)
 Max Uplift 19=-737(LC 5), 31=-1714(LC 4), 1=-1465(LC 1)
 Max Grav 19=3825(LC 1), 31=9315(LC 1), 1=431(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-35=-1439/5759, 35-36=-1439/5852, 2-36=-1450/5900, 2-37=-1581/7906,
 37-38=-1588/7952, 3-38=-1595/8043, 3-39=-2071/11074, 4-39=-2071/11075,
 4-40=-2071/11074, 40-41=-2071/11074, 5-41=-2071/11074, 5-6=-3586/753, 6-42=-3586/753,
 7-42=-3586/753, 7-43=-3586/753, 43-44=-3586/753, 8-44=-3586/753, 8-45=-11266/2215,
 9-45=-11266/2215, 9-10=-11266/2215, 10-46=-11266/2215, 46-47=-11266/2215,
 11-47=-11266/2215, 11-48=-11986/2336, 48-49=-11986/2336, 12-49=-11986/2336,
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 51-52=-5728/1111, 15-52=-5728/1111, 15-53=-5728/1111, 53-54=-5728/1111,
 16-54=-5728/1111, 16-19=-3687/783

BOT CHORD 1-55=-5507/1310, 55-56=-5507/1310, 34-56=-5507/1310, 34-57=-5507/1310,
 57-58=-5507/1310, 33-58=-5507/1310, 33-59=-7661/1516, 32-59=-7661/1516,
 31-32=-7661/1516, 31-60=-2951/508, 60-61=-2951/508, 30-61=-2951/508, 30-62=-2951/508,
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 64-65=-1662/8323, 27-65=-1662/8323, 27-66=-1662/8323, 26-66=-1662/8323,
 25-26=-1662/8323, 25-67=-2456/12541, 67-68=-2456/12541, 24-68=-2456/12541,
 24-69=-2456/12541, 69-70=-2456/12541, 23-70=-2456/12541, 22-23=-1901/9757,
 22-71=-1901/9757, 21-71=-1901/9757, 21-72=-1901/9757, 72-73=-1901/9757,
 20-73=-1901/9757

WEBS 2-34=0/650, 2-33=-2329/278, 3-33=0/694, 3-31=-4653/775, 4-31=-934/358,
 5-31=-9354/1801, 5-30=0/416, 5-29=-1444/7573, 7-29=-768/345, 8-29=-5487/1055,
 8-27=0/514, 8-25=-643/3409, 10-25=-739/343, 11-25=-1478/282, 11-24=0/522,
 11-23=-643/139, 12-23=-747/348, 14-23=-504/2583, 14-21=0/515, 14-20=-4667/915,
 15-20=-797/375, 16-20=-1277/6590

Job J1120-5567	Truss A10	Truss Type Half Hip Girder	Qty 1	Ply 3	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:49 2021 Page 2
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NOTES-

- 1) 3-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, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 5x8 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 737 lb uplift at joint 19, 1714 lb uplift at joint 31 and 1465 lb uplift at joint 1.
- 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) 169 lb down and 90 lb up at 3-11-4, 120 lb down and 66 lb up at 5-11-4, 119 lb down and 65 lb up at 7-11-4, 119 lb down and 73 lb up at 9-11-4, 138 lb down and 110 lb up at 11-10-8, 138 lb down and 110 lb up at 13-11-4, 138 lb down and 110 lb up at 15-11-4, 138 lb down and 110 lb up at 17-11-4, 138 lb down and 110 lb up at 19-11-4, 138 lb down and 110 lb up at 21-11-4, 138 lb down and 110 lb up at 23-11-4, 138 lb down and 110 lb up at 25-11-4, 138 lb down and 110 lb up at 27-11-4, 138 lb down and 110 lb up at 29-11-4, 138 lb down and 110 lb up at 31-11-4, 138 lb down and 110 lb up at 33-11-4, 138 lb down and 110 lb up at 35-11-4, 138 lb down and 110 lb up at 37-11-4, 138 lb down and 110 lb up at 39-11-4, 138 lb down and 110 lb up at 41-11-4, 138 lb down and 110 lb up at 43-11-4, 138 lb down and 110 lb up at 45-11-4, 138 lb down and 110 lb up at 47-11-4, 138 lb down and 110 lb up at 49-11-4, 138 lb down and 110 lb up at 51-11-4, 138 lb down and 110 lb up at 53-11-4, 138 lb down and 110 lb up at 55-11-4, 138 lb down and 110 lb up at 57-11-4, 138 lb down and 110 lb up at 59-11-4, 138 lb down and 110 lb up at 61-11-4, 138 lb down and 110 lb up at 63-11-4, and 138 lb down and 110 lb up at 65-11-4, and 138 lb down and 110 lb up at 67-11-4 on top chord, and 118 lb down at 3-11-4, 85 lb down at 5-11-4, 85 lb down at 7-11-4, 85 lb down at 9-11-4, 92 lb down at 11-11-4, 92 lb down at 13-11-4, 92 lb down at 15-11-4, 92 lb down at 17-11-4, 92 lb down at 19-11-4, 92 lb down at 21-11-4, 92 lb down at 23-11-4, 92 lb down at 25-11-4, 92 lb down at 27-11-4, 92 lb down at 29-11-4, 92 lb down at 31-11-4, 92 lb down at 33-11-4, 92 lb down at 35-11-4, 92 lb down at 37-11-4, 92 lb down at 39-11-4, 92 lb down at 41-11-4, 92 lb down at 43-11-4, 92 lb down at 45-11-4, 92 lb down at 47-11-4, 92 lb down at 49-11-4, 92 lb down at 51-11-4, 92 lb down at 53-11-4, 92 lb down at 55-11-4, 92 lb down at 57-11-4, 92 lb down at 59-11-4, 92 lb down at 61-11-4, 92 lb down at 63-11-4, and 92 lb down at 65-11-4, and 92 lb down at 67-11-4 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, 3-16=-60, 16-17=-20, 1-18=-20

Concentrated Loads (lb)

Vert: 3=-138(F) 6=-138(F) 33=-46(F) 31=-46(F) 4=-138(F) 5=-138(F) 30=-46(F) 29=-46(F) 7=-138(F) 8=-138(F) 27=-46(F) 10=-138(F) 25=-46(F) 24=-46(F) 11=-138(F) 12=-138(F) 23=-46(F) 21=-46(F) 14=-138(F) 15=-138(F) 20=-46(F) 13=-138(F) 9=-138(F) 22=-46(F) 26=-46(F) 35=-169(F) 36=-120(F) 37=-119(F) 38=-119(F) 39=-138(F) 40=-138(F) 41=-138(F) 42=-138(F) 43=-138(F) 44=-138(F) 45=-138(F) 46=-138(F) 47=-138(F) 48=-138(F) 49=-138(F) 50=-138(F) 51=-138(F) 52=-138(F) 53=-138(F) 54=-138(F) 55=-86(F) 56=-64(F) 57=-64(F) 58=-64(F) 59=-46(F) 60=-46(F) 61=-46(F) 62=-46(F) 63=-46(F) 64=-46(F) 65=-46(F) 66=-46(F) 67=-46(F) 68=-46(F) 69=-46(F) 70=-46(F) 71=-46(F) 72=-46(F) 73=-46(F) 74=-46(F) 75=-46(F)

Job J1120-5567	Truss B1	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:51 2021 Page 2
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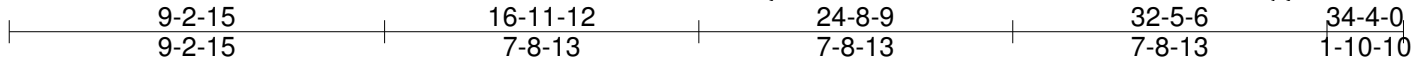
NOTES-

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

LOAD CASE(S) Standard

Job J1120-5567	Truss B2	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

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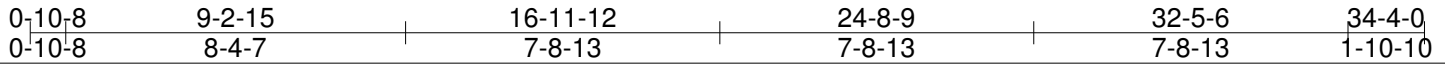
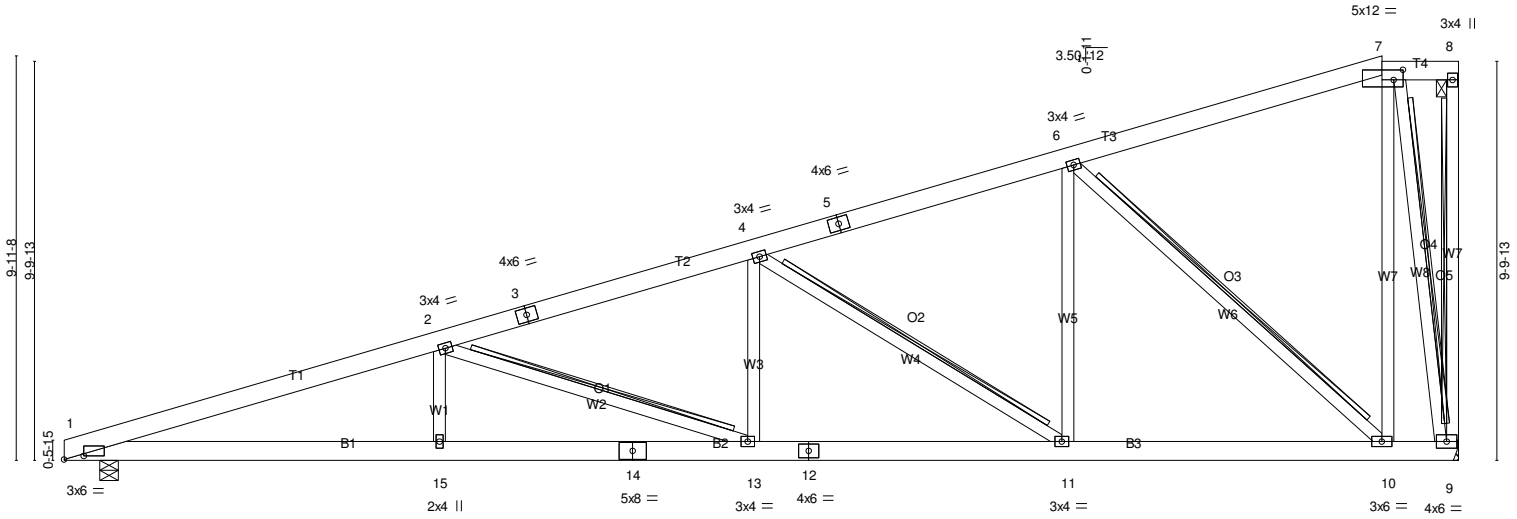


Plate Offsets (X,Y)-- [1:0-5-13,0-1-1], [7:0-2-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.16 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.32 13-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.08 9 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.13 13-15 >999 240		
				Weight: 264 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 3-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-9, 2-13, 4-11, 6-10, 7-9
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. (size) 9=Mechanical, 1=0-5-8 (min. 0-1-10)
Max Horz 1=305(LC 8)
Max Uplift 9=-188(LC 8), 1=-104(LC 8)
Max Grav 9=1358(LC 1), 1=1358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-3654/466, 2-16=-3593/484, 2-3=-2547/298, 3-4=-2479/322, 4-5=-1464/173,
5-6=-1347/196, 6-17=-308/4
BOT CHORD 1-15=-750/3446, 14-15=-750/3446, 13-14=-750/3446, 12-13=-522/2380, 11-12=-522/2380,
11-18=-325/1346, 10-18=-325/1346
WEBS 2-15=0/361, 2-13=-1130/276, 4-13=-5/575, 4-11=-1229/254, 6-11=-44/893,
6-10=-1515/354, 7-10=-130/1116, 7-9=-1329/354

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 32-5-6, Exterior(2) 32-5-6 to 34-2-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=188, 1=104.

