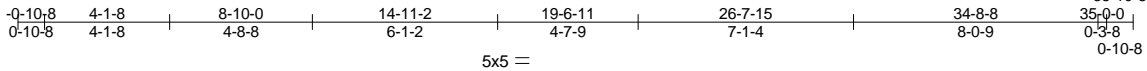


Job J1024-5732	Truss A1	Truss Type ROOF SPECIAL	Qty 4	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:29 2024 Page 1  
ID:rYd7CkiNsenaNmW2JmhjeeynETQ-otT7eNgPZ2a7RyF0nGxWi0NBy5f\_HP5rVZnvrFyQE0i

Job Reference (optional)



Scale = 1:75.9

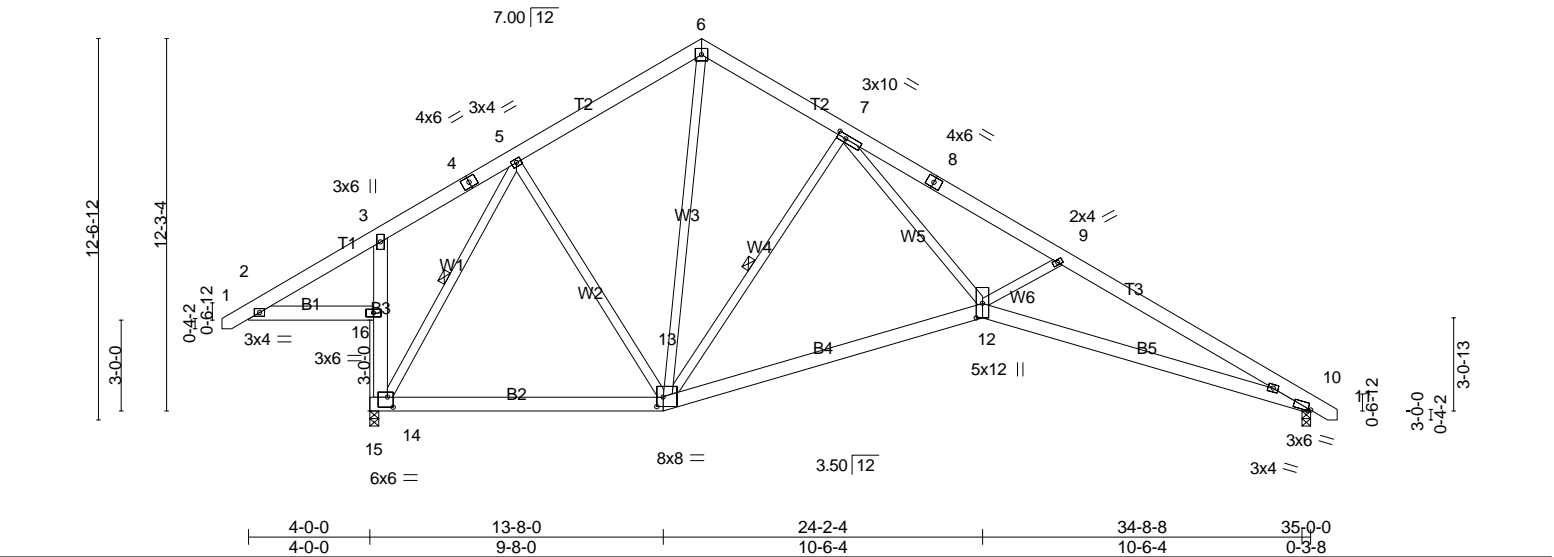


Plate Offsets (X,Y)-- [7:0-3-8,0-1-8], [10:0-1-2,0-0-9], [12:0-5-12,0-2-8], [13:0-2-8,0-3-12], [14:0-2-4,0-4-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.14	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.34	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.17	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09	12	>999		
								Weight: 271 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 3-10-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 2-16.  
6-0-0 oc bracing: 14-16  
WEBS 1 Row at midpt 7-13, 5-14

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

**REACTIONS.** (lb/size) 14=1649/0-3-8 (min. 0-1-15), 10=1241/0-3-8 (min. 0-1-8)  
Max Horz 14=-280(LC 8)  
Max Uplift 14=-77(LC 12), 10=-92(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-17=-271/366, 3-17=-247/386, 5-18=-959/271, 6-18=-928/298, 6-19=-895/308,  
7-19=-898/279, 7-8=-2815/422, 8-9=-2945/383, 9-20=-3272/513, 10-20=-3357/485  
BOT CHORD 2-16=-263/293, 14-16=-524/404, 3-16=-465/305, 14-21=-68/622, 21-22=-68/622,  
13-22=-68/622, 12-13=0/1296, 10-12=-330/2947  
WEBS 5-13=-17/459, 7-13=-1091/261, 7-12=-139/2028, 9-12=-510/297, 5-14=-1203/250,  
6-13=-144/616

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-9 to 3-8-4, Interior(1) 3-8-4 to 14-11-2, Exterior(2) 14-11-2 to 19-3-15, Interior(1) 19-3-15 to 35-8-9 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
  - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss A2	Truss Type ROOF SPECIAL	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:30 2024 Page 1  
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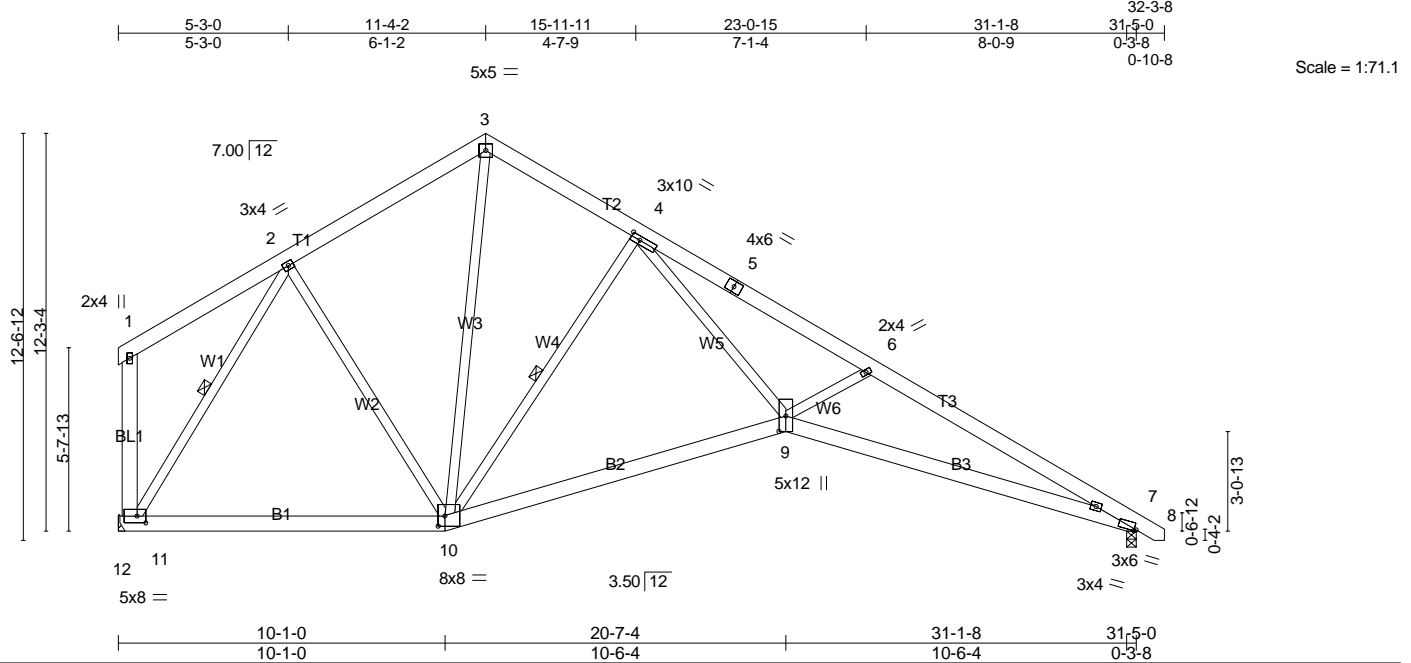


Plate Offsets (X,Y)-- [4:0-3-8,0-1-8], [7:0-0-14,0-0-9], [9:0-5-12,0-2-8], [10:0-2-8,0-3-12], [11:0-3-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	-0.16	10-11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT)	-0.35	7-9	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Horz(CT)	0.18	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.10	9	>999		
	Code IRC2015/TPI2014						Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-10, 2-11
OTHERS 2x6 SP No.1	

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

**REACTIONS.** (lb/size) 7=1289/0-3-8 (min. 0-1-8), 11=1243/Mechanical  
 Max Horz 11=-282(LC 8)  
 Max Uplift 7=-85(LC 13), 11=-56(LC 13)  
 Max Grav 7=1289(LC 1), 11=1316(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-1022/309, 3-14=-990/342, 3-15=-945/326, 4-15=-949/297, 4-5=-2992/467,  
 5-6=-3123/428, 6-16=-3447/553, 7-16=-3533/525  
 BOT CHORD 11-17=-36/756, 17-18=-36/756, 10-18=-36/756, 9-10=-31/1401, 7-9=-391/3103  
 WEBS 2-10=-23/345, 4-10=-1123/278, 4-9=-171/2116, 6-9=-506/296, 2-11=-1156/269,  
 3-10=-185/682

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 11-4-2, Exterior(2) 11-4-2 to 15-8-15, Interior(1) 15-8-15 to 32-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss A3	Truss Type HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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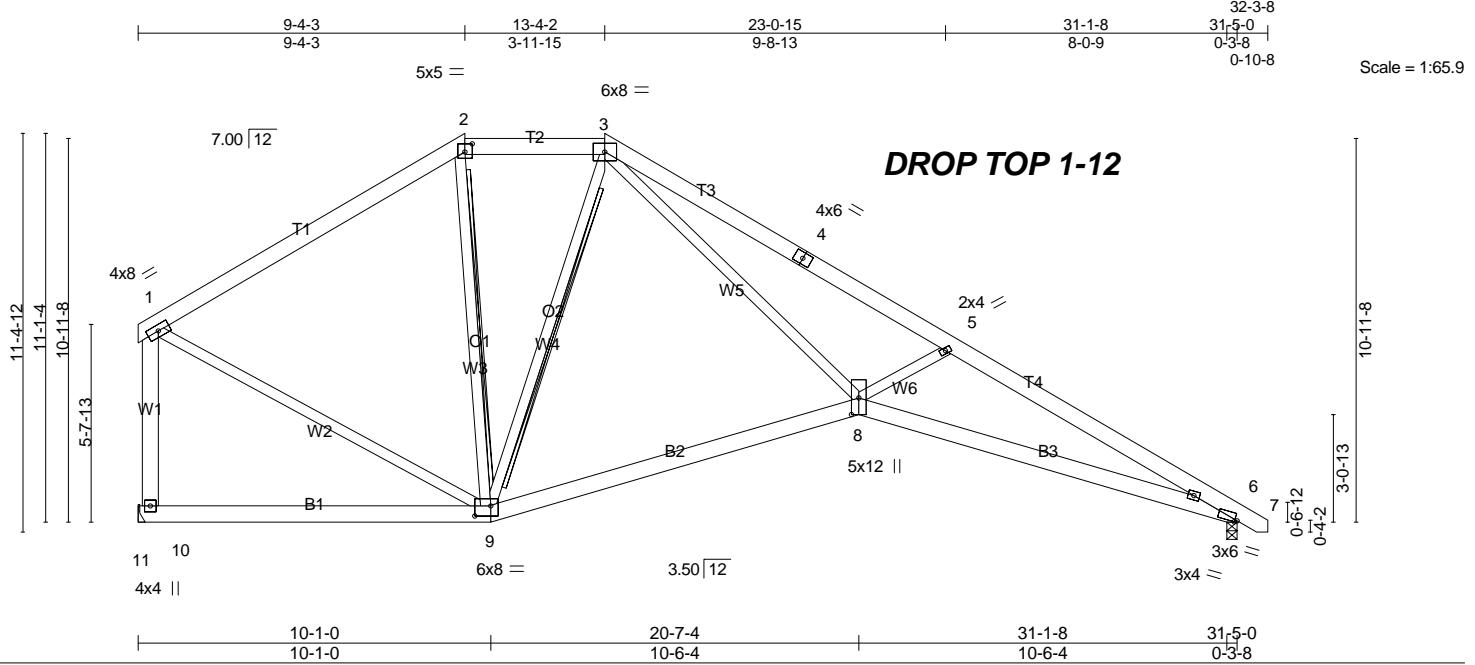


Plate Offsets (X,Y)-- [2:0-2-8,0-2-13], [6:0-0-14,0-0-9], [8:0-5-12,0-2-8], [9:0-5-8,0-3-8]

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL) -0.16	8	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT) -0.36	8-9	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Horz(CT) 0.19	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.11	8	>999	240		
	Code IRC2015/TPI2014						Weight: 240 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

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

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

**REACTIONS.** (lb/size) 10=1243/Mechanical, 6=1289/0-3-8 (min. 0-1-8)  
 Max Horz 10=-253(LC 8)  
 Max Uplift 10=-36(LC 13), 6=-81(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-12=-1058/285, 12-13=-926/294, 2-13=-924/322, 2-3=-885/353, 3-4=-2971/592,  
 4-14=-3007/558, 5-14=-3137/555, 5-15=-3505/702, 6-15=-3591/673, 1-10=-1138/353  
 BOT CHORD 10-16=-180/273, 9-16=-180/273, 8-9=0/1046, 6-8=-533/3164  
 WEBS 3-8=-293/2297, 5-8=-622/376, 1-9=-146/842, 3-9=-645/153

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 9-4-3, Exterior(2) 9-4-3 to 19-6-13, Interior(1) 19-6-13 to 32-1-9 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 BCCL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss A4	Truss Type HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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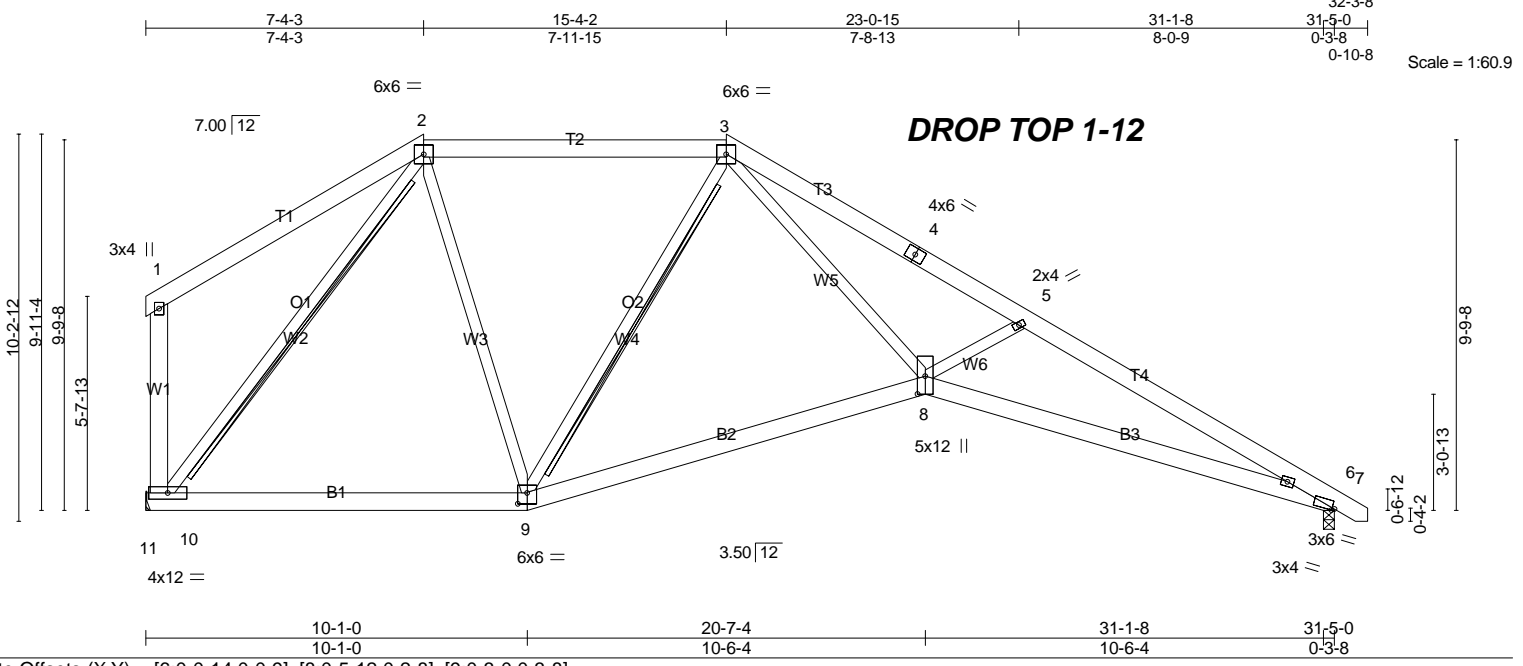


Plate Offsets (X,Y)-- [6:0-0-14,0-0-9], [8:0-5-12,0-2-8], [9:0-3-0,0-3-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL) -0.17	9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT) -0.35	6-8	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Horz(CT) 0.18	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.10	8	>999	240		
	Code IRC2015/TPI2014						Weight: 235 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 2-10, 3-9  
 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.** (lb/size) 6=1289/0-3-8 (min. 0-1-8), 10=1243/Mechanical  
 Max Horz 10=-232(LC 13)  
 Max Uplift 6=-75(LC 13), 10=-19(LC 13)  
 Max Grav 6=1289(LC 1), 10=1288(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-871/341, 14-15=-871/341, 3-15=-871/341, 3-4=-2995/615, 4-16=-3036/586,  
 5-16=-3126/573, 5-17=-3452/715, 6-17=-3538/688, 1-10=-274/154  
 BOT CHORD 10-18=-28/754, 18-19=-28/754, 9-19=-28/754, 8-9=-69/1296, 6-8=-539/3108  
 WEBS 3-8=-272/2159, 5-8=-535/326, 2-10=-1137/272, 3-9=-744/186, 2-9=-25/611

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-4-3, Exterior(2) 7-4-3 to 13-6-13, Interior(1) 13-6-13 to 15-4-2, Exterior(2) 15-4-2 to 21-6-13, Interior(1) 21-6-13 to 32-1-9 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 BCCL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 10.
  - 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job <b>J1024-5732</b>	Truss <b>A5</b>	Truss Type <b>HIP</b>	Qty <b>1</b>	Ply <b>1</b>	<b>S&amp;S / 8618 nc 27 Coats / Harnett Co.</b>
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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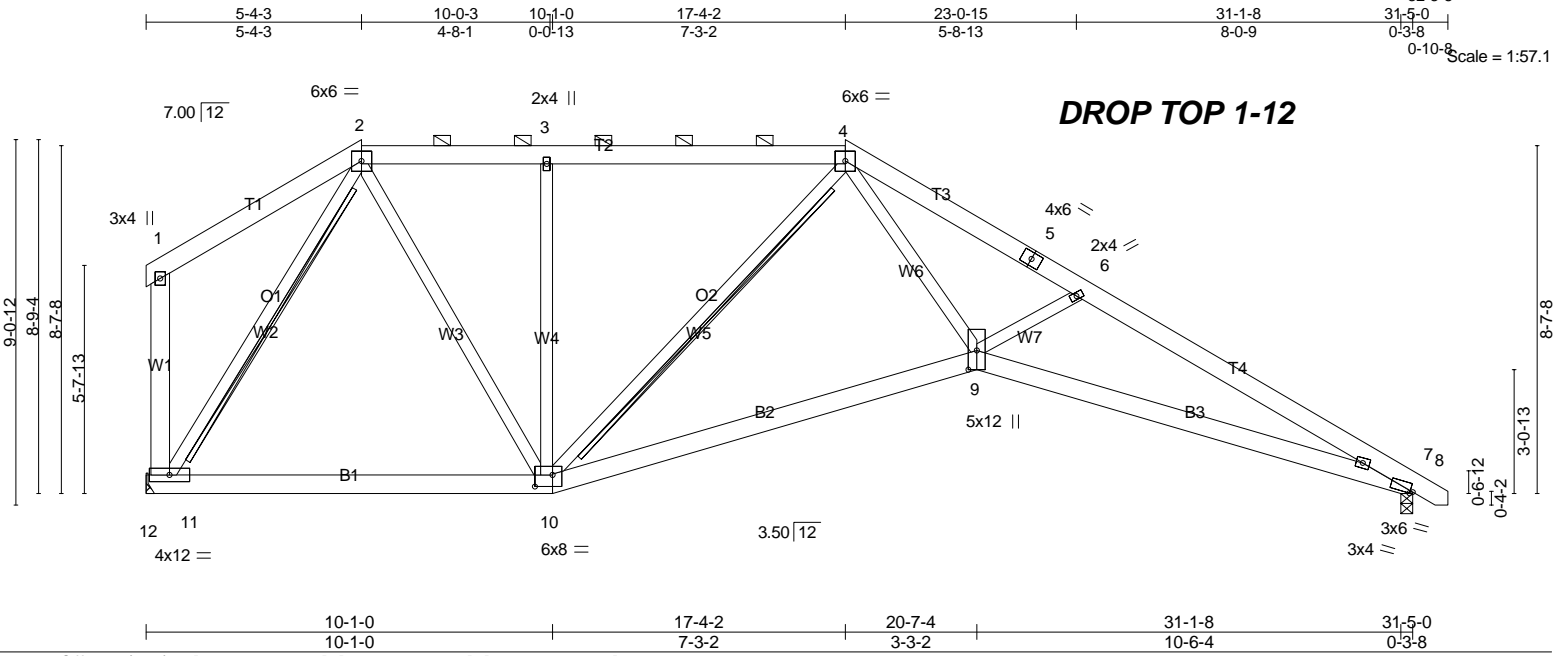


Plate Offsets (X,Y)-- [7:0-0-14,0-0-9], [9:0-5-12,0-2-8], [10:0-5-4,0-3-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.15 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Vert(CT) -0.35 9-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.17 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 9 >999 240		
				Weight: 238 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 2-11, 4-10  
 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.** (lb/size) 7=1289/0-3-8 (min. 0-1-8), 11=1243/Mechanical  
 Max Horz 11=-218(LC 13)  
 Max Uplift 7=-66(LC 13), 11=-3(LC 13)  
 Max Grav 7=1289(LC 1), 11=1267(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1047/373, 3-14=-1046/372, 14-15=-1046/372, 4-15=-1045/373, 4-5=-3033/614,  
 5-6=-3135/583, 6-16=-3426/711, 7-16=-3515/683  
 BOT CHORD 11-17=-52/645, 17-18=-52/645, 10-18=-52/645, 9-10=-138/1641, 7-9=-531/3085  
 WEBS 2-11=-1128/312, 2-10=-183/896, 4-10=-759/120, 4-9=-245/2027, 6-9=-463/290,  
 3-10=-449/228

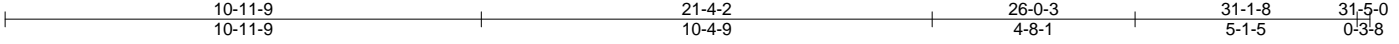
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 5-4-3, Exterior(2) 5-4-3 to 11-6-13, Interior(1) 11-6-13 to 17-4-2, Exterior(2) 17-4-2 to 23-3-12, Interior(1) 23-3-12 to 32-1-9 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.
  - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

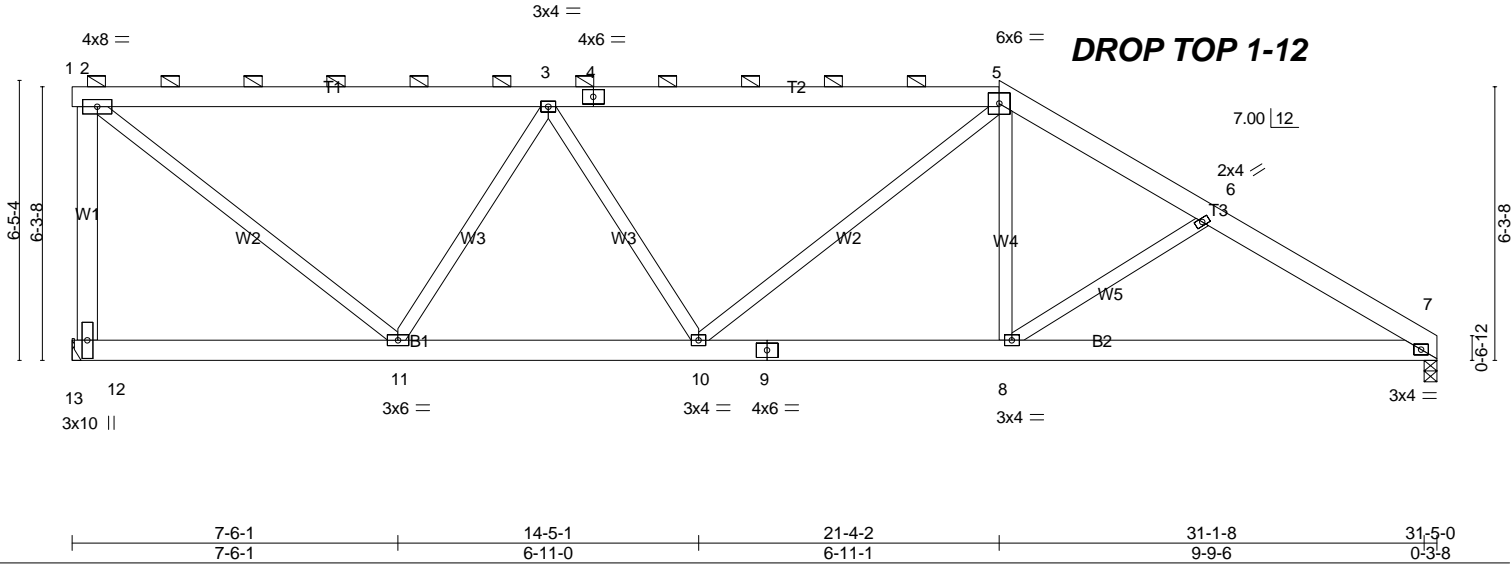


Job <b>J1024-5732</b>	Truss <b>A7</b>	Truss Type <b>HALF HIP</b>	Qty <b>1</b>	Ply <b>1</b>	<b>S&amp;S / 8618 nc 27 Coats / Harnett Co.</b>
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:32 2024 Page 1  
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Scale = 1:53.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.07	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.16	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	10	>999		
								Weight: 225 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-15 max.): 1-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 12=1265/Mechanical, 7=1237/0-3-8 (min. 0-1-8)  
 Max Horz 12=-191(LC 13)  
 Max Uplift 12=-138(LC 8), 7=-39(LC 8)  
 Max Grav 12=1309(LC 2), 7=1237(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-12=-1180/354, 2-14=-1151/260, 3-14=-1151/260, 3-4=-1601/397, 4-15=-1603/398,  
 5-15=-1601/398, 5-6=-1767/419, 6-16=-1881/468, 16-17=-1907/459, 7-17=-2008/451  
 BOT CHORD 11-19=-201/1583, 19-20=-201/1583, 10-20=-201/1583, 9-10=-170/1472, 9-21=-170/1472,  
 8-21=-170/1472, 7-8=-324/1667  
 WEBS 2-11=-308/1406, 3-11=-864/344, 5-10=-97/261, 5-8=0/430, 6-8=-318/202

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 21-4-2, Exterior(2) 21-4-2 to 27-6-13, Interior(1) 27-6-13 to 31-3-4 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, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 12=138.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss A8	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:53.7