Job J1120-5567	Truss B2	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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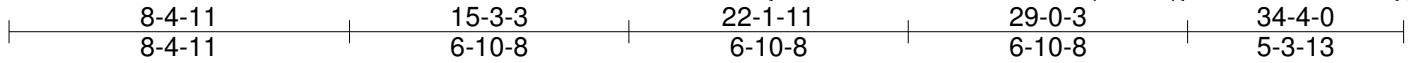
NOTES-

- 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 J1120-5567	Truss B3	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:53 2021 Page 1
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Scale = 1:56.7

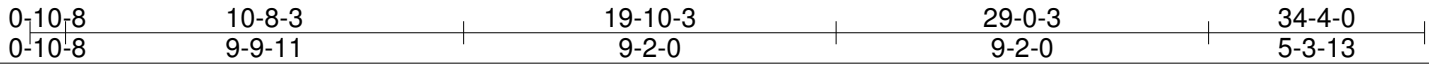
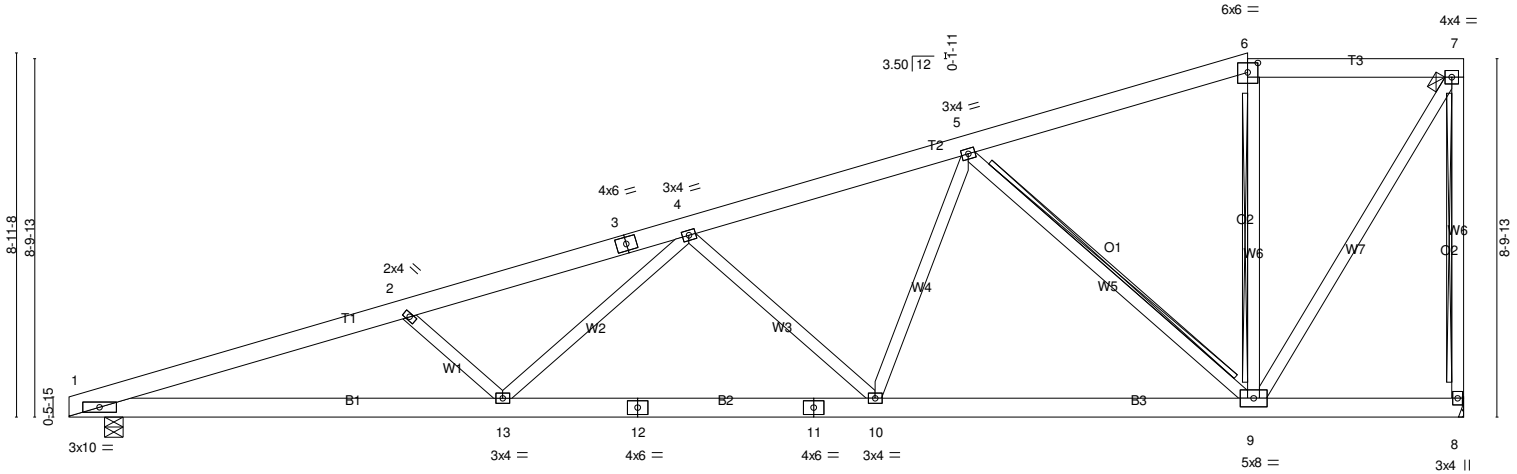


Plate Offsets (X,Y)-- [6:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.15 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.30 1-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.12 10-13 >999 240		
				Weight: 247 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 3-6-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 Rigid ceiling directly applied or 8-6-15 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 7-8, 5-9, 6-9
 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) 8=Mechanical, 1=0-5-8 (min. 0-1-10)
 Max Horz 1=273(LC 12)
 Max Uplift 8=-179(LC 8), 1=-112(LC 8)
 Max Grav 8=1406(LC 2), 1=1358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-14=-3690/572, 2-14=-3627/587, 2-3=-3324/468, 3-4=-3217/489, 4-5=-2080/350,
 5-15=-804/142, 6-15=-793/165, 6-16=-715/190, 7-16=-718/190, 7-8=-1324/392
 BOT CHORD 1-13=-836/3485, 12-13=-621/2567, 11-12=-621/2567, 10-11=-621/2567, 10-17=-442/1662,
 17-18=-442/1662, 9-18=-442/1662
 WEBS 2-13=-492/269, 4-13=-89/790, 4-10=-871/245, 5-10=-67/868, 5-9=-1290/340,
 7-9=-363/1384

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 29-0-3, Exterior(2) 29-0-3 to 34-2-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=179, 1=112.

Job J1120-5567	Truss B3	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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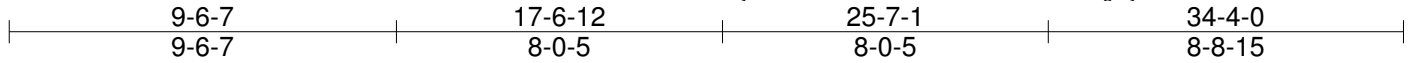
NOTES-

- 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 J1120-5567	Truss B4	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

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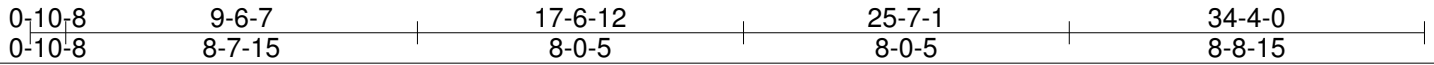
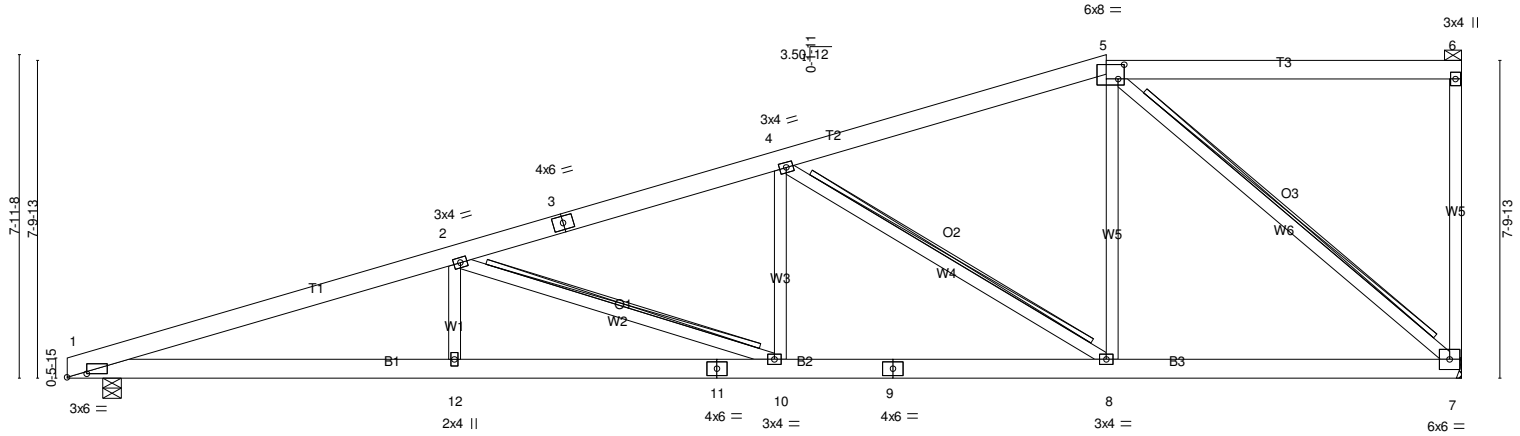


Plate Offsets (X,Y)-- [1:0-5-13,0-1-1], [5:0-1-12,0-4-4]

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 0.60	Vert(LL)	-0.16 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.32 10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.13 10-12	>999	240	Weight: 236 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 3-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-10, 4-8
2x6 SPF No.2 - 5-7
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) 7=Mechanical, 1=0-5-8 (min. 0-1-10)
Max Horz 1=241(LC 12)
Max Uplift 7=-172(LC 8), 1=-120(LC 8)
Max Grav 7=1358(LC 1), 1=1358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-3630/580, 2-13=-3569/597, 2-3=-2479/454, 3-4=-2409/478, 4-14=-1324/270, 5-14=-1256/293
BOT CHORD 1-12=-803/3421, 11-12=-803/3421, 10-11=-803/3421, 9-10=-597/2313, 8-9=-597/2313, 8-17=-324/1225, 7-17=-324/1225
WEBS 2-12=0/376, 2-10=-1174/279, 4-10=-5/596, 4-8=-1306/323, 5-8=-57/941, 5-7=-1602/423

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 25-7-1, Exterior(2) 25-7-1 to 31-9-12, Interior(1) 31-9-12 to 34-2-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=172, 1=120.

Job J1120-5567	Truss B4	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Job Reference (optional)

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

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NOTES-

- 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 J1120-5567	Truss B5	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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NOTES-

- 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 J1120-5567	Truss B6	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:55 2021 Page 2
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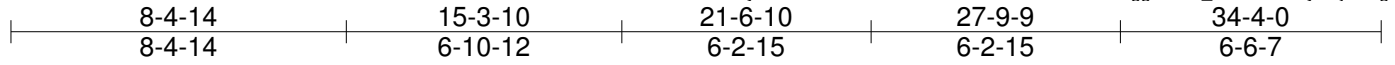
NOTES-

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B7	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:56 2021 Page 1
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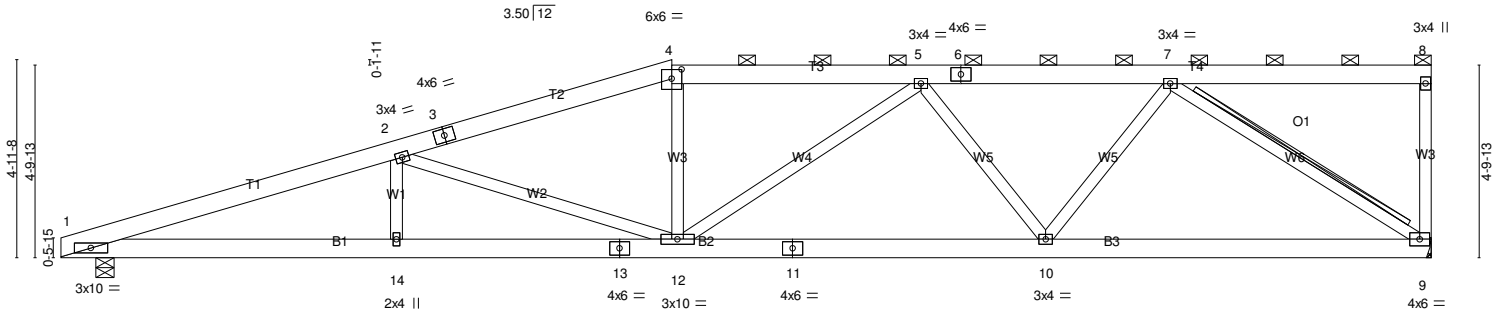


Plate Offsets (X,Y)-- [4:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.15 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.30 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.08 9 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.13 12-14 >999 240		
				Weight: 224 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 3-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 4-8.
 BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 7-9
 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. (size) 9=Mechanical, 1=0-5-8 (min. 0-1-10)
 Max Horz 1=143(LC 12)
 Max Uplift 9=-155(LC 8), 1=-137(LC 8)
 Max Grav 9=1358(LC 1), 1=1358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-3709/831, 2-15=-3647/847, 2-16=-2775/652, 3-16=-2763/655, 3-4=-2710/674,
 4-5=-2625/682, 5-6=-2143/486, 6-7=-2143/486
 BOT CHORD 1-14=-942/3501, 13-14=-942/3501, 12-13=-942/3501, 11-12=-637/2498, 10-11=-637/2498,
 9-10=-430/1643
 WEBS 2-14=0/307, 2-12=-946/276, 4-12=0/446, 5-10=-610/263, 7-10=-101/858, 7-9=-1964/519

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 15-3-10, Exterior(2) 15-3-10 to 21-6-10, Interior(1) 21-6-10 to 34-2-4 zone; 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) except (jt=lb) 9=155, 1=137.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.

Continued on page 2

Job J1120-5567	Truss B7	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

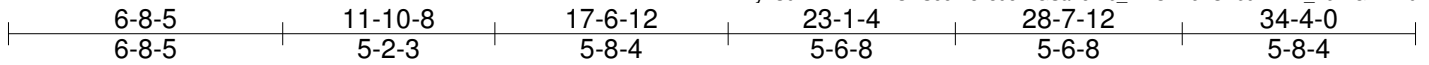
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NOTES-

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B8	Truss Type Half Hip Girder	Qty 1	Ply 3	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor			Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:18:59 2021 Page 1		
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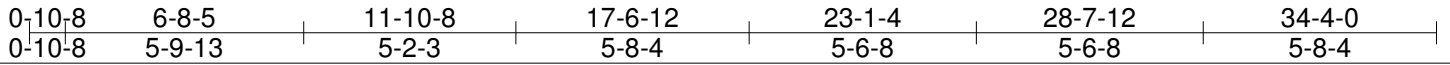
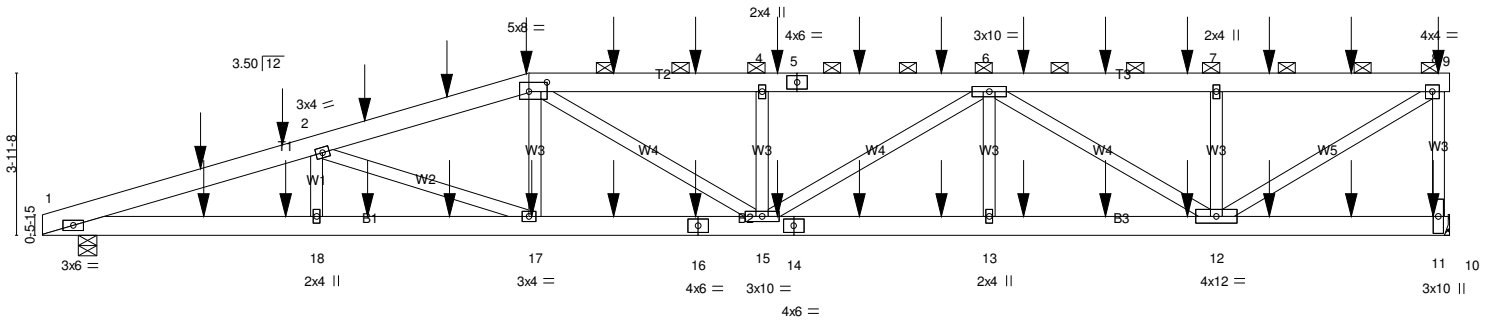


Plate Offsets (X,Y)-- [3:0-5-4,0-2-12]

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 0.53	Vert(LL)	-0.12	15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.24	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.06	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	15	>999		
								Weight: 692 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 1=0-5-8 (min. 0-1-8)
Max Horz 1=114(LC 4)
Max Uplift 1=555(LC 4), 1=364(LC 4)
Max Grav 11=3024(LC 1), 1=2728(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-8031/1110, 19-20=-7928/1093, 2-20=-7857/1093, 2-21=-6747/1072, 21-22=-6669/1073, 3-22=-6625/1068, 3-23=-7068/1230, 23-24=-7067/1230, 4-24=-7067/1230, 4-25=-7067/1230, 5-25=-7067/1230, 5-26=-7067/1230, 26-27=-7067/1230, 6-27=-7067/1230, 6-28=-3852/697, 28-29=-3852/697, 29-30=-3852/697, 7-30=-3852/697, 7-31=-3852/697, 31-32=-3852/697, 8-32=-3852/697, 8-11=-2864/625
BOT CHORD 1-33=-1136/7614, 33-34=-1136/7614, 18-34=-1136/7614, 18-35=-1136/7614, 35-36=-1136/7614, 17-36=-1136/7614, 17-37=-1045/6433, 16-37=-1045/6433, 15-16=-1045/6433, 15-38=-1109/6211, 14-38=-1109/6211, 14-39=-1109/6211, 39-40=-1109/6211, 13-40=-1109/6211, 13-41=-1109/6211, 41-42=-1109/6211, 42-43=-1109/6211, 12-43=-1109/6211
WEBS 2-18=0/444, 2-17=-1295/105, 3-17=0/843, 3-15=-240/745, 4-15=-728/347, 6-15=-144/1013, 6-13=0/470, 6-12=-2790/487, 7-12=-745/348, 8-12=-818/4526

- NOTES-**
- 3-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, 2x4 - 1 row 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.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 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.

Continued on page 2

Job J1120-5567	Truss B8	Truss Type Half Hip Girder	Qty 1	Ply 3	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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NOTES-

- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=555, 1=364.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 90 lb up at 3-11-4, 120 lb down and 66 lb up at 5-11-4, 119 lb down and 65 lb up at 7-11-4, 119 lb down and 73 lb up at 9-11-4, 138 lb down and 110 lb up at 11-10-8, 138 lb down and 110 lb up at 13-11-4, 138 lb down and 110 lb up at 15-11-4, 138 lb down and 110 lb up at 17-11-4, 138 lb down and 110 lb up at 19-11-4, 138 lb down and 110 lb up at 21-11-4, 138 lb down and 110 lb up at 23-11-4, 138 lb down and 110 lb up at 25-11-4, 138 lb down and 110 lb up at 27-11-4, 138 lb down and 110 lb up at 29-11-4, and 138 lb down and 110 lb up at 31-11-4, and 161 lb down and 105 lb up at 34-0-12 on top chord, and 118 lb down at 3-11-4, 85 lb down at 5-11-4, 85 lb down at 7-11-4, 85 lb down at 9-11-4, 92 lb down at 11-11-4, 92 lb down at 13-11-4, 92 lb down at 15-11-4, 92 lb down at 17-11-4, 92 lb down at 19-11-4, 92 lb down at 21-11-4, 92 lb down at 23-11-4, 92 lb down at 25-11-4, 92 lb down at 27-11-4, 92 lb down at 29-11-4, and 92 lb down at 31-11-4, and 104 lb down at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

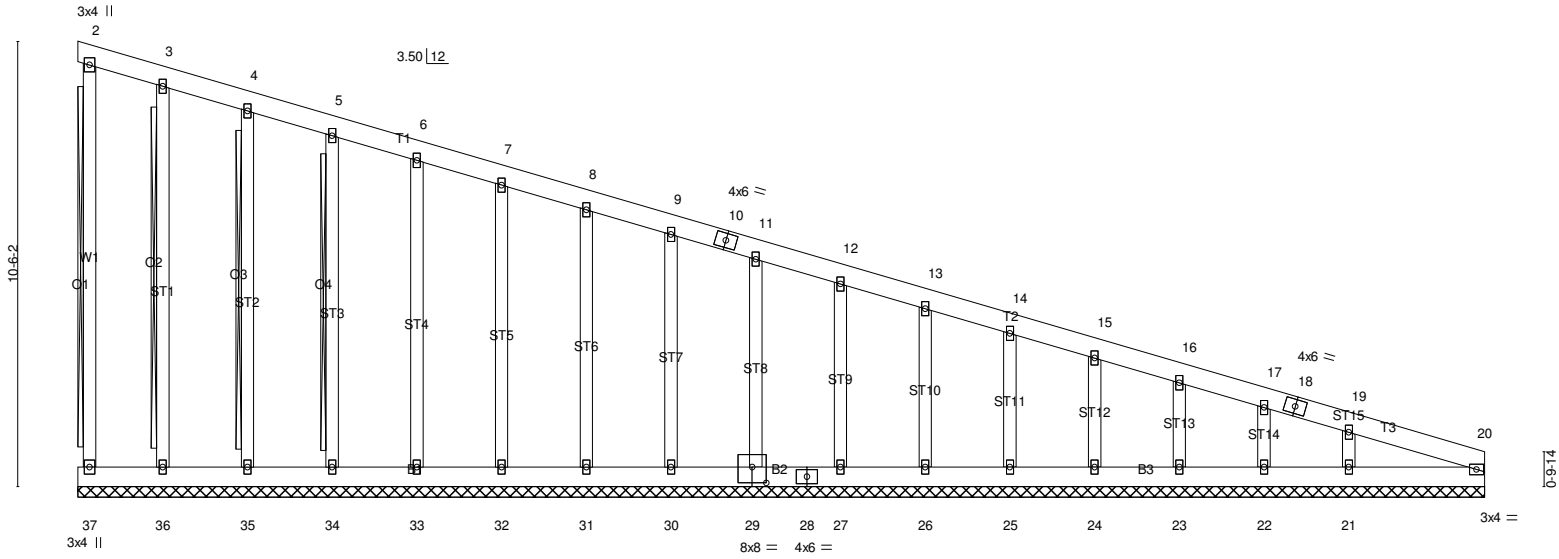
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-60, 3-8=-60, 8-9=-20, 1-10=-20
- Concentrated Loads (lb)
 - Vert: 3=-138(B) 8=-161(B) 11=-52(B) 16=-46(B) 17=-46(B) 19=-169(B) 20=-120(B) 21=-119(B) 22=-119(B) 23=-138(B) 24=-138(B) 25=-138(B) 26=-138(B) 27=-138(B) 28=-138(B) 29=-138(B) 30=-138(B) 31=-138(B) 32=-138(B) 33=-86(B) 34=-64(B) 35=-64(B) 36=-64(B) 37=-46(B) 38=-46(B) 39=-46(B) 40=-46(B) 41=-46(B) 42=-46(B) 43=-46(B) 44=-46(B) 45=-46(B)

Job J1120-5567	Truss B9	Truss Type ROOF SPECIAL SUPPORT	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:00 2021 Page 1
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33-2-8
33-2-8

Scale = 1:54.4



33-2-8
33-2-8

Plate Offsets (X,Y)-- [29:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.01	29	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 283 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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.
WEBS T-Brace: 2x4 SPF No.2 - 2-37, 3-36, 4-35, 5-34
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. All bearings 33-2-8.
(lb) - Max Horz 1=-327(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 37, 36, 35, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 37, 1, 36, 35, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 20 except 21=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-184/586, 2-3=-189/579, 3-4=-178/550, 4-38=-156/517, 5-38=-166/514, 5-6=-155/486, 6-7=-145/454, 7-8=-134/423, 8-9=-123/392, 9-10=-106/360, 10-11=-112/354, 11-12=-102/330, 12-13=-91/299, 13-14=-80/267

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-0 to 4-4-13, Exterior(2) 4-4-13 to 33-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	1610 NORTHGATE
J1120-5567	B9	ROOF SPECIAL SUPPORT	1	1	Job Reference (optional)

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

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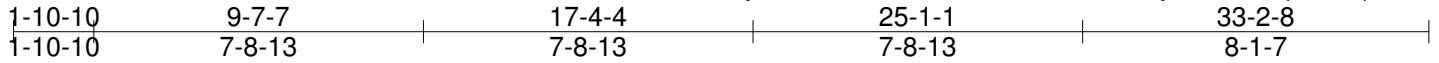
NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 36, 35, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20.
- 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B10	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

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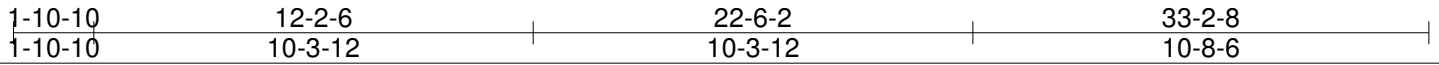
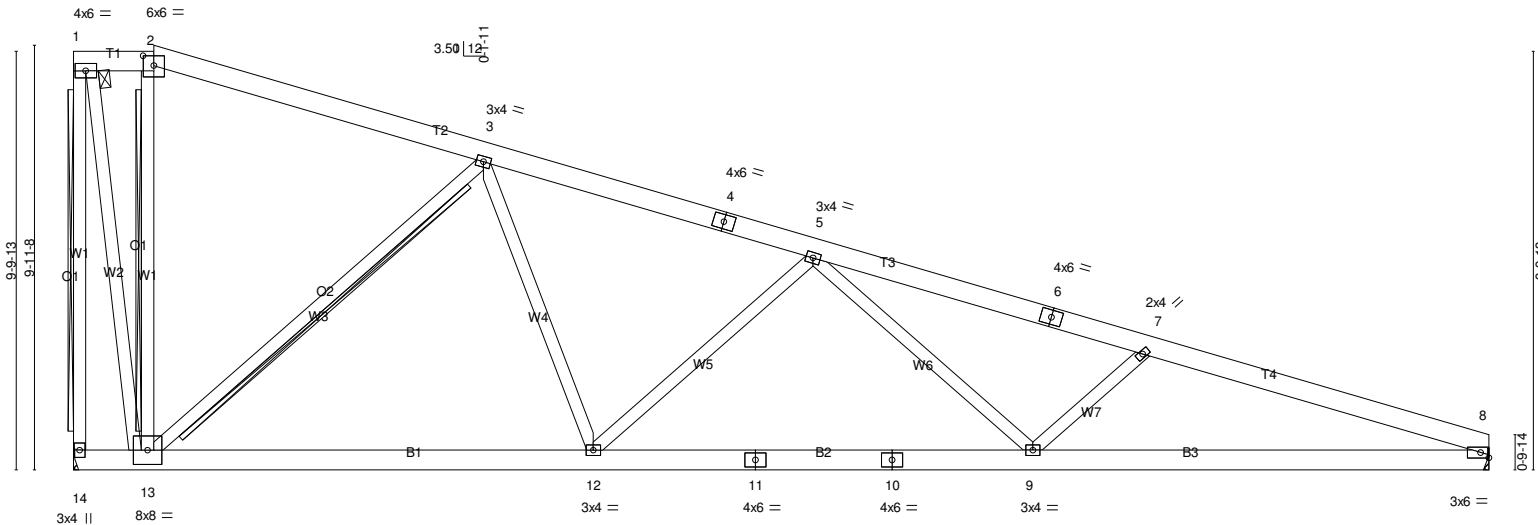


Plate Offsets (X,Y)-- [2:0-3-0,0-2-12]

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 0.70	Vert(LL) -0.17 12-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.29 12-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.09 9 >999 240		
				Weight: 250 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 3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 1-14, 2-13, 3-13
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) 14=Mechanical, 8=Mechanical
Max Horz 14=-306(LC 13)
Max Uplift 14=-185(LC 9), 8=-98(LC 9)
Max Grav 14=1320(LC 1), 8=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1435/291, 2-15=-258/21, 3-15=-318/0, 3-4=-1593/221, 4-5=-1703/198,
5-6=-2856/380, 6-7=-2924/356, 7-16=-3187/482, 8-16=-3256/465
BOT CHORD 13-14=-165/368, 13-17=0/1274, 17-18=0/1274, 12-18=0/1274, 11-12=-157/2219,
10-11=-157/2219, 9-10=-157/2219, 8-9=-381/3037
WEBS 1-13=-310/1434, 3-13=-1417/370, 3-12=-69/946, 5-12=-894/268, 5-9=-78/727,
7-9=-409/268

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 8-1-5, Interior(1) 8-1-5 to 33-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 14=185.