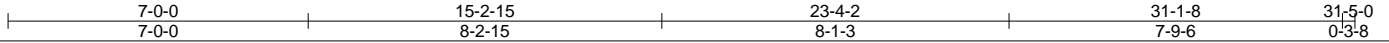
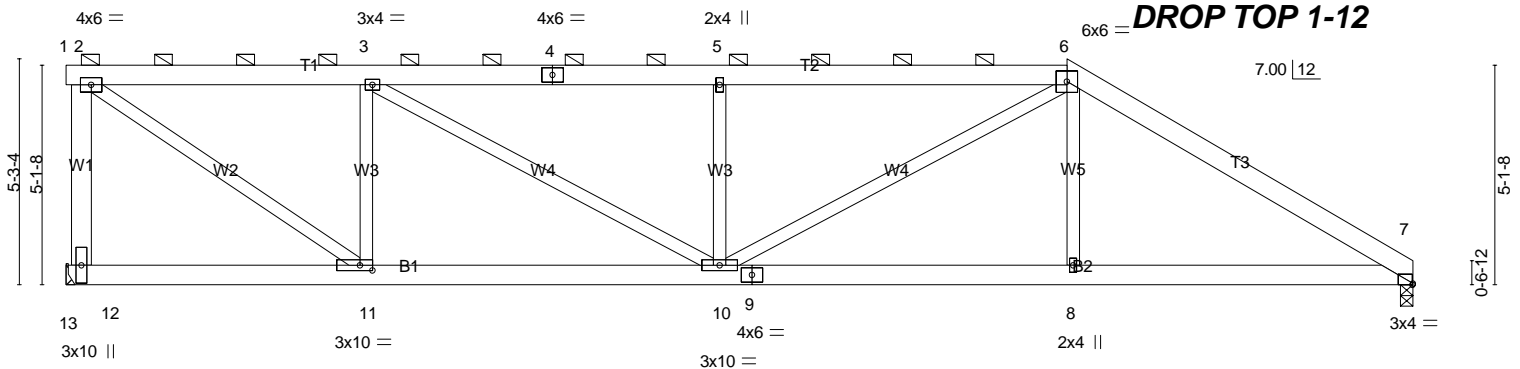


Plate Offsets (X,Y)-- [7:0-0-2,Edge], [11:0-3-8,0-1-8]

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 0.35	Vert(LL) -0.08	10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.31	Vert(CT) -0.16	10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.44	Horz(CT) 0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.06	10	>999	240		
								Weight: 217 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-9 max.): 1-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 12=1265/Mechanical, 7=1237/0-3-8 (min. 0-1-8)  
Max Horz 12=-153(LC 13)  
Max Uplift 12=-139(LC 8), 7=-57(LC 8)  
Max Grav 12=1265(LC 1), 7=1237(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-12=-1192/343, 2-14=-1458/340, 3-14=-1458/340, 3-4=-2131/534, 4-5=-2131/534,  
5-15=-2133/535, 6-15=-2131/535, 6-16=-1865/434, 16-17=-1886/409, 7-17=-2000/396  
BOT CHORD 10-11=-150/1458, 9-10=-256/1614, 8-9=-256/1614, 7-8=-253/1620  
WEBS 2-11=-404/1729, 3-11=-844/329, 3-10=-222/774, 5-10=-542/265, 6-10=-166/709, 6-8=0/357

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 23-4-2, Exterior(2) 23-4-2 to 29-6-13, Interior(1) 29-6-13 to 31-3-4 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) 7 except (jt=lb) 12=139.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

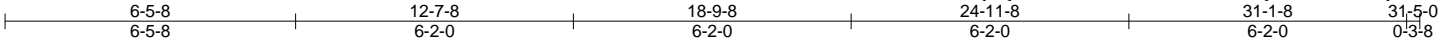
**LOAD CASE(S)** Standard



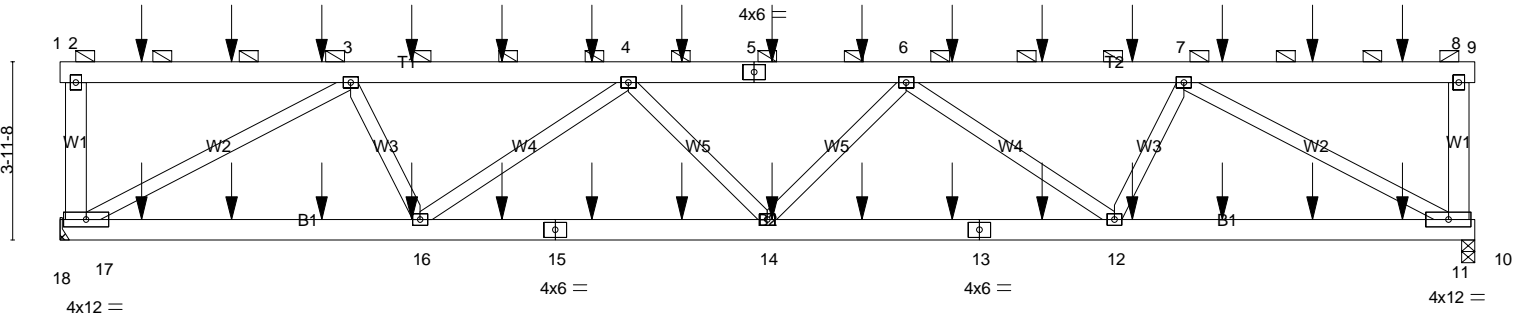
Job J1024-5732	Truss A9	Truss Type FLAT GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:51.2



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) -0.10 14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.20 14-16 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.06 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 14 >999 240	Weight: 440 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**BRACING-**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-9, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 17=2358/Mechanical, 11=2373/0-3-8 (min. 0-1-8)  
Max Uplift 17=-480(LC 4), 11=-484(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-17=-340/153, 3-22=-3880/737, 22-23=-3880/737, 23-24=-3880/737, 4-24=-3880/737,  
4-25=-5156/990, 5-25=-5156/990, 5-26=-5156/990, 26-27=-5156/990, 6-27=-5156/990,  
6-28=-3880/738, 28-29=-3880/738, 29-30=-3880/738, 7-30=-3880/738, 8-11=-351/160  
BOT CHORD 17-34=-719/3370, 34-35=-719/3370, 35-36=-719/3370, 16-36=-719/3370, 16-37=-1069/5014,  
15-37=-1069/5014, 15-38=-1069/5014, 38-39=-1069/5014, 14-39=-1069/5014,  
14-40=-1070/5014, 40-41=-1070/5014, 13-41=-1070/5014, 13-42=-1070/5014,  
12-42=-1070/5014, 12-43=-719/3370, 43-44=-719/3370, 44-45=-719/3370, 45-46=-719/3370,  
11-46=-719/3370  
WEBS 3-17=-3722/808, 3-16=-45/1308, 4-16=-1422/418, 4-14=0/417, 6-14=0/418, 6-12=-1422/417,  
7-12=-45/1306, 7-11=-3720/809

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=130mph 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 3x4 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) 17=480, 11=484.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job J1024-5732	Truss A9	Truss Type FLAT GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co. Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 92 lb up at 1-9-12, 134 lb down and 92 lb up at 3-9-12, 134 lb down and 92 lb up at 5-9-12, 134 lb down and 92 lb up at 7-9-12, 134 lb down and 92 lb up at 9-9-12, 134 lb down and 92 lb up at 11-9-12, 134 lb down and 92 lb up at 13-9-12, 134 lb down and 92 lb up at 15-9-12, 134 lb down and 92 lb up at 17-9-12, 134 lb down and 92 lb up at 19-9-12, 134 lb down and 92 lb up at 21-9-12, 134 lb down and 92 lb up at 23-9-12, 134 lb down and 92 lb up at 25-9-12, and 134 lb down and 92 lb up at 27-9-12, and 134 lb down and 92 lb up at 29-9-12 on top chord, and 84 lb down at 1-9-12, 84 lb down at 3-9-12, 84 lb down at 5-9-12, 84 lb down at 7-9-12, 84 lb down at 9-9-12, 84 lb down at 11-9-12, 84 lb down at 13-9-12, 84 lb down at 15-9-12, 84 lb down at 17-9-12, 84 lb down at 19-9-12, 84 lb down at 21-9-12, 84 lb down at 23-9-12, 84 lb down at 25-9-12, and 84 lb down at 27-9-12, and 84 lb down at 29-9-12 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=-60, 2-8=-60, 8-9=-60, 10-18=-20

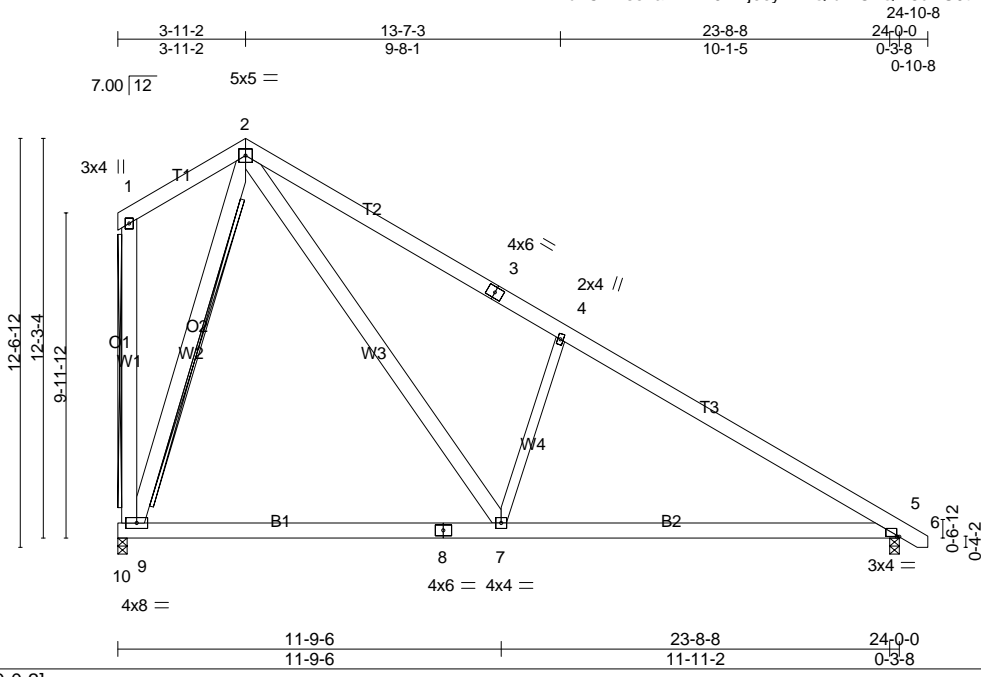
Concentrated Loads (lb)

Vert: 16=-42(F) 14=-42(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 23=-106(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-106(F) 34=-42(F) 35=-42(F) 36=-42(F) 37=-42(F) 38=-42(F) 39=-42(F) 40=-42(F) 41=-42(F) 42=-42(F) 43=-42(F) 44=-42(F) 45=-42(F) 46=-42(F)

Job J1024-5732	Truss B1	Truss Type FINK	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:35 2024 Page 1  
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Scale = 1:70.8

Plate Offsets (X,Y)-- [5:0-0-14,0-0-2]

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 0.47	Vert(LL)	-0.25	7-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.34	7-9	>841	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	5-7	>999	240		
									Weight: 215 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W4: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS T-Brace: 2x4 SPF No.2 - 1-9, 2-9  
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
 Brace must cover 90% of web length.

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

**REACTIONS.** (lb/size) 9=946/0-3-8 (min. 0-1-8), 5=993/0-3-8 (min. 0-1-8)  
 Max Horz 9=-350(LC 13)  
 Max Uplift 9=-133(LC 13), 5=-33(LC 13)  
 Max Grav 9=1261(LC 20), 5=1146(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-11=-1292/277, 3-11=-1301/250, 3-4=-1436/224, 4-12=-1439/130, 5-12=-1519/89  
 BOT CHORD 9-13=-113/387, 13-14=-113/387, 8-14=-113/387, 7-8=-113/387, 7-15=0/1205, 15-16=0/1205,  
 5-16=0/1205  
 WEBS 2-7=-259/1510, 4-7=-709/384, 2-9=-992/303

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-3-15, Interior(1) 8-3-15 to 24-8-9 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, with BC DL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 9=133.
  - 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.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss B2	Truss Type FINK	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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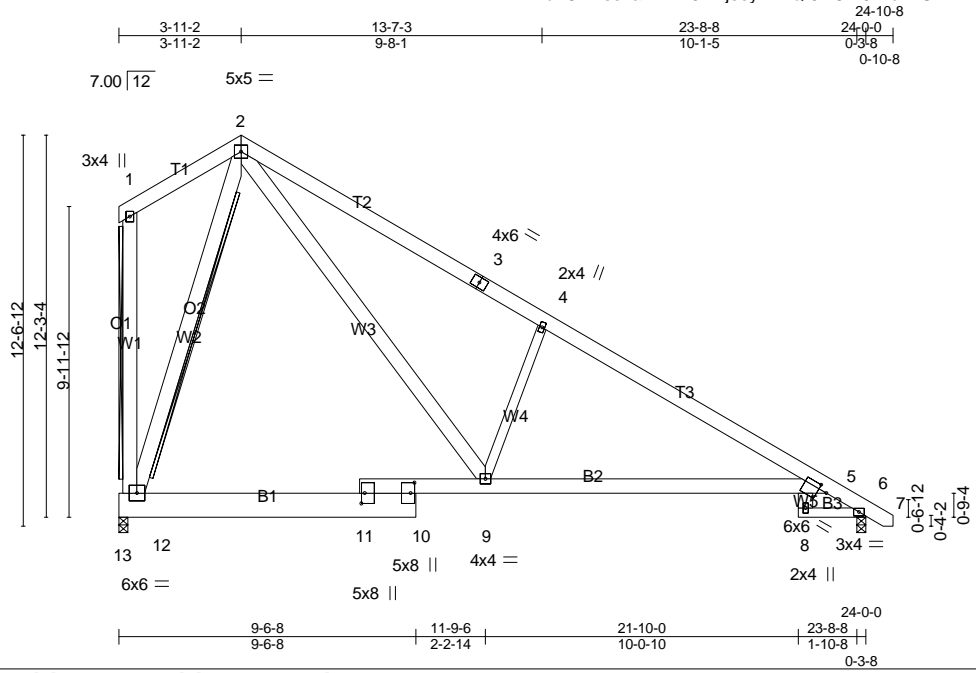


Plate Offsets (X,Y)-- [5:0-3-5,0-1-12], [10:0-4-0,0-1-8], [11:0-4-0,0-1-4]

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 0.69	Vert(LL)	-0.18	5-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.41	5-9	>682		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.16	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	5-9	>999		
								Weight: 231 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B1: 2x10 SP No.1, B3: 2x4 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
W4: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-8.  
WEBS T-Brace: 2x4 SPF No.2 - 1-12, 2-12  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
Brace must cover 90% of web length.