Job J1120-5567	Truss B10	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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NOTES-

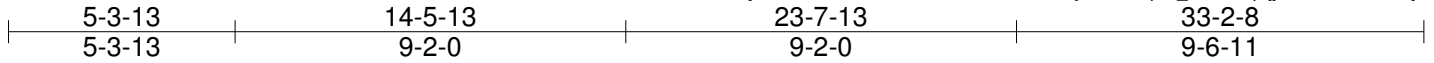
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B11	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:02 2021 Page 1
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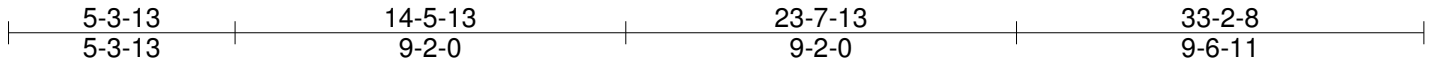
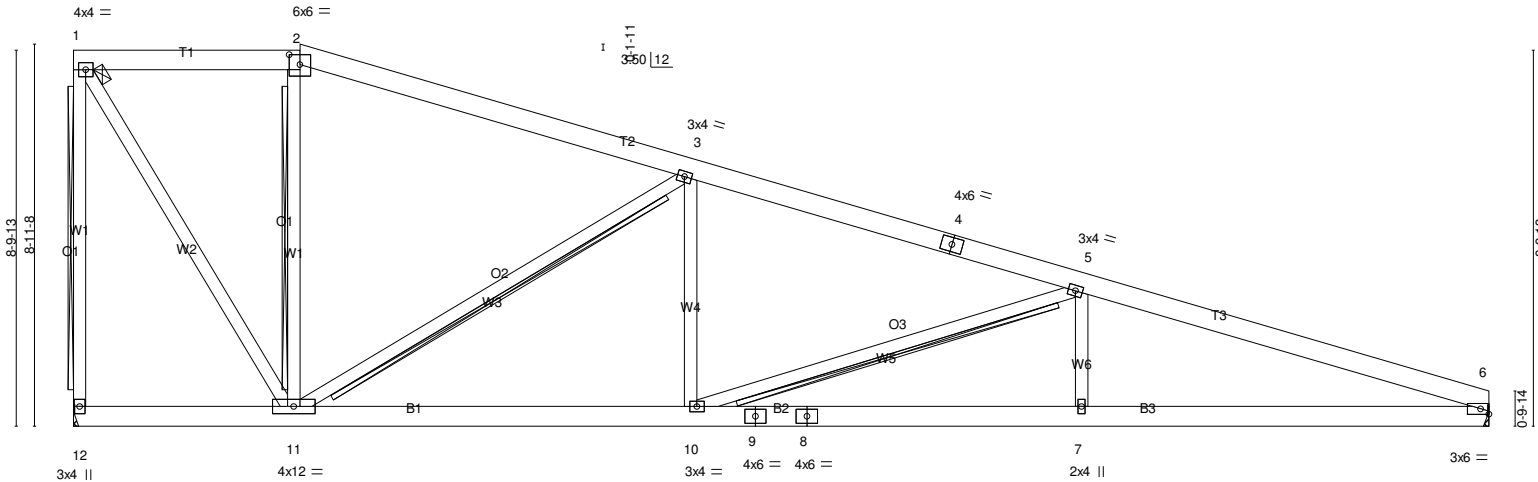


Plate Offsets (X,Y)-- [2:0-3-0,0-2-12]

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 0.62	Vert(LL) -0.13 7-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.27 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.07 6 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.10 7 >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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 1-12, 2-11, 3-11, 5-10
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. (size) 12=Mechanical, 6=Mechanical
Max Horz 12=-273(LC 13)
Max Uplift 12=-176(LC 9), 6=-107(LC 9)
Max Grav 12=1351(LC 2), 6=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1287/387, 1-13=-698/192, 2-13=-695/193, 2-14=-729/157, 3-14=-812/137,
3-4=-1960/351, 4-5=-2099/323, 5-15=-3166/469, 6-15=-3231/450
BOT CHORD 12-16=-149/332, 11-16=-149/332, 11-17=-159/1942, 10-17=-159/1942, 9-10=-375/3010,
8-9=-375/3010, 7-8=-375/3010, 6-7=-375/3010
WEBS 1-11=-369/1347, 3-11=-1463/350, 3-10=0/652, 5-10=-1129/285, 5-7=0/399

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-3-13, Exterior(2) 5-3-13 to 11-6-7, Interior(1) 11-6-7 to 33-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=176, 6=107.
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.

Continued on page 2

Job J1120-5567	Truss B11	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:02 2021 Page 2
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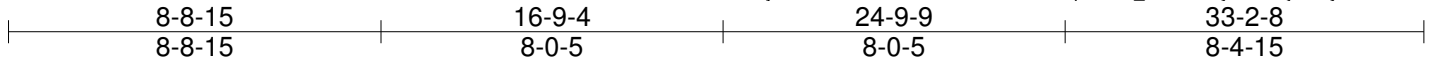
NOTES-

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B12	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:03 2021 Page 1
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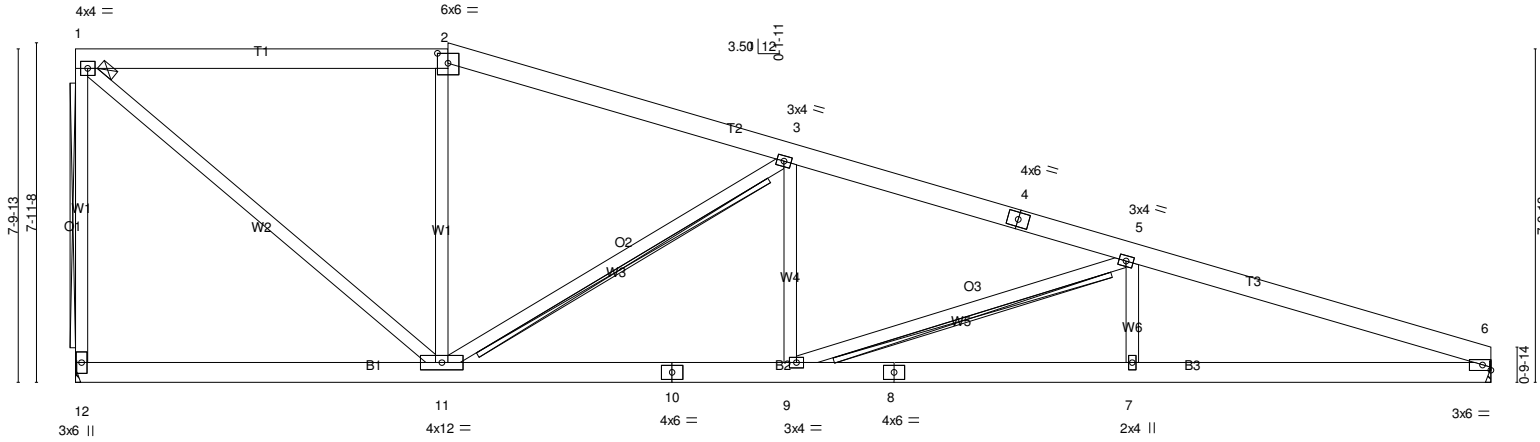


Plate Offsets (X,Y)-- [2:0-3-0,0-2-12]

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 0.61	Vert(LL) -0.13 7-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.26 7-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.06 6 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.10 7-9 >999 240		
				Weight: 231 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 3-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 1-12, 3-11, 5-9
 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) 12=Mechanical, 6=Mechanical
 Max Horz 12=-241(LC 13)
 Max Uplift 12=-168(LC 9), 6=-115(LC 9)
 Max Grav 12=1322(LC 2), 6=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-1246/403, 1-13=-1162/313, 13-14=-1161/313, 2-14=-1160/313, 2-15=-1210/286,
 3-15=-1278/262, 3-4=-2285/458, 4-5=-2352/433, 5-16=-3214/544, 6-16=-3282/526
 BOT CHORD 12-17=-124/292, 11-17=-124/292, 10-11=-282/2194, 9-10=-282/2194, 8-9=-452/3059,
 7-8=-452/3059, 6-7=-452/3059
 WEBS 1-11=-407/1521, 3-11=-1218/310, 3-9=0/539, 5-9=-916/244, 5-7=0/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-8-15, Exterior(2) 8-8-15 to 14-11-10, Interior(1) 14-11-10 to 33-1-12 zone; 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) except (jt=lb) 12=168, 6=115.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.

Job J1120-5567	Truss B12	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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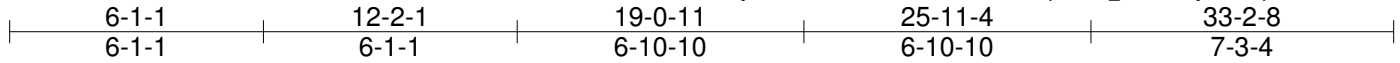
NOTES-

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B13	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:03 2021 Page 1
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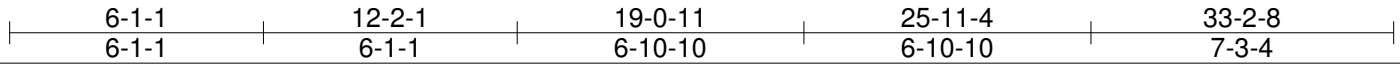
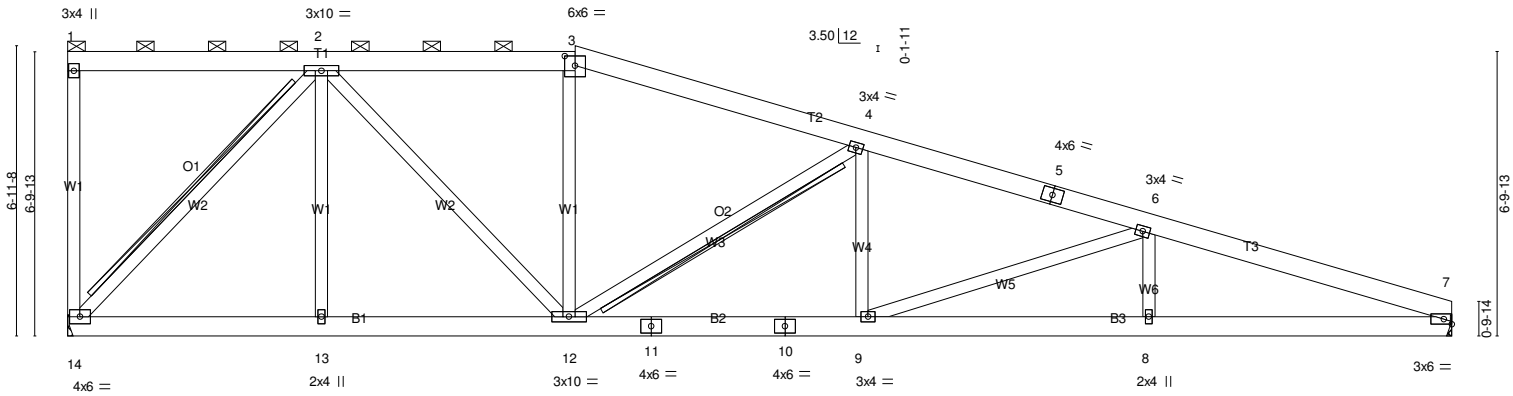


Plate Offsets (X,Y)-- [3:0-3:0,0-2-12]

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 0.60	Vert(LL) -0.12 8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.24 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.09 8-9 >999 240		
				Weight: 239 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 3-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 2-14, 4-12
 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) 14=Mechanical, 7=Mechanical
 Max Horz 14=-208(LC 13)
 Max Uplift 14=-162(LC 9), 7=-122(LC 9)
 Max Grav 14=1321(LC 2), 7=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1589/430, 3-16=-1697/412, 4-16=-1707/390, 4-5=-2548/561, 5-6=-2604/540,
 6-17=-3235/613, 7-17=-3307/598
 BOT CHORD 14-18=-19/1066, 13-18=-19/1066, 13-19=-19/1066, 12-19=-19/1066, 11-12=-402/2446,
 10-11=-402/2446, 9-10=-402/2446, 8-9=-523/3080, 7-8=-523/3080
 WEBS 2-14=-1552/405, 2-13=0/367, 2-12=-220/783, 4-12=-1022/274, 4-9=0/456, 6-9=-674/199,
 6-8=0/290

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFERS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-2-1, Exterior(2) 12-2-1 to 18-4-12, Interior(1) 18-4-12 to 33-1-12 zone; C-C for members and forces & MWFERS 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=162, 7=122.

Job J1120-5567	Truss B13	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:03 2021 Page 2
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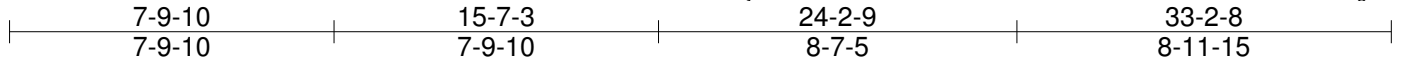
NOTES-

- 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 J1120-5567	Truss B14	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:04 2021 Page 1
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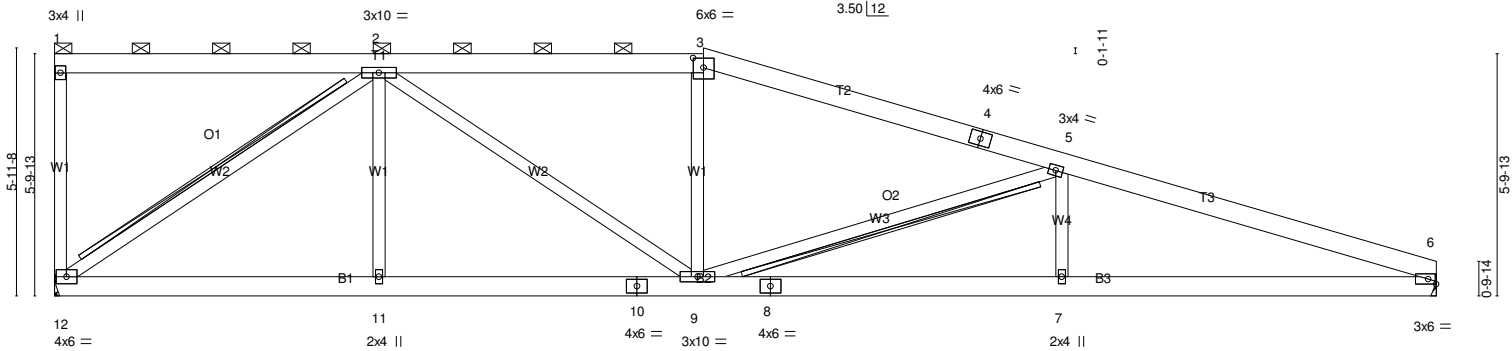


Plate Offsets (X,Y)-- [3:0-3-0,0-2-12]

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 0.61	Vert(LL) -0.12 7-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.26 7-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.07 6 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.10 7-9 >999 240		
				Weight: 222 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 3-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-6 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-12, 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. (size) 12=Mechanical, 6=Mechanical
Max Horz 12=-175(LC 13)
Max Uplift 12=-156(LC 9), 6=-128(LC 9)
Max Grav 12=1320(LC 1), 6=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-2046/546, 3-14=-2044/547, 3-15=-2119/527, 4-15=-2159/507, 4-5=-2200/503,
5-16=-3205/702, 6-16=-3271/682
BOT CHORD 11-12=-168/1530, 10-11=-168/1530, 9-10=-168/1530, 8-9=-602/3050, 7-8=-602/3050,
6-7=-602/3050
WEBS 2-12=-1849/472, 2-11=0/327, 2-9=-188/627, 3-9=0/297, 5-9=-1068/292, 5-7=0/382

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-7-3, Exterior(2) 15-7-3 to 21-9-14, Interior(1) 21-9-14 to 33-1-12 zone; 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) except (jt=lb) 12=156, 6=128.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.

Job J1120-5567	Truss B14	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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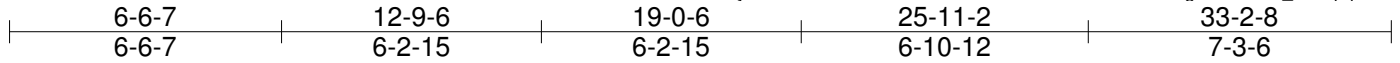
NOTES-

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job J1120-5567	Truss B15	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:05 2021 Page 1
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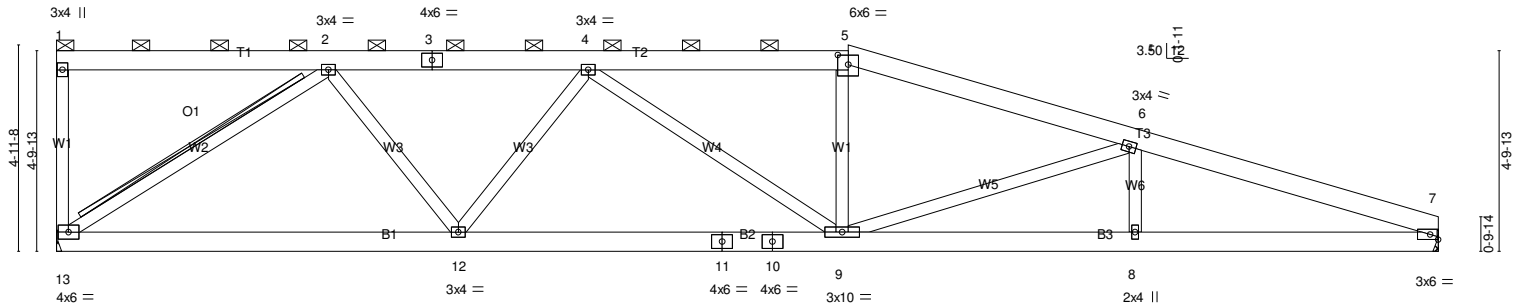


Plate Offsets (X,Y)-- [5:0-3-0,0-2-12]

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 0.60	Vert(LL) -0.12 8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.25 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.10 8-9 >999 240		
				Weight: 218 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 3-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-9 max.): 1-5.
BOT CHORD Rigid ceiling directly applied or 9-6-13 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-13
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) 13=Mechanical, 7=Mechanical
Max Horz 13=-143(LC 13)
Max Uplift 13=-151(LC 9), 7=-132(LC 9)
Max Grav 13=1320(LC 1), 7=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2059/470, 3-4=-2059/470, 4-5=-2464/647, 5-15=-2596/638, 6-15=-2607/615,
6-16=-3242/770, 7-16=-3314/753
BOT CHORD 12-13=-233/1587, 11-12=-428/2387, 10-11=-428/2387, 9-10=-428/2387, 8-9=-674/3089,
7-8=-674/3089
WEBS 2-13=-1896/506, 2-12=-93/811, 4-12=-562/254, 5-9=0/410, 6-9=-676/226, 6-8=0/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 19-0-6, Exterior(2) 19-0-6 to 25-3-0, Interior(1) 25-3-0 to 33-1-12 zone; 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) except (jt=lb) 13=151, 7=132.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.

Job J1120-5567	Truss B15	Truss Type HALF HIP	Qty 1	Ply 1	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:05 2021 Page 2
ID:Ny7UuD4B7kMYTUDSooY13z3d5K-5cxOMZBk4c8OGZiegN79TSBBJ_A0FvpqJRLLPzFFfa

NOTES-

- 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 J1120-5567	Truss B16	Truss Type Flat Girder	Qty 1	Ply 3	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:08 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooY13z3d5K-VBdX_bDdNXWz70RDLVgs45ppCBH6SLCG?Pa??czFFFX

NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=538, 13=527.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 138 lb down and 98 lb up at 1-4-4, 138 lb down and 98 lb up at 3-4-4, 138 lb down and 98 lb up at 5-4-4, 138 lb down and 98 lb up at 7-4-4, 138 lb down and 98 lb up at 9-4-4, 138 lb down and 98 lb up at 11-4-4, 138 lb down and 98 lb up at 13-4-4, 138 lb down and 98 lb up at 15-4-4, 138 lb down and 98 lb up at 17-4-4, 138 lb down and 98 lb up at 19-4-4, 138 lb down and 98 lb up at 21-4-4, 138 lb down and 98 lb up at 23-4-4, 138 lb down and 98 lb up at 25-4-4, 138 lb down and 98 lb up at 27-4-4, and 138 lb down and 98 lb up at 29-4-4, and 138 lb down and 98 lb up at 31-4-4 on top chord, and 92 lb down at 1-4-4, 92 lb down at 3-4-4, 92 lb down at 5-4-4, 92 lb down at 7-4-4, 92 lb down at 9-4-4, 92 lb down at 11-4-4, 92 lb down at 13-4-4, 92 lb down at 15-4-4, 92 lb down at 17-4-4, 92 lb down at 19-4-4, 92 lb down at 21-4-4, 92 lb down at 23-4-4, 92 lb down at 25-4-4, 92 lb down at 27-4-4, and 92 lb down at 29-4-4, and 92 lb down at 31-4-4 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)

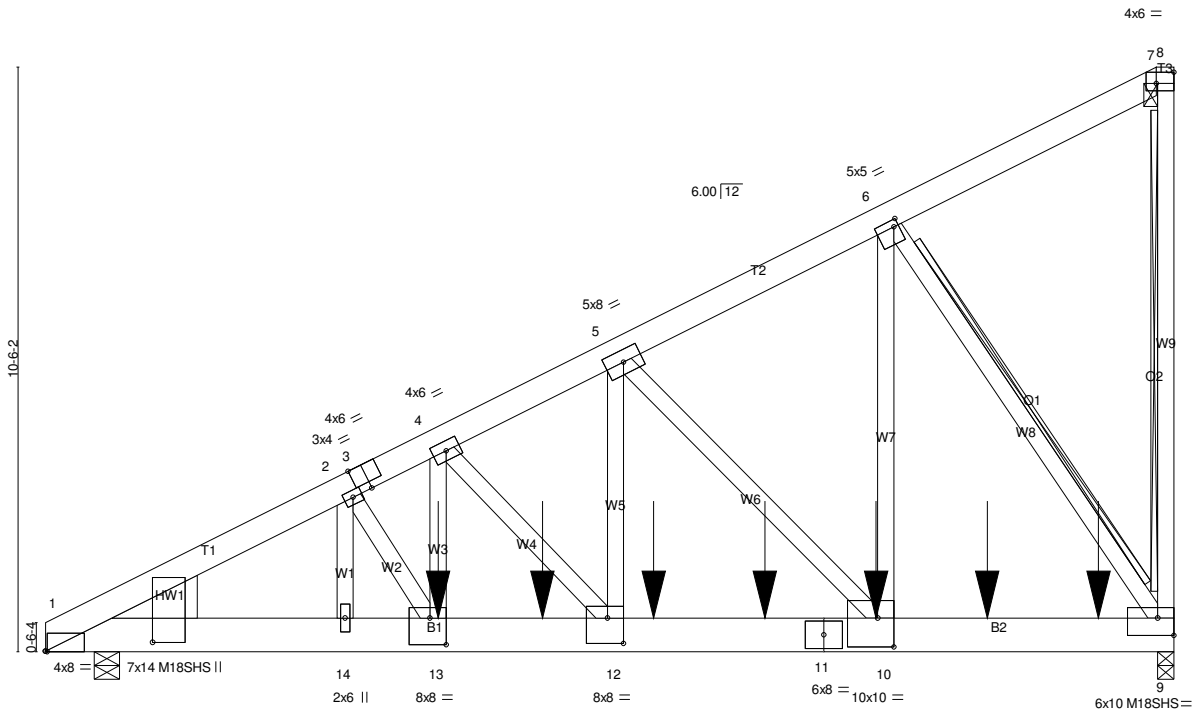
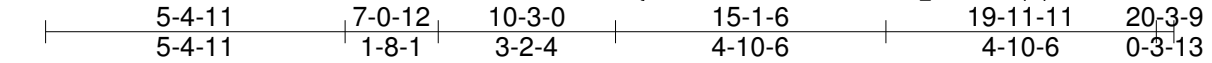
Vert: 1-2=-20, 2-10=-60, 10-11=-20, 12-22=-20

Concentrated Loads (lb)