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

**REACTIONS.** (lb/size) 12=947/0-3-8 (min. 0-1-8), 6=1006/0-3-8 (min. 0-1-8)  
Max Horz 12=-350(LC 13)  
Max Uplift 12=-130(LC 13), 6=-27(LC 13)  
Max Grav 12=1232(LC 20), 6=1112(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-14=-1368/259, 3-14=-1381/233, 3-4=-1516/206, 4-15=-1548/133, 5-15=-1588/93, 5-6=-645/101  
BOT CHORD 12-16=-115/373, 11-16=-115/373, 11-17=-92/411, 10-17=-80/435, 9-10=-115/373, 9-18=0/1321, 18-19=0/1321, 5-19=0/1321  
WEBS 2-9=-229/1581, 4-9=-756/366, 2-12=-990/281

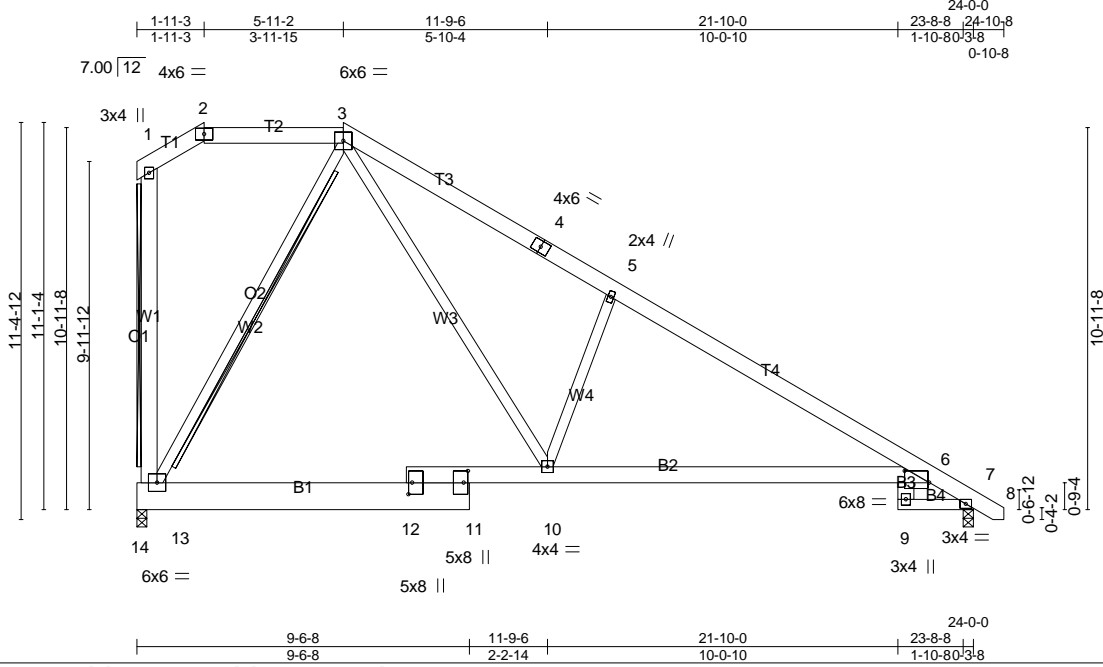
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-3-15, Interior(1) 8-3-15 to 24-8-9 zone; C-C for members and forces & 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 12=130.
  - 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.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss B3	Truss Type HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:36 2024 Page 1  
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Scale = 1:66.1

Plate Offsets (X,Y)-- [6:0-8-7,0-4-0], [11:0-4-0,0-1-8], [12:0-4-0,0-1-4]

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 0.70	Vert(LL)	-0.19	6-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.43	6-10	>658		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.17	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	6-10	>999		
								Weight: 205 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B1: 2x10 SP No.1, B4: 2x4 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-9.  
WEBS T-Brace: 2x4 SPF No.2 - 1-13, 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.** (lb/size) 7=1006/0-3-8 (min. 0-1-8), 13=947/0-3-8 (min. 0-1-8)  
Max Horz 13=-336(LC 13)  
Max Uplift 7=-30(LC 13), 13=-104(LC 13)  
Max Grav 7=1119(LC 20), 13=1155(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-1449/251, 4-15=-1464/214, 5-15=-1503/210, 5-16=-1547/142, 6-16=-1586/102, 6-7=-661/100  
BOT CHORD 13-17=0/501, 12-17=0/501, 11-12=0/531, 10-11=0/501, 10-18=0/1314, 18-19=0/1314, 6-19=0/1314  
WEBS 5-10=-686/341, 3-10=-194/1463, 3-13=-945/300

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 12-1-13, Interior(1) 12-1-13 to 24-8-9 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 13=104.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss B4	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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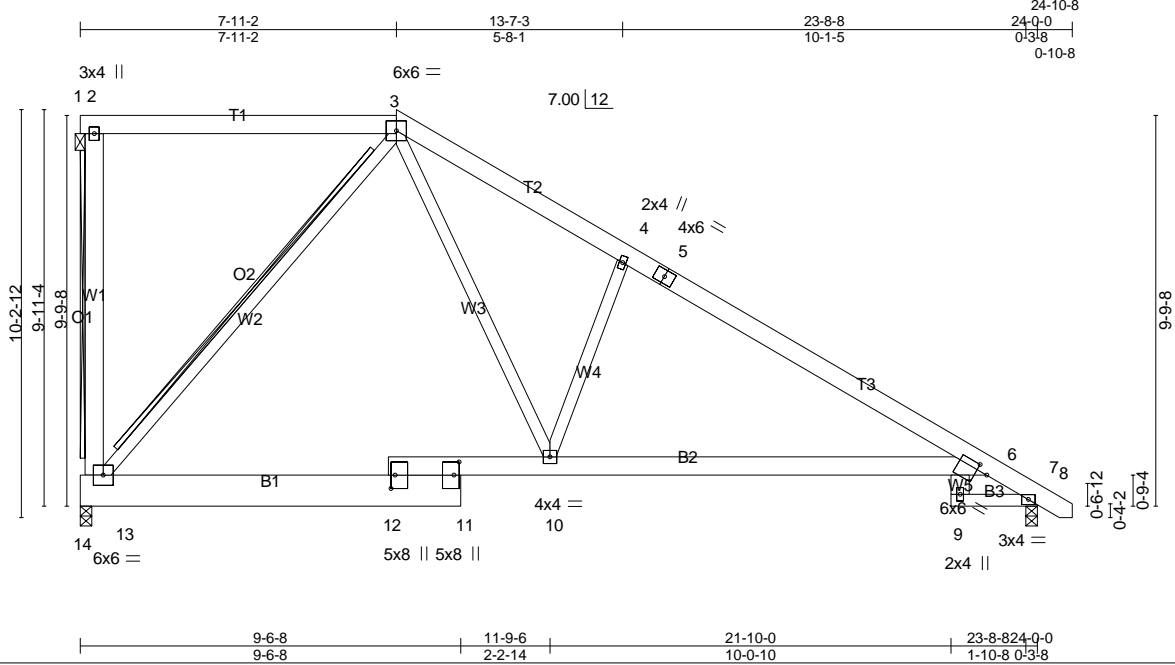


Plate Offsets (X,Y)-- [6:0-3-5,0-1-12], [11:0-4-0,0-1-8], [12:0-4-0,0-1-4]

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 0.70	Vert(LL)	-0.19	6-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.43	6-10	>659		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.18	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	6-10	>999		
								Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD 2x6 SP No.1 *Except* B1: 2x10 SP No.1, B3: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-9.
WEBS 2x4 SP No.2 *Except* W1,W5: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 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.** (lb/size) 13=968/0-3-8 (min. 0-1-8), 7=1006/0-3-8 (min. 0-1-8)  
 Max Horz 13=-314(LC 13)  
 Max Uplift 13=-97(LC 8), 7=-32(LC 13)  
 Max Grav 13=1097(LC 2), 7=1114(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-13=-254/143, 3-4=-1477/243, 4-17=-1363/152, 5-17=-1386/149, 5-18=-1530/121,  
 6-18=-1570/112, 6-7=-646/107  
 BOT CHORD 13-19=0/656, 12-19=0/656, 11-12=0/692, 11-20=0/656, 10-20=0/656, 10-21=0/1297,  
 21-22=0/1297, 6-22=0/1297  
 WEBS 3-13=-980/283, 3-10=-160/1350, 4-10=-639/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 7-11-2, Exterior(2) 7-11-2 to 14-1-13, Interior(1) 14-1-13 to 24-8-9 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss B5	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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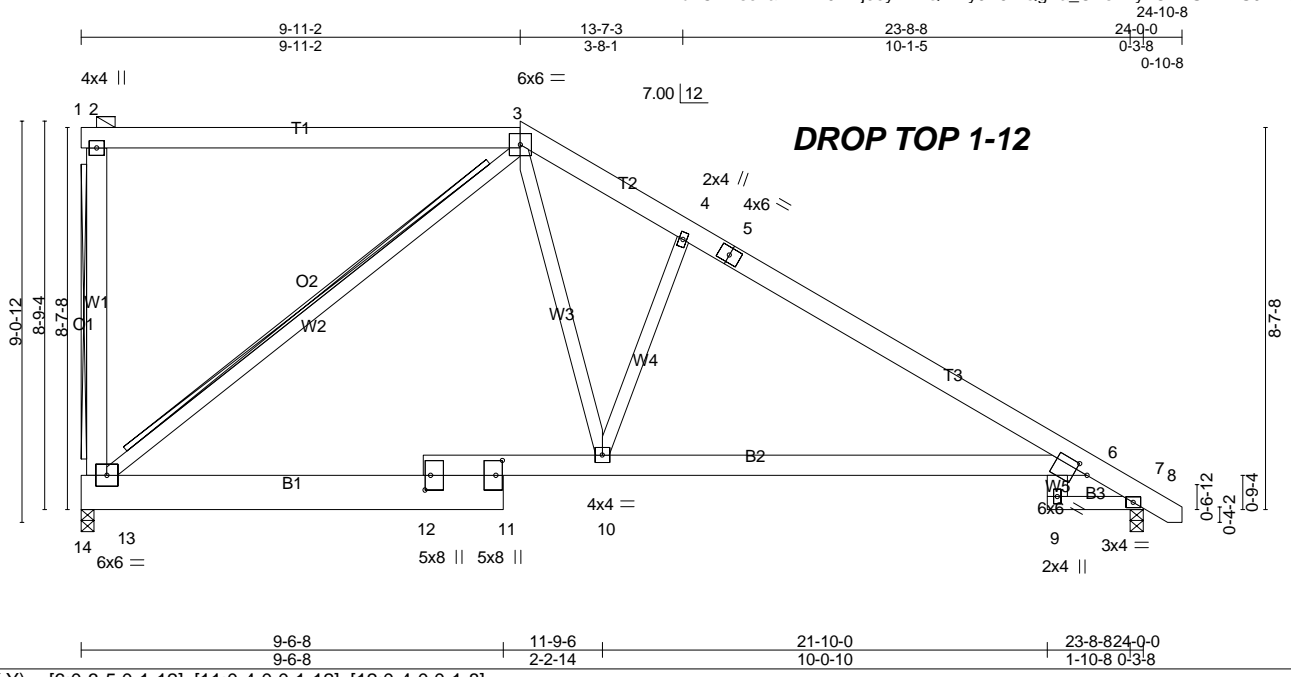


Plate Offsets (X,Y)-- [6:0-3-5,0-1-12], [11:0-4-0,0-1-12], [12:0-4-0,0-1-8]

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 0.70	Vert(LL)	-0.20	6-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.43	6-10	>655		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.18	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	6-10	>999		
								Weight: 194 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B1: 2x10 SP No.1, B3: 2x4 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1,W5: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-9.  
WEBS T-Brace: 2x4 SPF No.2 - 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.** (lb/size) 13=968/0-3-8 (min. 0-1-8), 7=1006/0-3-8 (min. 0-1-8)  
Max Horz 13=-276(LC 13)  
Max Uplift 13=-100(LC 8), 7=-37(LC 13)  
Max Grav 13=1062(LC 2), 7=1103(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-13=-317/177, 3-4=-1448/274, 4-5=-1361/198, 5-17=-1363/183, 17-18=-1506/168,  
6-18=-1545/158, 6-7=-639/121  
BOT CHORD 13-19=0/855, 12-19=0/855, 11-12=0/896, 11-20=0/855, 10-20=0/855, 10-21=-17/1279,  
21-22=-17/1279, 6-22=-17/1279  
WEBS 3-13=-1081/266, 3-10=-137/1267, 4-10=-617/296

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 9-11-2, Exterior(2) 9-11-2 to 16-1-13, Interior(1) 16-1-13 to 24-8-9 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 BC DL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss B6	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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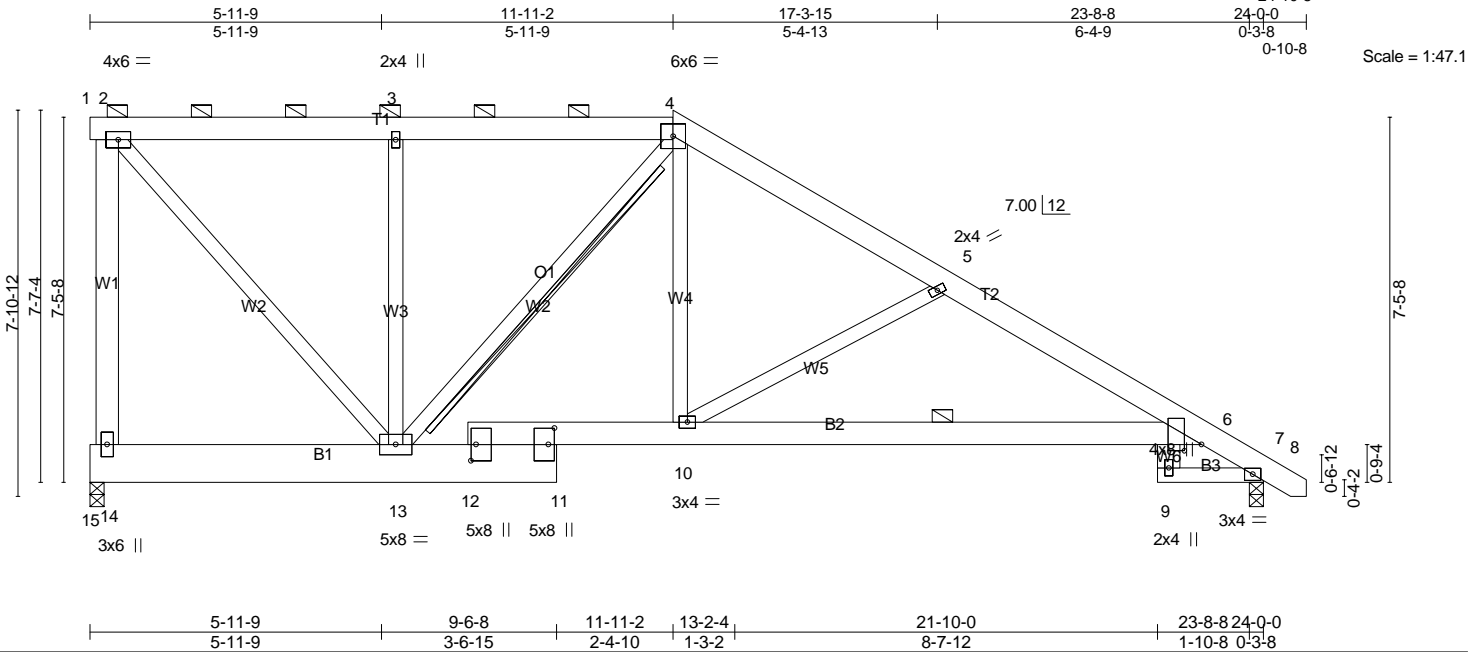