Vert: 5=-138(B) 18=-46(B) 20=-46(B) 3=-138(B) 4=-138(B) 19=-46(B) 9=-138(B) 14=-46(B) 15=-46(B) 23=-138(B) 24=-138(B) 25=-138(B) 26=-138(B) 27=-138(B) 28=-138(B) 29=-138(B) 30=-138(B) 31=-138(B) 32=-138(B) 33=-138(B) 34=-138(B) 35=-46(B) 36=-46(B) 37=-46(B) 38=-46(B) 39=-46(B) 40=-46(B) 41=-46(B) 42=-46(B) 43=-46(B) 44=-46(B) 45=-46(B)

Job J1120-5567	Truss BG1	Truss Type Half Hip Girder	Qty 1	Ply 2	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

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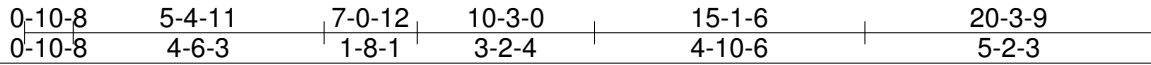


Plate Offsets (X,Y)-- [1:0-1-14,1-11-2], [1:0-0-6,Edge], [3:0-3-0,Edge], [6:0-1-0,0-1-8], [7:Edge,0-2-7], [7:0-0-0,0-1-12], [8:0-1-12,0-0-0], [9:Edge,0-3-12], [10:0-3-8,0-6-4], [12:0-3-8,0-5-8], [13:0-3-8,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL)	-0.11	12-13	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(CT)	-0.22	12-13	>999	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Horz(CT)	0.05	9	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.10	12-13	>999		
	Code IRC2015/TPI2014						Weight: 387 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 8-9 2x6 SPF No.2 - 6-9
WEDGE Left: 2x10 SP No.1	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) 9=0-3-8 (req. 0-4-6), 1=0-5-8 (min. 0-3-2)
 Max Horz 1=328(LC 8)
 Max Uplift 9=-1125(LC 8), 1=-702(LC 8)
 Max Grav 9=7365(LC 1), 1=5262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-10759/1451, 2-3=-10702/1485, 3-4=-10697/1491, 4-5=-8391/1095, 5-6=-4483/549
 BOT CHORD 1-14=-1563/9493, 13-14=-1563/9493, 13-15=-1552/9570, 12-15=-1552/9570,
 12-16=-1165/7487, 16-17=-1165/7487, 11-17=-1165/7487, 10-11=-1165/7487,
 10-18=-607/3982, 18-19=-607/3982, 19-20=-607/3982, 9-20=-607/3982
 WEBS 5-12=-746/5195, 5-10=-5074/808, 6-10=-1037/7543, 6-9=-7135/1087, 4-13=-577/3175,
 2-13=-262/286, 4-12=-3090/574

- 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, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.

Job J1120-5567	Truss BG1	Truss Type Half Hip Girder	Qty 1	Ply 2	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:09 2021 Page 2
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NOTES-

- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1125, 1=702.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3004 lb down and 575 lb up at 7-0-12, 1338 lb down and 175 lb up at 8-11-4, 1338 lb down and 180 lb up at 10-11-4, 1338 lb down and 185 lb up at 12-11-4, 1338 lb down and 192 lb up at 14-11-4, and 1352 lb down and 199 lb up at 16-11-4, and 1338 lb down and 208 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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: 1-7=-60, 7-8=-60, 1-9=-20
 - Concentrated Loads (lb)
 - Vert: 10=-1338(F) 13=-3004(F) 15=-1338(F) 16=-1338(F) 17=-1338(F) 18=-1338(F) 20=-1338(F)

Job J1120-5567	Truss BG2	Truss Type Half Hip Girder	Qty 1	Ply 2	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

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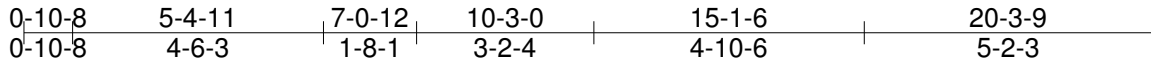
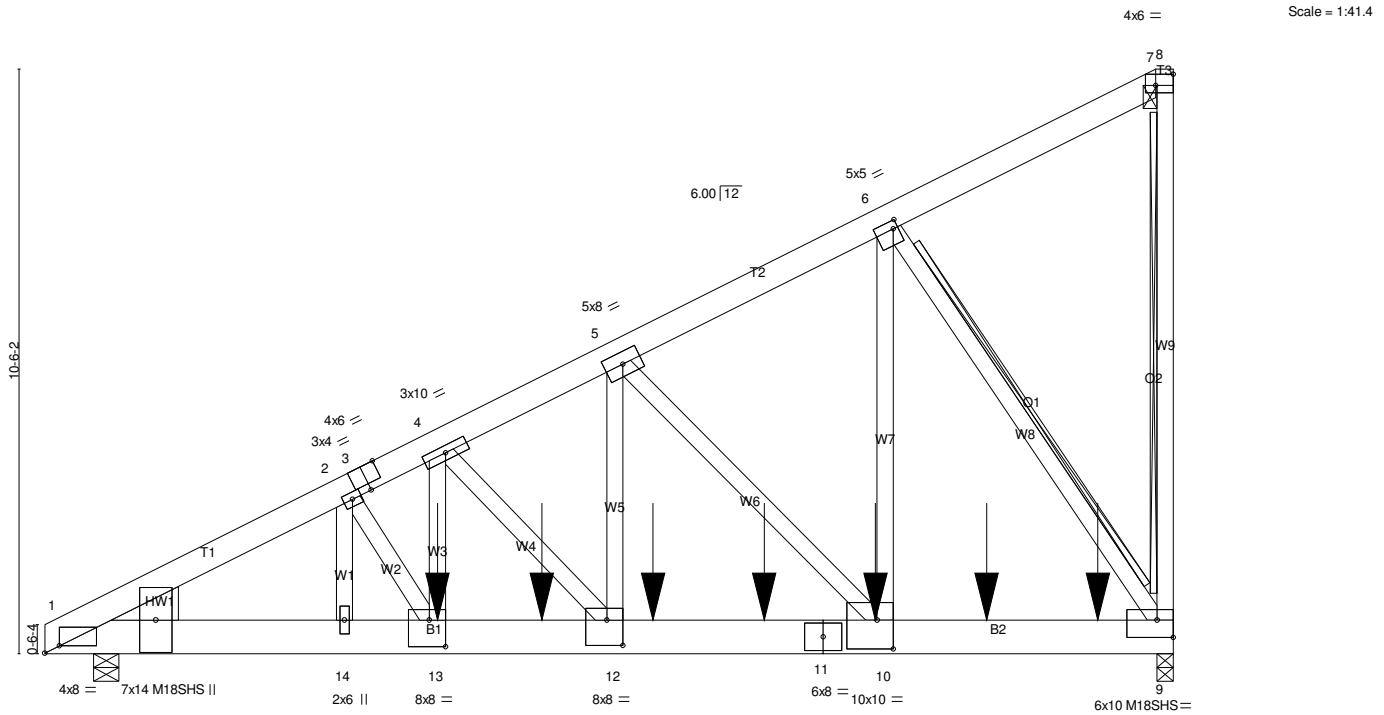
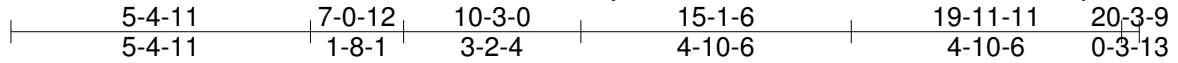


Plate Offsets (X,Y)-- [1:0-3-2,Edge], [3:0-3-0,Edge], [6:0-1-0,0-1-12], [7:Edge,0-2-7], [7:0-0-0,0-1-12], [8:0-1-12,0-0-0], [9:Edge,0-3-12], [10:0-3-8,0-6-4], [12:0-3-8,0-5-8], [13:0-3-8,0-5-12]

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 0.66	Vert(LL)	-0.11 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.21 12-13	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.05 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10 12-13	>999	240		
								Weight: 382 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
T3: 2x4 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1

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

REACTIONS. (size) 9=0-3-8 (req. 0-4-3), 1=0-5-8 (min. 0-3-0)
Max Horz 1=328(LC 8)
Max Uplift 9=-1105(LC 8), 1=-685(LC 8)
Max Grav 9=7131(LC 1), 1=5047(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-10305/1414, 2-3=-10247/1448, 3-4=-10242/1454, 4-5=-8077/1068, 5-6=-4335/537
BOT CHORD 1-14=-1530/9092, 13-14=-1530/9092, 13-15=-1518/9161, 12-15=-1518/9161,
12-16=-1141/7206, 16-17=-1141/7206, 11-17=-1141/7206, 10-11=-1141/7206,
10-18=-596/3849, 18-19=-596/3849, 19-20=-596/3849, 9-20=-596/3849
WEBS 5-12=-727/4966, 5-10=-4859/790, 6-10=-1015/7280, 6-9=-6897/1067, 4-13=-562/2975,
2-13=-262/272, 4-12=-2900/559

- 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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.

Job J1120-5567	Truss BG2	Truss Type Half Hip Girder	Qty 1	Ply 2	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:10 2021 Page 2
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NOTES-

- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1105, 1=685.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2785 lb down and 558 lb up at 7-0-12, 1300 lb down and 171 lb up at 8-11-4, 1300 lb down and 176 lb up at 10-11-4, 1301 lb down and 182 lb up at 12-11-4, 1300 lb down and 188 lb up at 14-11-4, and 1300 lb down and 196 lb up at 16-11-4, and 1300 lb down and 205 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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)

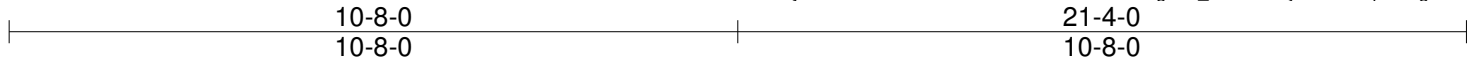
Vert: 1-7=-60, 7-8=-60, 1-9=-20

Concentrated Loads (lb)

Vert: 10=-1300(B) 13=-2785(B) 15=-1300(B) 16=-1300(B) 17=-1300(B) 18=-1300(B) 20=-1300(B)

Job J1120-5567	Truss C1	Truss Type Common Supported Gable	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:11 2021 Page 1
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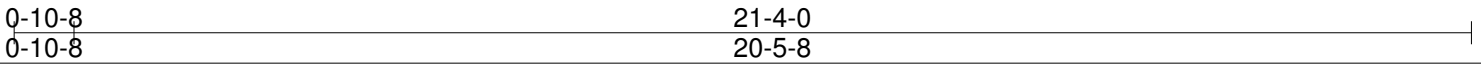
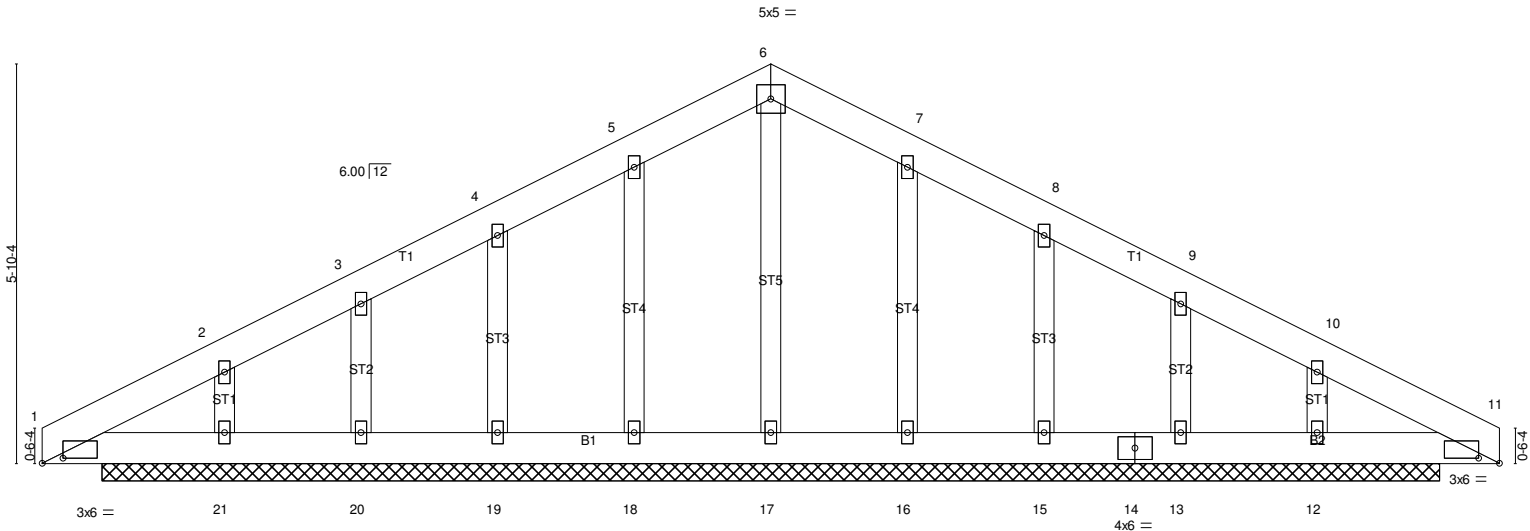