Plate Offsets (X,Y)-- [6:0-1-9,0-4-3], [11:0-4-0,0-1-8], [12:0-4-0,0-1-4]

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 0.65	Vert(LL)	-0.13	6-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.30	6-10	>942		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.12	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	6-10	>999		
								Weight: 206 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B1: 2x10 SP No.1, B3: 2x4 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W6: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-9.  
 10-0-0 oc bracing: 6-10  
 WEBS T-Brace: 2x4 SPF No.2 - 4-13  
 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.** (lb/size) 14=968/0-3-8 (min. 0-1-8), 7=1006/0-3-8 (min. 0-1-8)  
 Max Horz 14=-238(LC 13)  
 Max Uplift 14=-102(LC 8), 7=-38(LC 13)  
 Max Grav 14=968(LC 1), 7=1006(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-889/309, 2-16=-631/181, 16-17=-631/181, 3-17=-631/181, 3-4=-633/183,  
 4-5=-1198/219, 5-18=-1511/329, 18-19=-1579/312, 6-19=-1654/308, 6-7=-575/134  
 BOT CHORD 14-20=-257/289, 13-20=-257/289, 12-13=0/929, 11-12=0/932, 10-11=0/929, 6-10=-188/1452  
 WEBS 3-13=-404/213, 2-13=-269/940, 4-13=-472/90, 5-10=-622/279, 4-10=-20/684

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-11-2, Exterior(2) 11-11-2 to 18-1-13, Interior(1) 18-1-13 to 24-8-9 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 BCCL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 14=102.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard



Job <b>J1024-5732</b>	Truss <b>B7</b>	Truss Type <b>HALF HIP</b>	Qty <b>1</b>	Ply <b>1</b>	<b>S&amp;S / 8618 nc 27 Coats / Harnett Co.</b>
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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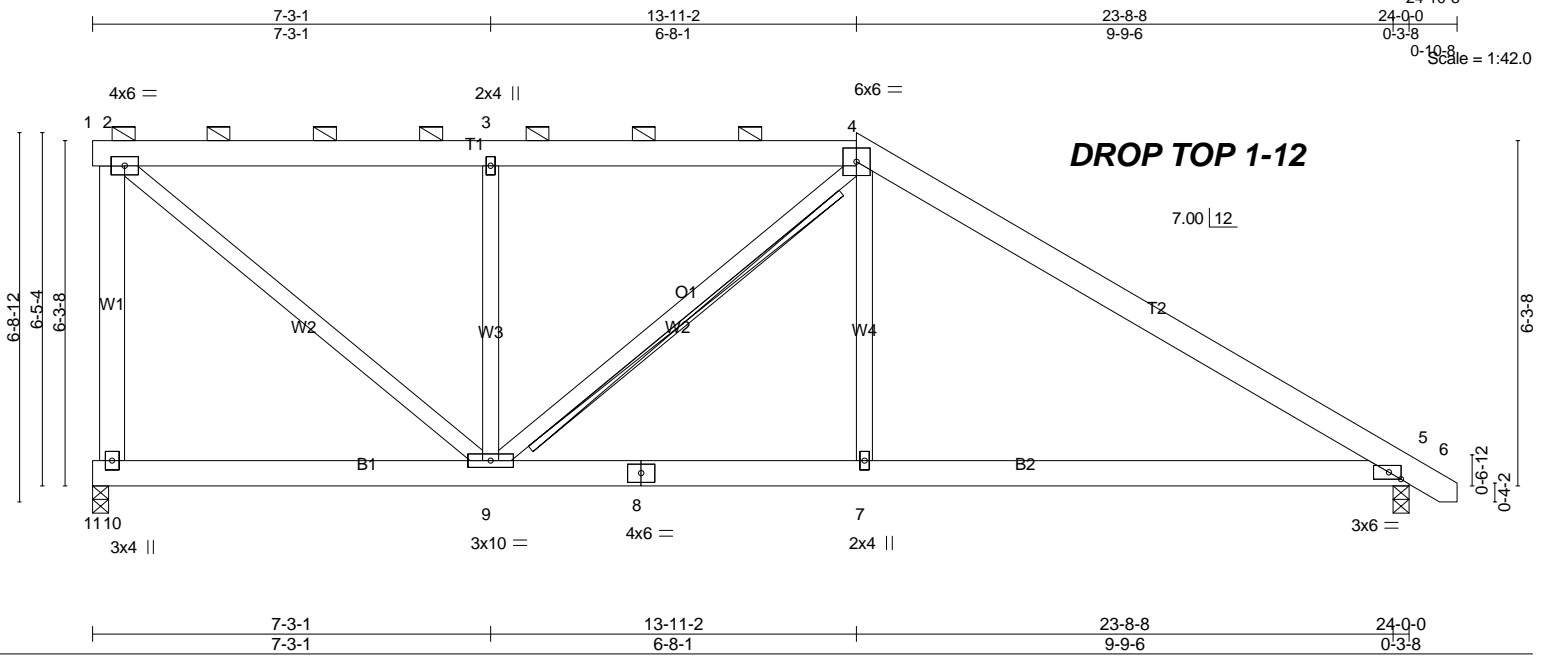


Plate Offsets (X,Y)-- [5:0-2:10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	Vert(LL) -0.07	5-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT) -0.16	5-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.39	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.05	5-7	>999	240		
	Code IRC2015/TPI2014						Weight: 172 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 4-9  
 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.** (lb/size) 10=968/0-3-8 (min. 0-1-8), 5=992/0-3-8 (min. 0-1-8)  
 Max Horz 10=-200(LC 13)  
 Max Uplift 10=-105(LC 8), 5=-42(LC 13)  
 Max Grav 10=1040(LC 2), 5=1044(LC 20)

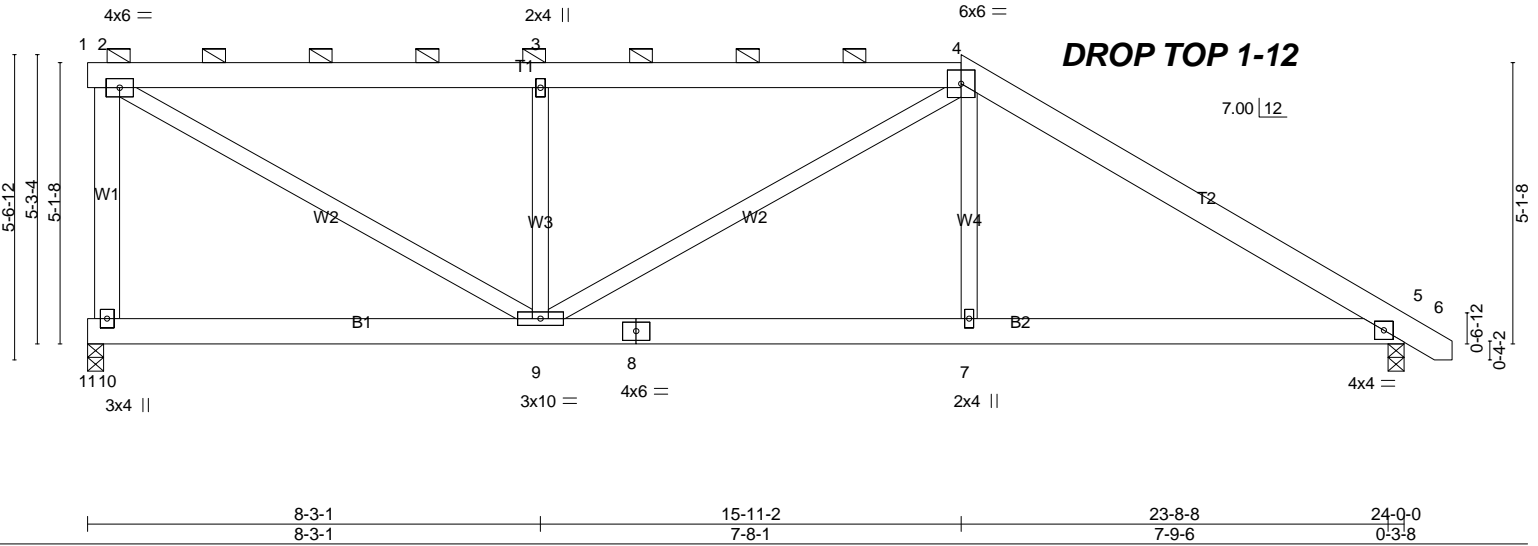
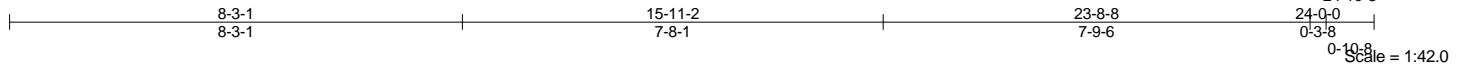
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-10=-883/304, 2-12=-852/226, 3-12=-852/226, 3-13=-854/227, 4-13=-854/228,  
 4-14=-1291/245, 5-14=-1414/207  
 BOT CHORD 8-9=-50/1099, 8-16=-50/1099, 7-16=-50/1099, 7-17=-48/1111, 5-17=-48/1111  
 WEBS 2-9=-286/1067, 3-9=-455/221, 4-9=-424/111, 4-7=0/505

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-11-2, Exterior(2) 13-11-2 to 20-1-13, Interior(1) 20-1-13 to 24-8-9 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 BC DL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 10=105.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

Job <b>J1024-5732</b>	Truss <b>B8</b>	Truss Type <b>HALF HIP</b>	Qty <b>1</b>	Ply <b>1</b>	<b>S&amp;S / 8618 nc 27 Coats / Harnett Co.</b>
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)      l/defl      L/d	<b>PLATES</b> <b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.03      7-9      >999      360	MT20      244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.07      5-7      >999      240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.02      5      n/a      n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03      5-7      >999      240	Weight: 166 lb      FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 10=968/0-3-8 (min. 0-1-8), 5=992/0-3-8 (min. 0-1-8)  
Max Horz 10=-162(LC 13)  
Max Uplift 10=-107(LC 8), 5=-36(LC 13)  
Max Grav 10=968(LC 1), 5=992(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-876/297, 2-12=-1137/297, 3-12=-1137/297, 3-13=-1139/298, 4-13=-1137/299,  
4-14=-1299/293, 14-15=-1308/266, 5-15=-1417/255  
BOT CHORD 8-9=-110/1110, 7-8=-110/1110, 5-7=-108/1116  
WEBS 2-9=-330/1249, 3-9=-527/265, 4-7=0/344

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 15-11-2, Exterior(2) 15-11-2 to 22-1-13, Interior(1) 22-1-13 to 24-8-9 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 10=107.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

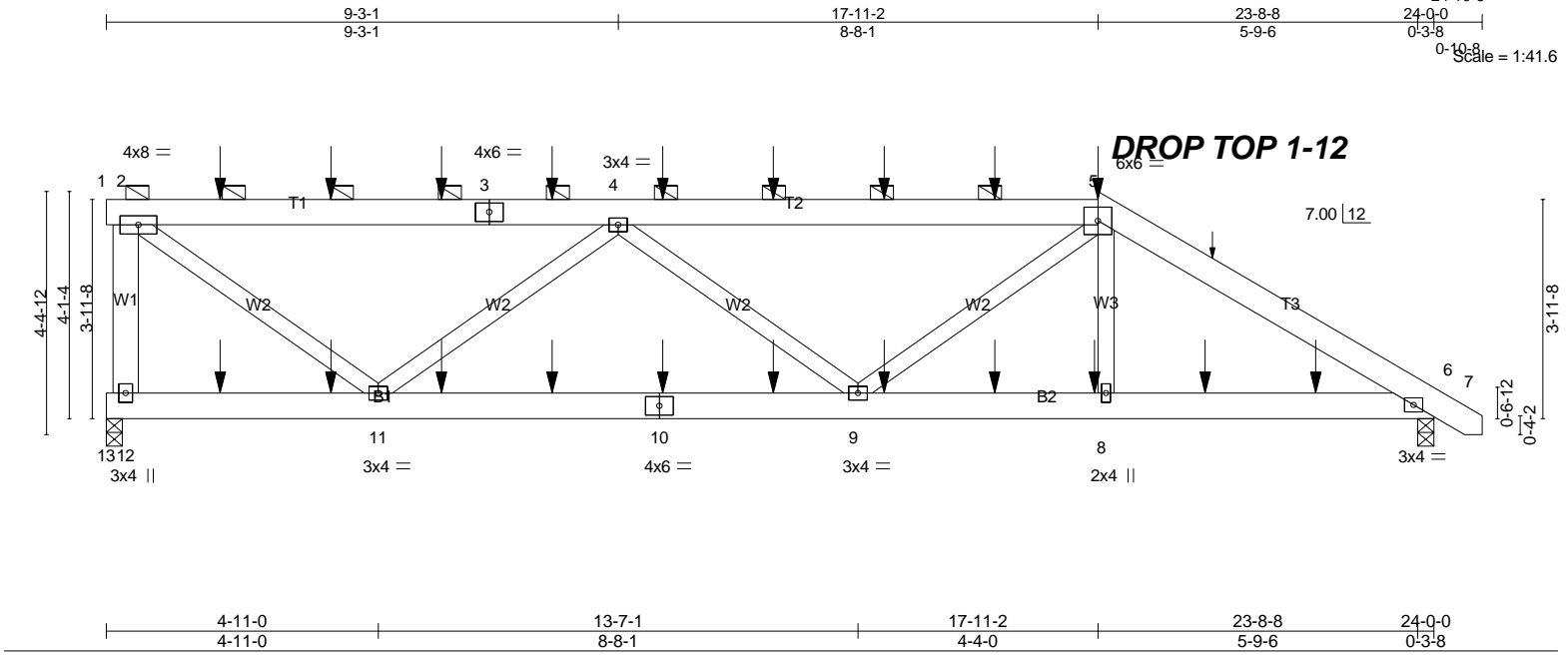
**LOAD CASE(S)** Standard

Job J1024-5732	Truss B9	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:41.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.05	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.11	9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	9-11	>999	240		
									Weight: 321 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	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.): 1-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W1: 2x6 SP No.1	