Plate Offsets (X,Y)-- [1:0-3-10,0-0-14], [11:0-3-10,0-0-14]

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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 143 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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 19-7-0.
(lb) - Max Horz 1=-70(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 20, 21, 16, 15, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 21, 16, 15, 13, 12

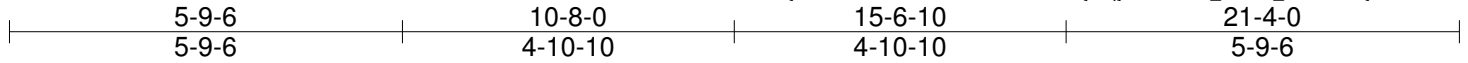
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-0 to 4-8-0, Exterior(2) 4-8-0 to 10-8-0, Corner(3) 10-8-0 to 15-0-13, Exterior(2) 15-0-13 to 21-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Solid blocking is required on both sides of the truss at joint(s), 1, 11.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 20, 21, 16, 15, 13, 12.
 - Non Standard bearing condition. Review required.
 - 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 J1120-5567	Truss C2	Truss Type Common	Qty 2	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:12 2021 Page 1
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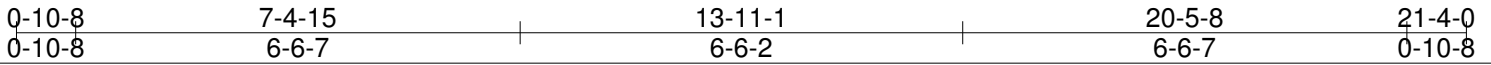
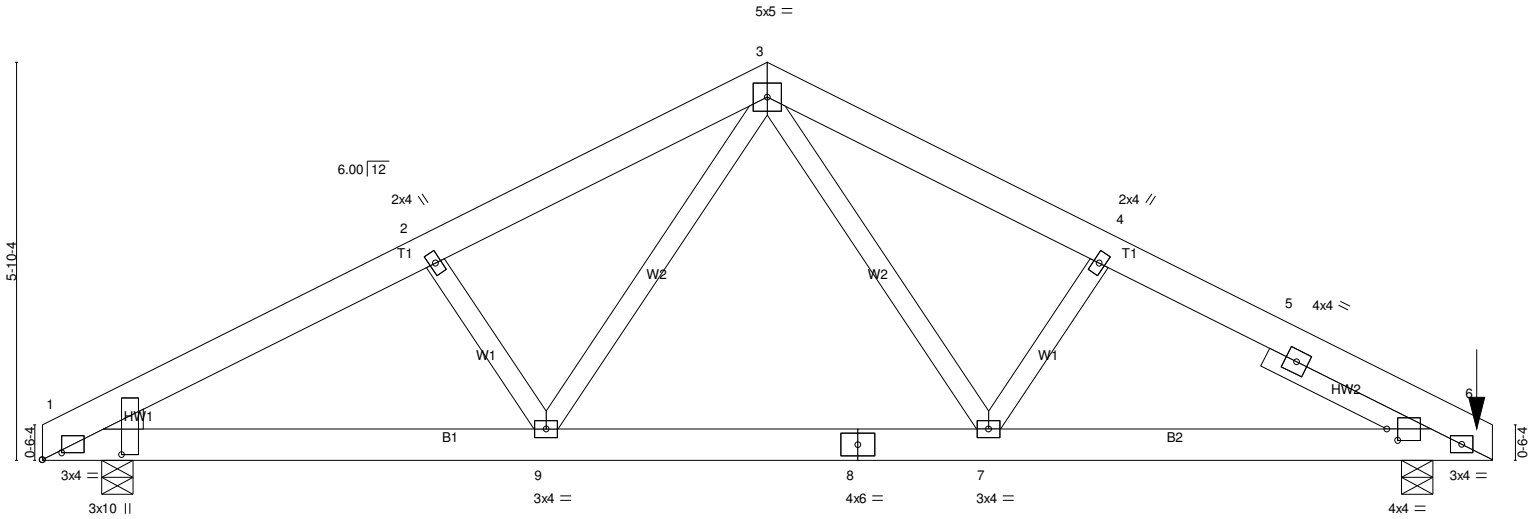


Plate Offsets (X, Y)-- [1:0-0-14,1-1-15], [1:0-3-6,0-1-3], [6:0-1-15,0-2-0]

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 0.29	Vert(LL)	-0.03	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.06	1-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.02	9	>999		
								Weight: 138 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
SLIDER Right 2x4 SP No.2 -t 2-7-14

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. (size) 6=0-5-8 (min. 0-3-5), 1=0-5-8 (min. 0-1-8)
Max Horz 1=-70(LC 8)
Max Uplift 6=-242(LC 13), 1=-50(LC 12)
Max Grav 6=2824(LC 1), 1=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1413/359, 2-10=-1291/376, 2-11=-1255/363, 3-11=-1182/388, 3-12=-1173/383,
4-12=-1243/358, 4-13=-1281/373, 5-13=-1333/359, 5-6=-1401/355
BOT CHORD 1-9=-252/1205, 8-9=-89/819, 7-8=-89/819, 6-7=-250/1194
WEBS 3-7=-103/457, 4-7=-291/205, 3-9=-108/471, 2-9=-297/209

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 21-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 except (jt=lb) 6=242.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1989 lb down and 194 lb up at 21-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

Job	Truss	Truss Type	Qty	Ply	1610 NORTHGATE
J1120-5567	C2	Common	2	1	Job Reference (optional)

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

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:12 2021 Page 2
ID:Ny7UuD4B7kxMYTUDSooY13z3d5K-Oyt2qyG7Ri1Pbel_aLloFx_SUoe6ODysw1YD8NzFFFT

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

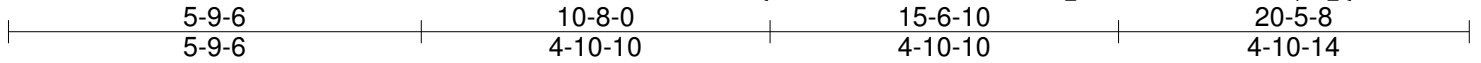
Concentrated Loads (lb)

Vert: 6=-1989(B)

Job J1120-5567	Truss C3	Truss Type Common Girder	Qty 1	Ply 2	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:14 2021 Page 1
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Scale: 3/8"=1'

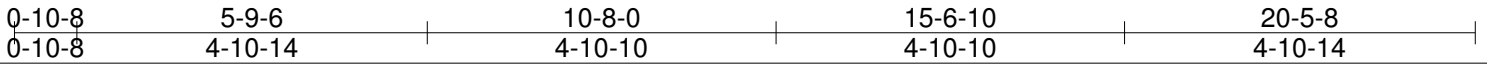
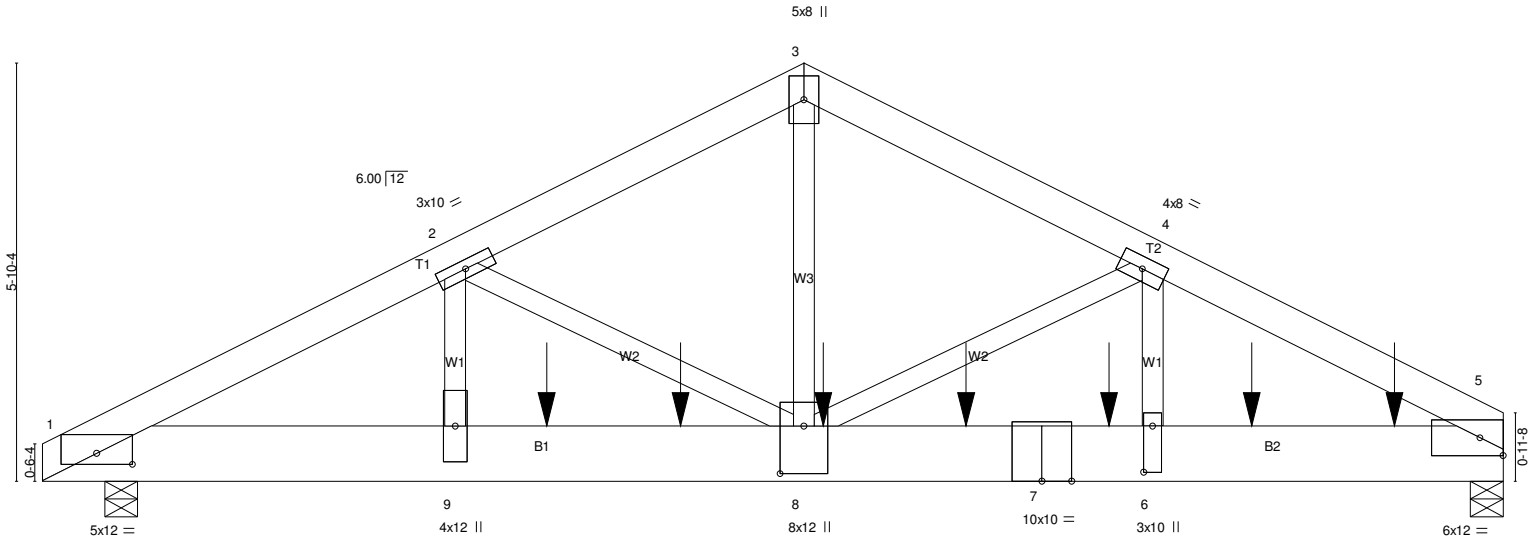


Plate Offsets (X,Y)-- [1:0-6-0,0-1-14], [6:0-7-12,0-1-8], [8:0-8-0,0-4-0]

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 0.75	Vert(LL)	-0.13	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.26	8-9	>940		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.06	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	8-9	>999		
								Weight: 327 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W3: 2x4 SP No.1

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

REACTIONS. (size) 1=0-5-8 (min. 0-2-14), 5=0-5-8 (min. 0-4-2)
Max Horz 1=68(LC 24)
Max Uplift 1=956(LC 8), 5=1186(LC 9)
Max Grav 1=6913(LC 1), 5=10033(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-14668/2067, 2-3=-11582/1545, 3-4=-11585/1550, 4-5=-15157/1844
BOT CHORD 1-9=-1852/13032, 9-10=-1852/13032, 10-11=-1852/13032, 8-11=-1852/13032,
8-12=-1531/12984, 7-12=-1531/12984, 7-13=-1531/12984, 6-13=-1531/12984,
6-14=-1531/12984, 14-15=-1531/12984, 5-15=-1531/12984
WEBS 2-9=-462/2722, 2-8=-3101/638, 3-8=-1285/9866, 4-8=-3064/345, 4-6=-336/3857

- 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: 2x10 - 2 rows staggered at 0-2-0 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 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) except (jt=lb) 1=956, 5=1186.
 - 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 J1120-5567	Truss C3	Truss Type Common Girder	Qty 1	Ply 2	1610 NORTHGATE Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:14 2021 Page 2
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NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3805 lb down and 757 lb up at 7-0-12, 1833 lb down and 221 lb up at 8-11-4, 1887 lb down and 227 lb up at 10-11-4, 1936 lb down and 231 lb up at 12-11-4, 1942 lb down and 227 lb up at 14-11-4, and 1972 lb down and 225 lb up at 16-11-4, and 1970 lb down and 216 lb up at 18-11-4 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)

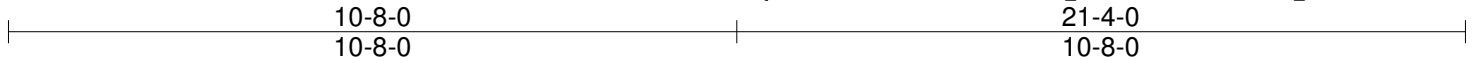
Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-1887(B) 10=-3805(B) 11=-1833(B) 12=-1936(B) 13=-1942(B) 14=-1972(B) 15=-1970(B)