**REACTIONS.** (lb/size) 12=1794/0-3-8 (min. 0-1-8), 6=1866/0-3-8 (min. 0-1-8)  
Max Horz 12=-124(LC 28)  
Max Uplift 12=-359(LC 4), 6=-294(LC 9)  
Max Grav 12=1794(LC 1), 6=1866(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-12=-1715/369, 2-14=-1822/277, 14-15=-1822/277, 15-16=-1822/277, 3-16=-1822/277, 3-17=-1822/277, 4-17=-1822/277, 4-18=-2895/489, 18-19=-2894/489, 19-20=-2892/488, 20-21=-2891/488, 5-21=-2890/488, 5-22=-2734/522, 6-22=-2880/502  
BOT CHORD 11-25=-687/3053, 25-26=-687/3053, 10-26=-687/3053, 10-27=-687/3053, 9-27=-687/3053, 9-28=-397/2414, 28-29=-397/2414, 8-29=-397/2414, 8-30=-395/2430, 30-31=-395/2430, 6-31=-395/2430  
WEBS 2-11=-261/2094, 4-11=-1582/580, 4-9=-242/342, 5-9=-45/683, 5-8=0/444

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=359, 6=294.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job J1024-5732	Truss B9	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co. Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 104 lb up at 2-0-12, 134 lb down and 104 lb up at 4-0-12, 134 lb down and 104 lb up at 6-0-12, 134 lb down and 104 lb up at 8-0-12, 134 lb down and 104 lb up at 10-0-12, 134 lb down and 104 lb up at 12-0-12, 134 lb down and 104 lb up at 14-0-12, 134 lb down and 104 lb up at 16-0-12, and 129 lb down and 108 lb up at 17-11-2, and 35 lb down and 43 lb up at 19-10-6 on top chord, and 84 lb down at 2-0-12, 84 lb down at 4-0-12, 84 lb down at 6-0-12, 84 lb down at 8-0-12, 84 lb down at 10-0-12, 84 lb down at 12-0-12, 84 lb down at 14-0-12, 84 lb down at 16-0-12, 84 lb down at 17-10-6, and 156 lb down and 31 lb up at 19-10-6, and 213 lb down and 52 lb up at 21-10-6 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=-60, 2-5=-60, 5-7=-60, 6-13=-20

Concentrated Loads (lb)

Vert: 10=-42(B) 5=-106(B) 8=-42(B) 14=-106(B) 15=-106(B) 16=-106(B) 17=-106(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 23=-42(B) 24=-42(B) 25=-42(B) 26=-42(B) 27=-42(B) 28=-42(B) 29=-42(B) 30=-156(B) 31=-213(B)

Job J1024-5732	Truss C1	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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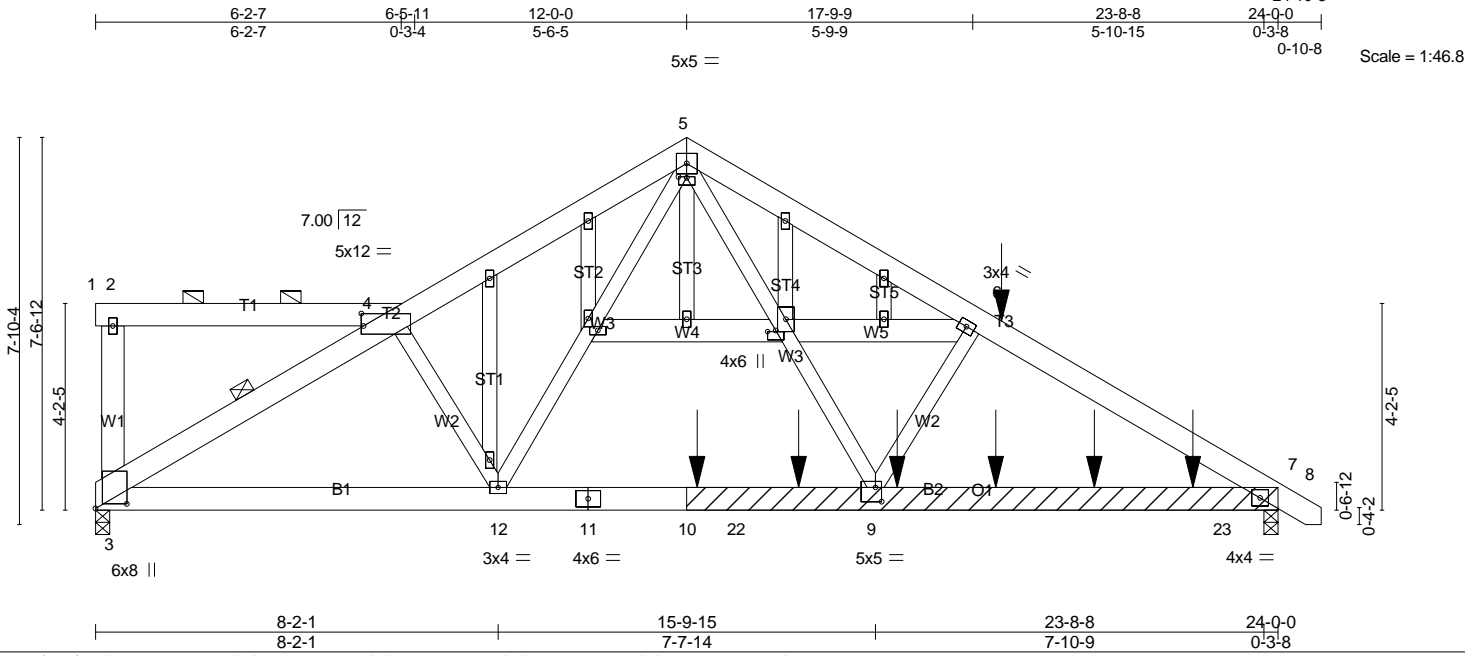


Plate Offsets (X,Y)-- [3:0-1-2,0-7-10], [4:0-0-9,0-3-0], [5:0-2-0,0-0-4], [9:0-1-8,0-3-8], [13:0-2-0,0-0-4]

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 0.22	Vert(LL)	-0.12	9-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.23	9-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.33	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	9-12	>999	240		
								Weight: 244 lb	FT = 20%	

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B2: 2x6 SP 2400F 2.0E  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W4,W5: 2x6 SP No.1  
 OTHERS 2x4 SP No.2  
 LBR SCAB 7-10 2x6 SP No.1 one side

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-4. Except: 1 Row at midpt 3-4  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=1401/0-3-8 (min. 0-1-10), 7=1781/0-3-8 (min. 0-1-8)  
 Max Horz 3=-256(LC 9)  
 Max Uplift 3=-268(LC 8), 7=-314(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-2248/426, 4-5=-2143/389, 5-6=-2435/455, 6-24=-2429/415, 7-24=-2648/440  
 BOT CHORD 3-12=-332/1941, 11-12=-126/1394, 10-11=-126/1394, 10-22=-126/1394, 22-25=-126/1394,  
 9-25=-126/1394, 9-26=-269/2205, 26-27=-269/2205, 27-28=-269/2205, 28-29=-269/2205,  
 23-29=-269/2205, 7-23=-269/2205  
 WEBS 4-12=-323/257, 5-12=-162/811, 5-9=-257/1331, 6-9=-413/329

- NOTES-**
- Attached 12-0-0 scab 7 to 10, back face(s) 2x6 SP No.1 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-0 from end at joint 10, nail 2 row(s) at 7" o.c. for 11-10-4.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=268, 7=314.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 125 lb up at 18-3-4 on top chord, and 692 lb down and 119 lb up at 12-2-8, 69 lb down at 14-3-4, 69 lb down at 16-3-4, 69 lb down at 18-3-4, and 136 lb down and 30 lb up at 20-3-4, and 197 lb down and 45 lb up at 22-3-4 on bottom chord. The design/selection of such connections and device(s) is the responsibility of others.

Job J1024-5732	Truss C1	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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**NOTES-**

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 4-5=-60, 5-8=-60, 3-7=-20, 1-4=-60

Concentrated Loads (lb)

Vert: 10=-692(F) 24=-100(F) 25=-35(F) 26=-35(F) 27=-35(F) 28=-136(F) 29=-197(F)

Job J1024-5732	Truss C2	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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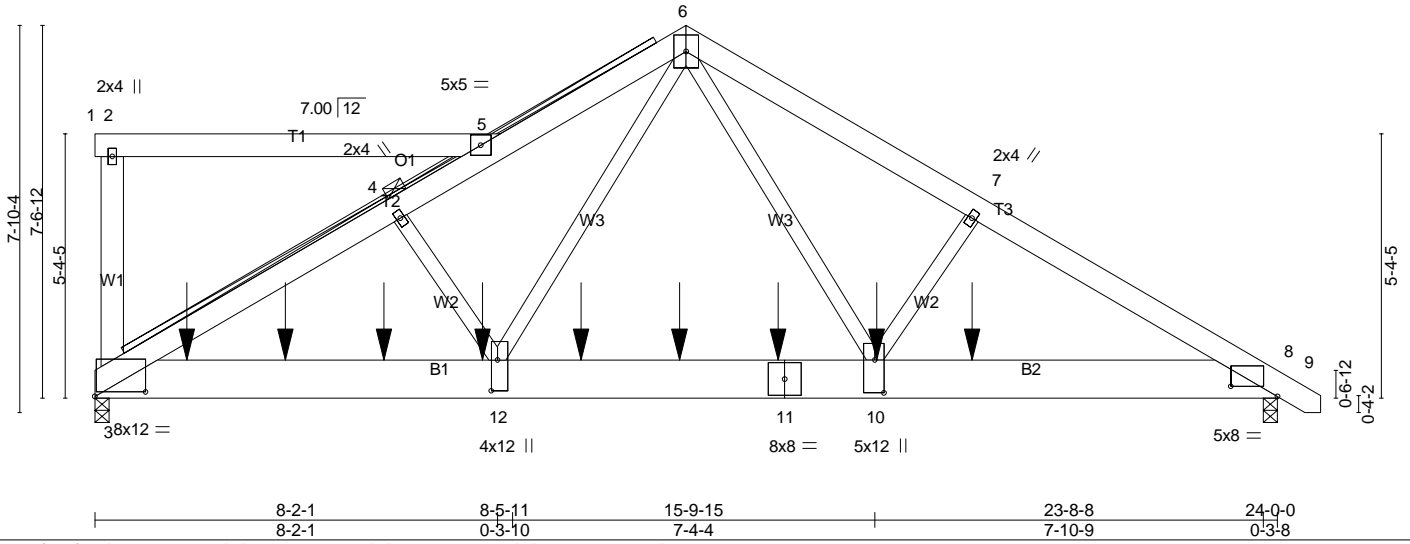
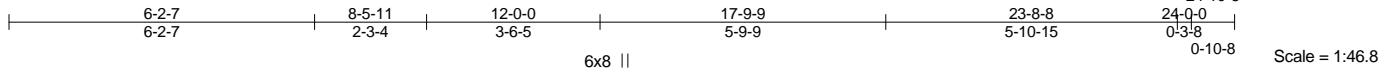


Plate Offsets (X,Y)-- [3:1-0-6,0-1-2], [8:0-11-6,0-2-8], [10:0-8-0,0-2-4], [12:0-7-8,0-1-8]

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 0.51	Vert(LL)	-0.13 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.26 10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09 10-12	>999	240		
								Weight: 448 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 3-5, 1-5. Except:  
T-Brace: 2x6 SPF No.2 - 3-4  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 4

**REACTIONS.** (lb/size) 3=7816/0-3-8 (min. 0-3-4), 8=6306/0-3-8 (min. 0-2-10)  
Max Horz 3=-194(LC 9)  
Max Uplift 3=-524(LC 8), 8=-671(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-11176/772, 4-5=-11173/770, 5-6=-11050/750, 6-7=-11096/1161, 7-8=-11298/1129  
BOT CHORD 3-13=-597/9699, 13-14=-596/9680, 14-15=-595/9662, 15-16=-595/9643, 12-16=-594/9624,  
12-17=-460/6623, 17-18=-460/6623, 18-19=-460/6623, 19-20=-460/6623, 11-20=-460/6623,  
10-11=-460/6623, 10-21=-893/9672, 8-21=-893/9672  
WEBS 2-3=-254/86, 6-12=-162/6278, 6-10=-871/6050, 7-10=-342/207

- 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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=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, with BC DL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=524, 8=671.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1252 lb down and 76 lb up at 1-10-6, 1252 lb down and 76 lb up at 3-10-6, 1223 lb down and 56 lb up at 5-10-6, 1268 lb down and 39 lb up at 7-10-6, 1238 lb down and 23 lb up at 9-10-6, 1291 lb down and 48 lb up at 11-10-6, 1275 lb down and 158 lb up at 13-10-6, and 1245 lb down and 159 lb up at 15-10-6, and 2338 lb down and 500 lb up at 17-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Continued on page 2  
**LOAD CASE(S)** Standard

Job J1024-5732	Truss C2	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co. Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:42 2024 Page 2  
ID:rYd7CkiNsenaNmw2JmhjeeynETQ-wNm1NpqZV1CHVykW1VgZkIPNDL6NqEulU4Q5o?yQE0V

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 5-6=-60, 6-9=-60, 3-8=-20, 1-5=-60

Concentrated Loads (lb)

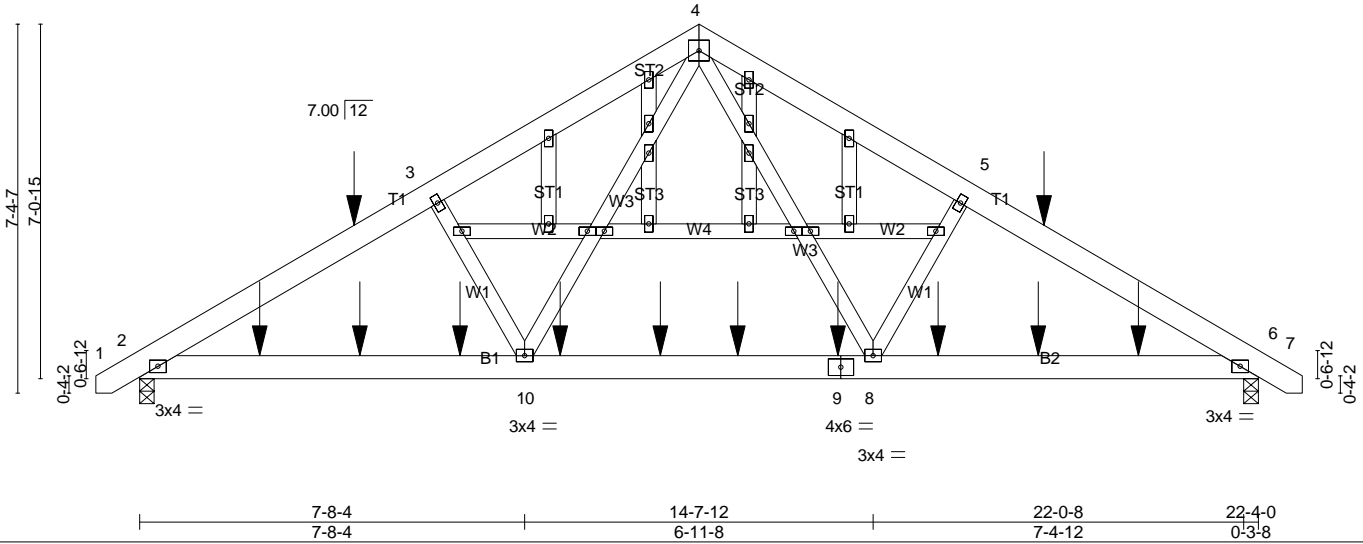
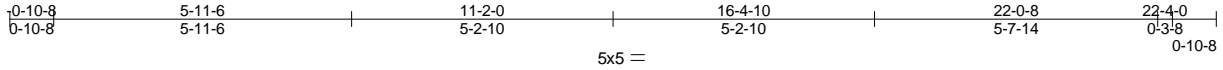
Vert: 11=-1245(B) 10=-1245(B) 13=-1223(B) 14=-1223(B) 15=-1223(B) 16=-1223(B) 17=-1223(B) 19=-1225(B) 21=-2338(B)



Job J1024-5732	Truss D1	Truss Type GABLE	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:43 2024 Page 1  
ID:rYd7CkiNsenaNmW2JmhjeeynETQ-OZJQa9rBGLK766JibDBoHyfFkWWWZstujkAeKRyQE0U



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 0.10	Vert(LL)	-0.02	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.05	6-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	2-10	>999		
								Weight: 354 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

**REACTIONS.** (lb/size) 2=1220/0-3-8 (min. 0-1-8), 6=1220/0-3-8 (min. 0-1-8)  
Max Horz 2=-166(LC 6)  
Max Uplift 2=-97(LC 8), 6=-97(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-34=-1692/96, 3-34=-1547/90, 3-4=-1519/133, 4-5=-1519/133, 5-35=-1547/91,  
6-35=-1692/97  
BOT CHORD 2-25=-101/1395, 25-26=-101/1395, 26-27=-101/1395, 10-27=-101/1395, 10-28=0/924,  
28-29=0/924, 29-30=0/924, 9-30=0/924, 8-9=0/924, 8-31=-23/1396, 31-32=-23/1396,  
32-33=-23/1396, 6-33=-23/1396  
WEBS 3-10=-375/208, 4-10=-68/678, 4-8=-68/679, 5-8=-375/208

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 101 lb up at 4-4-12, and 103 lb down and 101 lb up at 17-11-4 on top chord, and 143 lb down and 46 lb up at 2-4-12, 42 lb down at 4-4-12, 42 lb down at 6-4-12, 42 lb down at 8-4-12, 42 lb down at 10-4-12, 42 lb down at 11-11-4, 42 lb down at 13-11-4, 42 lb down at 15-11-4, and 42 lb down at 17-11-4, and 143 lb down and 46 lb up at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2  
**LOAD CASE(S)** Standard

Job J1024-5732	Truss D1	Truss Type GABLE	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co. Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:43 2024 Page 2  
ID:rYd7CkiNsenaNmw2JmhjeeynETQ-OZJQa9rBGLK766JibDBoHyreFkWWWZstujkAeKRyQE0U

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 2-6=-20, 1-4=-60, 4-7=-60

Concentrated Loads (lb)

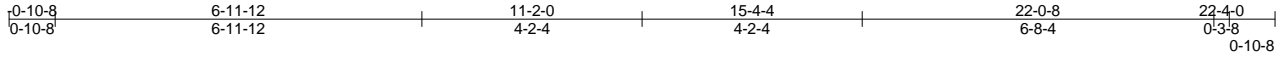
Vert: 9=-21(F) 25=-143(F) 26=-21(F) 27=-21(F) 28=-21(F) 29=-21(F) 30=-21(F) 31=-21(F) 32=-21(F) 33=-143(F) 34=-58(F) 35=-58(F)

Job J1024-5732	Truss D2	Truss Type COMMON	Qty 4	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:43 2024 Page 1  
 ID: rYd7CkiNsenaNMw2JmhjeeynETQ-OZJQa9rBGLK766JibDBoHyyWikT0ZnZujkAeKRyQE0U

Job Reference (optional)



Scale = 1:43.8

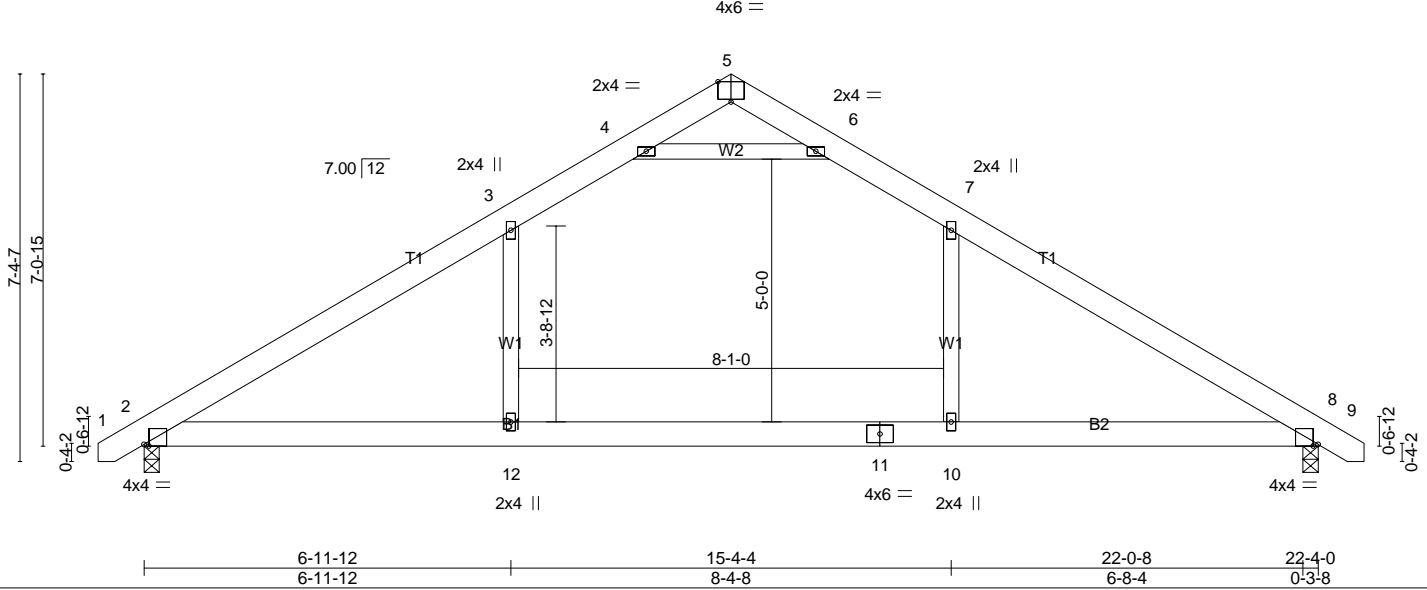


Plate Offsets (X,Y)-- [2:0-1-2,Edge], [5:0-3-0,Edge], [8:0-1-2,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.28	10-12	>944	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.02	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	2-12	>999	240		
									Weight: 135 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=933/0-3-8 (min. 0-1-8), 8=933/0-3-8 (min. 0-1-8)  
 Max Horz 2=166(LC 11)  
 Max Uplift 2=-62(LC 12), 8=-62(LC 13)  
 Max Grav 2=1062(LC 19), 8=1062(LC 20)

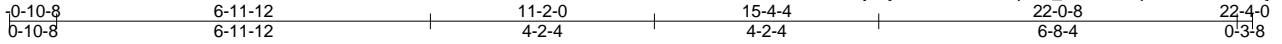
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-13=-1549/220, 3-13=-1412/236, 3-4=-1148/297, 4-5=-103/614, 5-6=-103/616,  
 6-7=-1148/297, 7-14=-1412/236, 8-14=-1549/220  
 BOT CHORD 2-12=-80/1235, 11-12=-80/1235, 10-11=-80/1235, 8-10=-80/1235  
 WEBS 3-12=0/467, 7-10=0/467, 4-6=-1874/448

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-9 to 3-8-4, Interior(1) 3-8-4 to 11-2-0, Exterior(2) 11-2-0 to 15-4-4, Interior(1) 15-4-4 to 23-0-9 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, with BCCL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss D3	Truss Type COMMON	Qty 5	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:44 2024 Page 1  
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4x6 =

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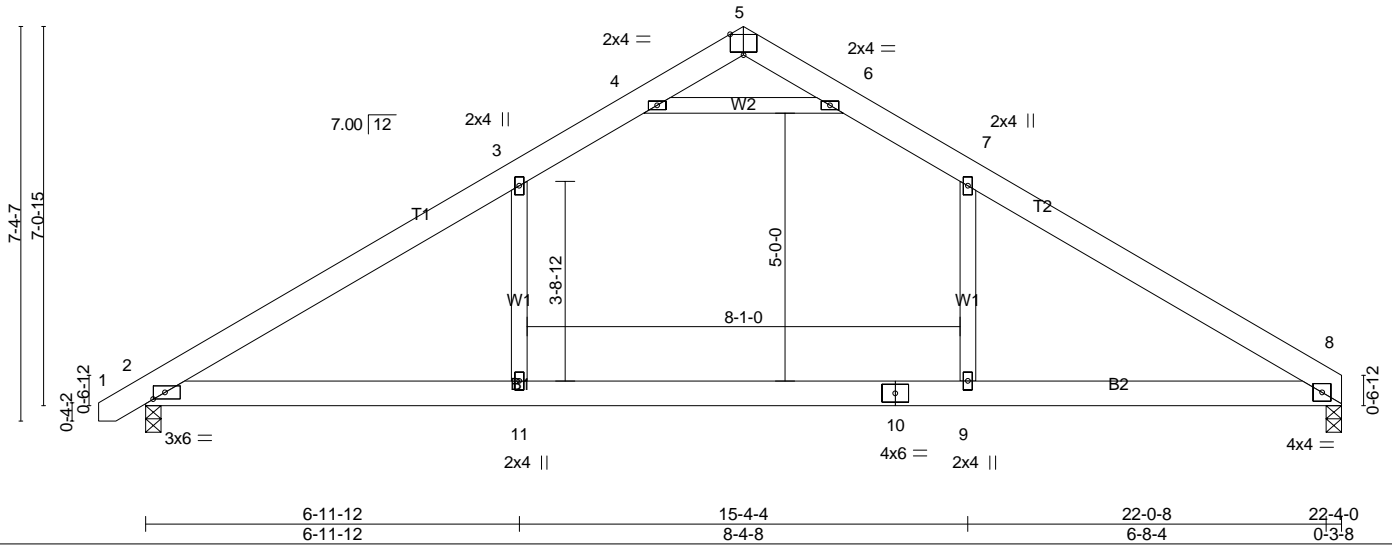


Plate Offsets (X,Y)-- [2:0-2-10,Edge], [5:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.18	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.28	9-11	>932		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	2-11	>999		
								Weight: 133 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 8=881/0-3-8 (min. 0-1-8), 2=934/0-3-8 (min. 0-1-8)  
 Max Horz 2=163(LC 11)  
 Max Uplift 8=50(LC 13), 2=62(LC 12)  
 Max Grav 8=1013(LC 20), 2=1063(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-12=-1553/221, 3-12=-1416/238, 3-4=-1150/298, 4-5=-113/621, 5-6=-106/622,  
 6-7=-1150/303, 7-13=-1415/239, 8-13=-1546/222  
 BOT CHORD 2-11=-96/1232, 10-11=-96/1232, 9-10=-96/1232, 8-9=-96/1232  
 WEBS 3-11=0/469, 7-9=0/460, 4-6=-1886/468