Job J1120-5567	Truss D1	Truss Type Common Supported Gable	Qty 1	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:14 2021 Page 1
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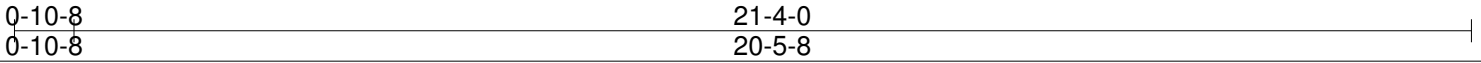
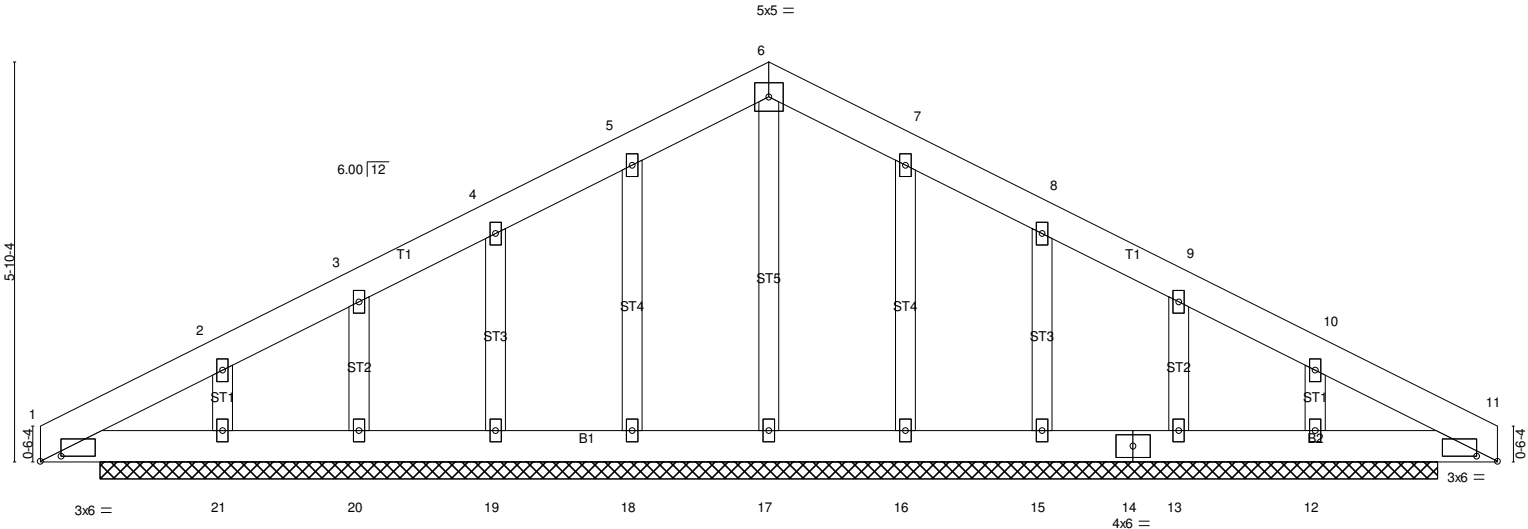


Plate Offsets (X,Y)-- [1:0-3-10,0-0-14], [11:0-3-10,0-0-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 143 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 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 19-7-0.
 (lb) - Max Horz 1=-70(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 20, 21, 16, 15, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 17, 18, 19, 20, 21, 16, 15, 13, 12

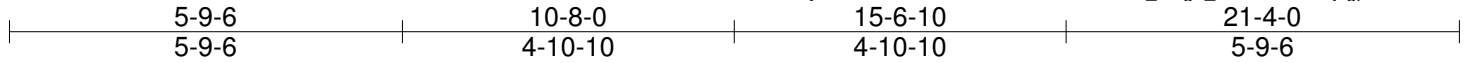
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-0 to 4-8-0, Exterior(2) 4-8-0 to 10-8-0, Corner(3) 10-8-0 to 15-0-13, Exterior(2) 15-0-13 to 21-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Solid blocking is required on both sides of the truss at joint(s), 1, 11.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 20, 21, 16, 15, 13, 12.
 - Non Standard bearing condition. Review required.
 - 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 J1120-5567	Truss D2	Truss Type Common	Qty 2	Ply 1	1610 NORTHGATE
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:15 2021 Page 1
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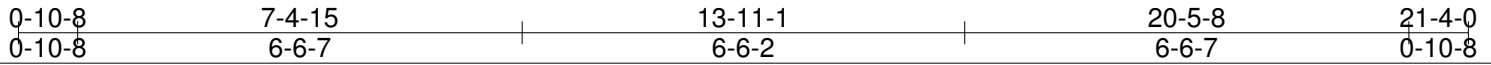
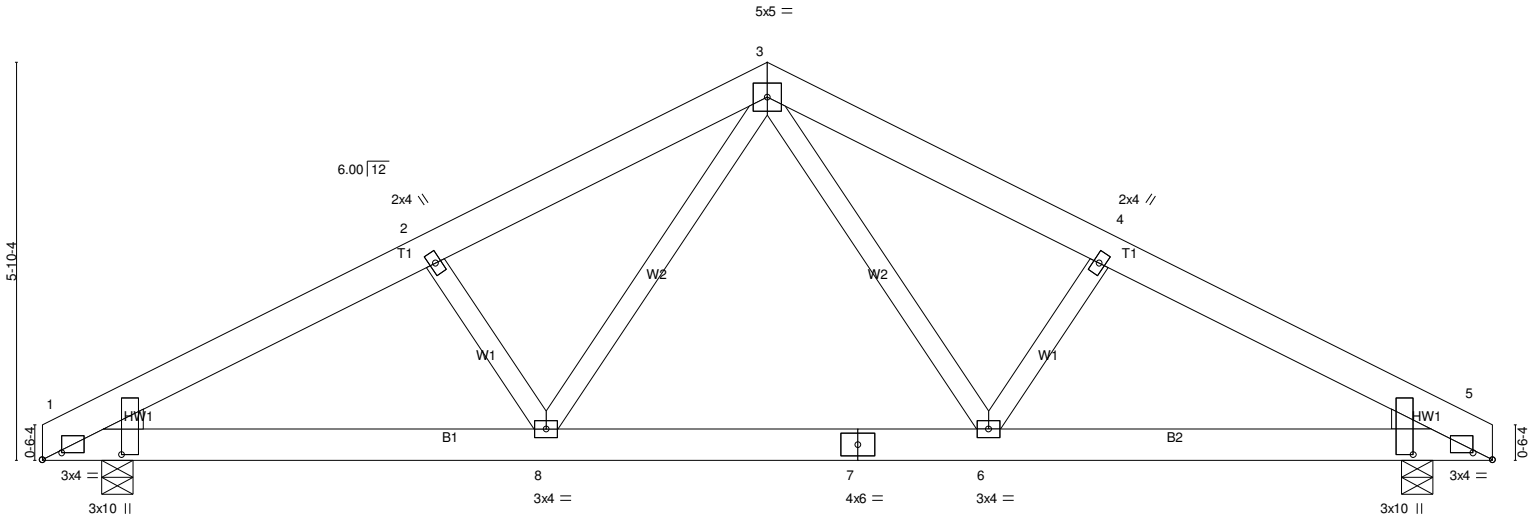


Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-0-14,1-1-15], [5:0-3-6,0-1-3], [5:0-0-14,1-1-15]

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 0.29	Vert(LL)	-0.03	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.06	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	6-8	>999		
								Weight: 135 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
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. (size) 1=0-5-8 (min. 0-1-8), 5=0-5-8 (min. 0-1-8)
Max Horz 1=70(LC 10)
Max Uplift 1=50(LC 12), 5=50(LC 13)
Max Grav 1=835(LC 1), 5=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1413/359, 2-9=-1291/376, 2-10=-1255/363, 3-10=-1181/388, 3-11=-1181/388,
4-11=-1255/363, 4-12=-1291/376, 5-12=-1413/359
BOT CHORD 1-8=-253/1205, 7-8=-89/819, 6-7=-89/819, 5-6=-254/1205
WEBS 3-6=-109/471, 4-6=-298/209, 3-8=-109/471, 2-8=-298/209

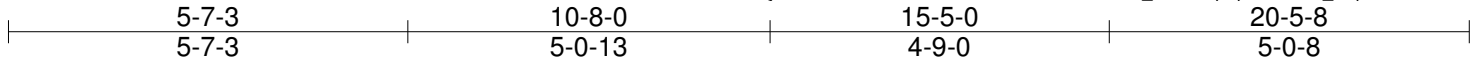
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 21-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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, 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.

LOAD CASE(S) Standard

Job J1120-5567	Truss D3	Truss Type Common Girder	Qty 1	Ply 2	1610 NORTHGATE
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Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue May 18 14:19:16 2021 Page 1
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Scale: 3/8"=1'

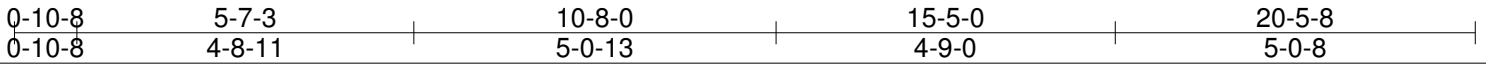
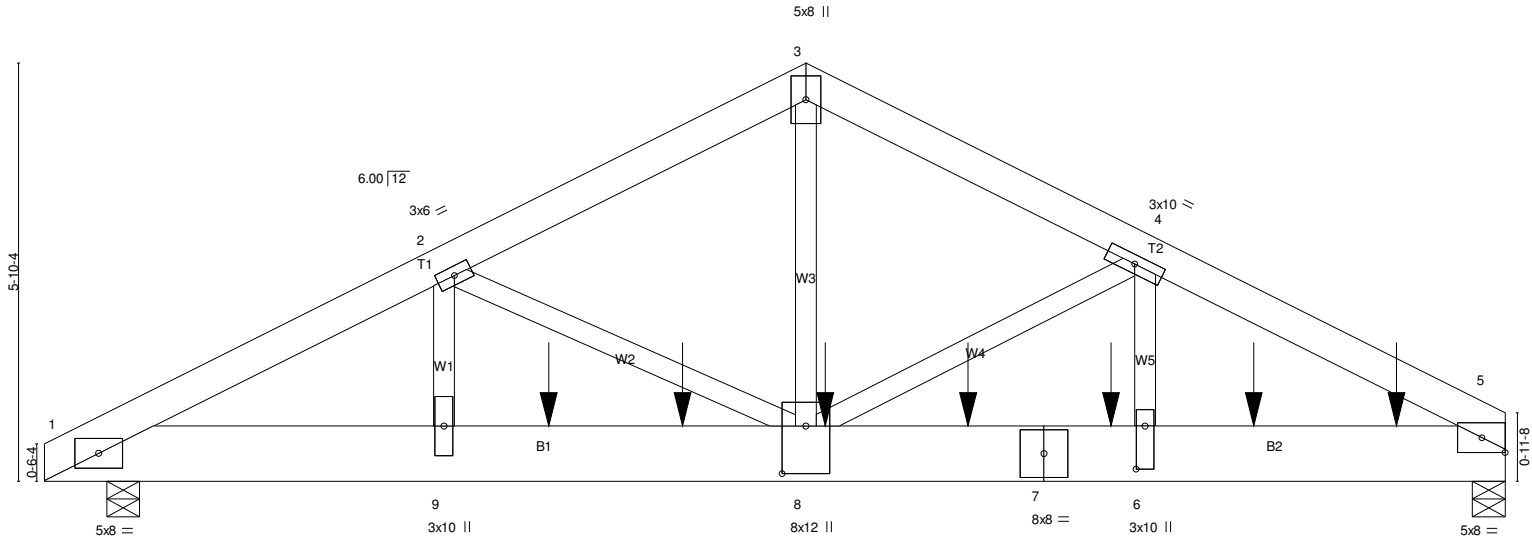


Plate Offsets (X,Y)-- [6:0-7-4,0-1-8], [8:0-8-0,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.10 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.19 8-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.04 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 8-9 >999 240	Weight: 327 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8 (min. 0-2-2), 5=0-5-8 (min. 0-2-15)
Max Horz 1=-68(LC 25)
Max Uplift 1=-663(LC 8), 5=-747(LC 9)
Max Grav 1=5077(LC 1), 5=7066(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-10723/1436, 2-3=-8324/1049, 3-4=-8321/1055, 4-5=-10701/1184
BOT CHORD 1-9=-1291/9512, 9-10=-1291/9512, 10-11=-1291/9512, 8-11=-1291/9512, 8-12=-964/9163,
7-12=-964/9163, 7-13=-964/9163, 6-13=-964/9163, 6-14=-964/9163, 14-15=-964/9163,
5-15=-964/9163
WEBS 2-9=-314/1964, 2-8=-2382/496, 3-8=-847/6994, 4-8=-2065/208, 4-6=-149/2543

- 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: 2x10 - 2 rows staggered at 0-4-0 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 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) except (jt=lb) 1=663, 5=747.
 - 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.