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-9 to 3-8-4, Interior(1) 3-8-4 to 11-2-0, Exterior(2) 11-2-0 to 15-4-4, Interior(1) 15-4-4 to 22-2-4 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, with BC DL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss E1	Truss Type COMMON	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:44 2024 Page 1  
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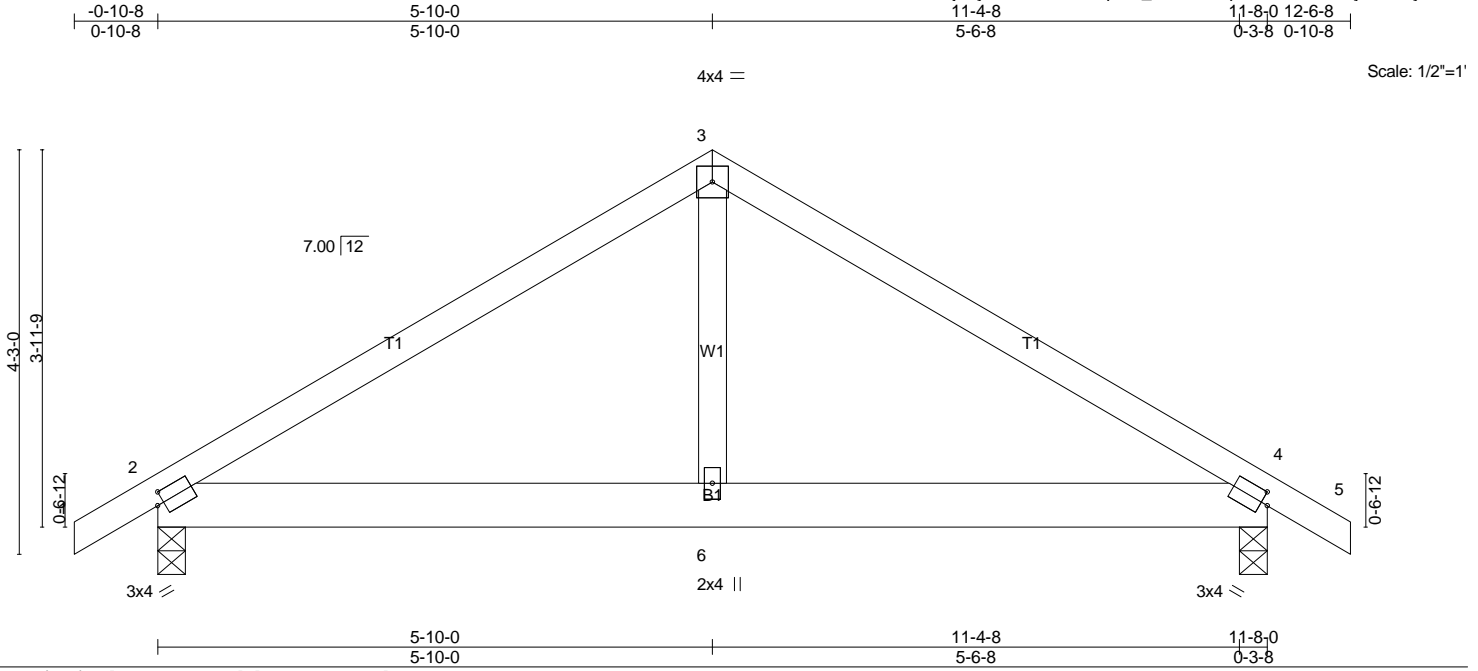


Plate Offsets (X,Y)-- [2'-0"-14'-0"-1'-8"], [4'-0"-14'-0"-1'-8"]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT) -0.02	4-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.01	2-6	>999	240		
	Code IRC2015/TPI2014						Weight: 56 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 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" oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

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

**REACTIONS.** (lb/size) 2=516/0-3-8 (min. 0-1-8), 4=516/0-3-8 (min. 0-1-8)  
 Max Horz 2=-94(LC 10)  
 Max Uplift 2=-40(LC 12), 4=-40(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-582/123, 7-8=-502/138, 3-8=-496/156, 3-9=-496/156, 9-10=-502/138, 4-10=-582/123  
 BOT CHORD 2-6=-15/413, 4-6=-15/413  
 WEBS 3-6=0/290

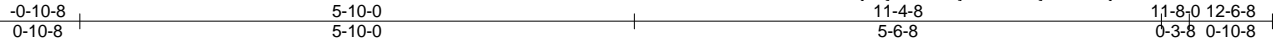
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-0, Exterior(2) 5-10-0 to 10-2-13, Interior(1) 10-2-13 to 12-6-8 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) 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss E1GE	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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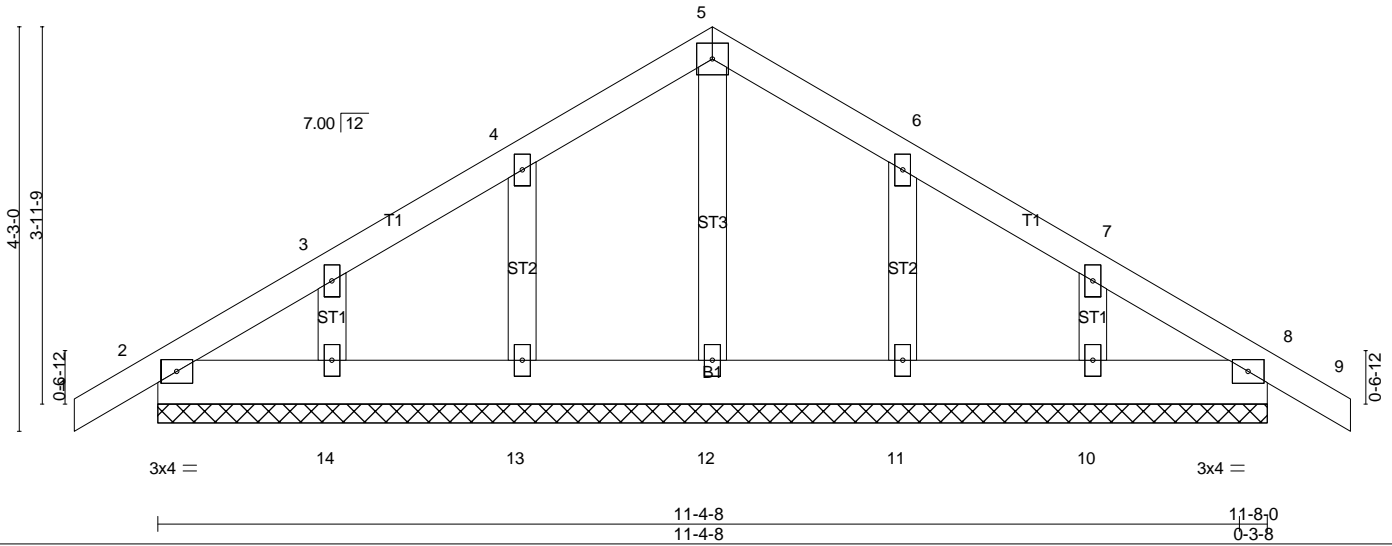
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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4x4 =

Scale: 1/2"=1'



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 0.04	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 65 lb	FT = 20%

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

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

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

**REACTIONS.** All bearings 11-8-0.  
 (lb) - Max Horz 2=-117(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

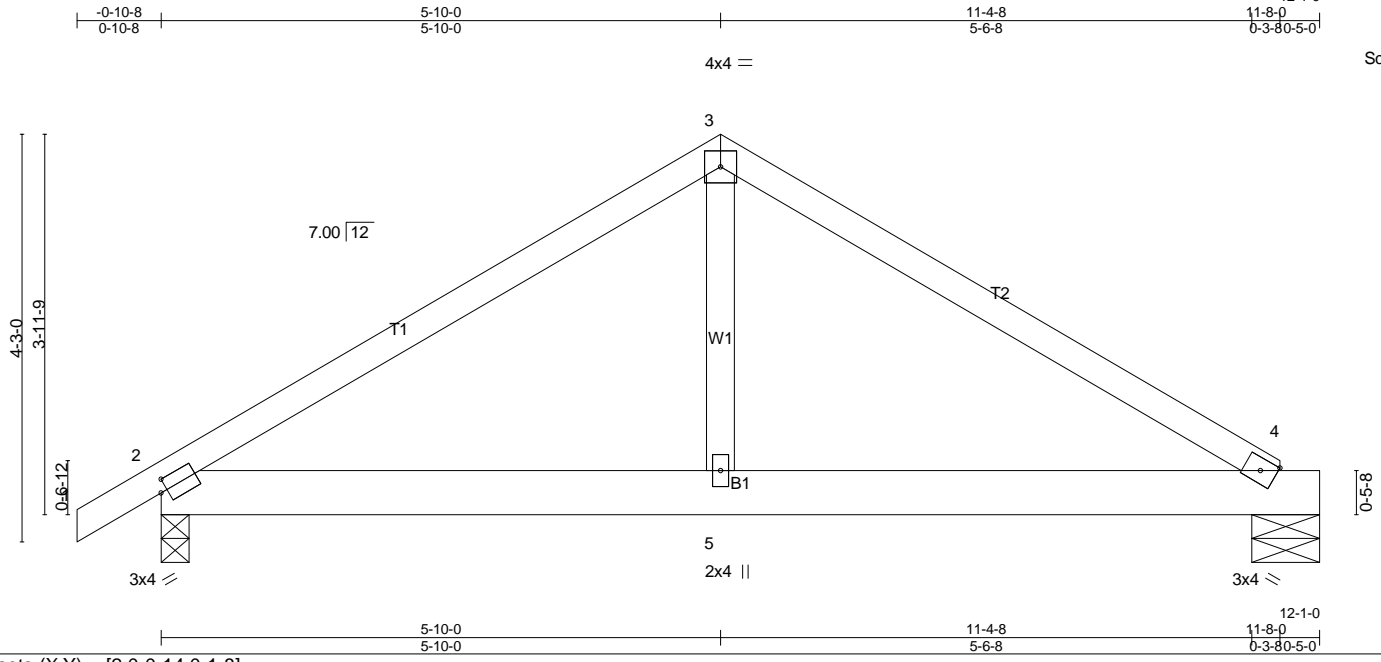
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-10-0, Corner(3) 5-10-0 to 10-2-13, Exterior(2) 10-2-13 to 12-6-8 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 requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 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.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss E2	Truss Type COMMON	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:45 2024 Page 1  
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Scale: 1/2"=1'

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

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 0.36	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01	2-5	>999	240		
									Weight: 55 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 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.** (lb/size) 4=461/0-8-8 (min. 0-1-8), 2=527/0-3-8 (min. 0-1-8)  
 Max Horz 2=91(LC 9)  
 Max Uplift 4=-26(LC 13), 2=-40(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-6=-604/128, 6-7=-523/144, 3-7=-518/161, 3-8=-499/162, 8-9=-514/143, 4-9=-596/135  
 BOT CHORD 2-5=-41/433, 4-5=-41/433  
 WEBS 3-5=0/294

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-0, Exterior(2) 5-10-0 to 10-2-13, Interior(1) 10-2-13 to 11-8-12 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) 4, 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss E2A	Truss Type COMMON	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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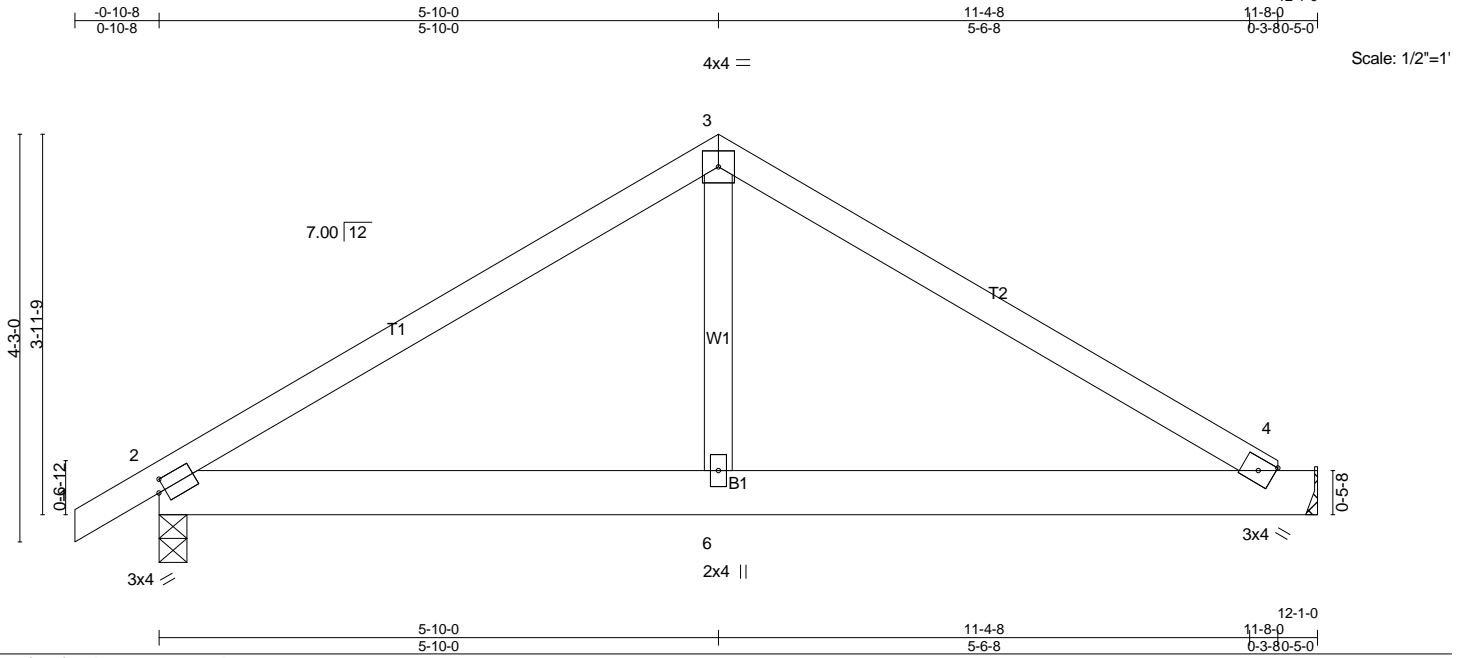


Plate Offsets (X,Y)-- [2:0-0-14,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	-0.02	4-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.04	4-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	4-6	>999		
	Code IRC2015/TPI2014						Weight: 55 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 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.** (lb/size) 2=539/0-3-8 (min. 0-1-8), 5=451/Mechanical  
 Max Horz 2=91(LC 11)  
 Max Uplift 2=-40(LC 12), 5=-21(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-637/138, 7-8=-555/154, 3-8=-550/171, 3-9=-531/172, 9-10=-547/153, 4-10=-629/144  
 BOT CHORD 2-6=-49/460, 4-6=-49/460  
 WEBS 3-6=0/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-0, Exterior(2) 5-10-0 to 10-2-13, Interior(1) 10-2-13 to 11-8-0 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.
  - 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) 2, 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

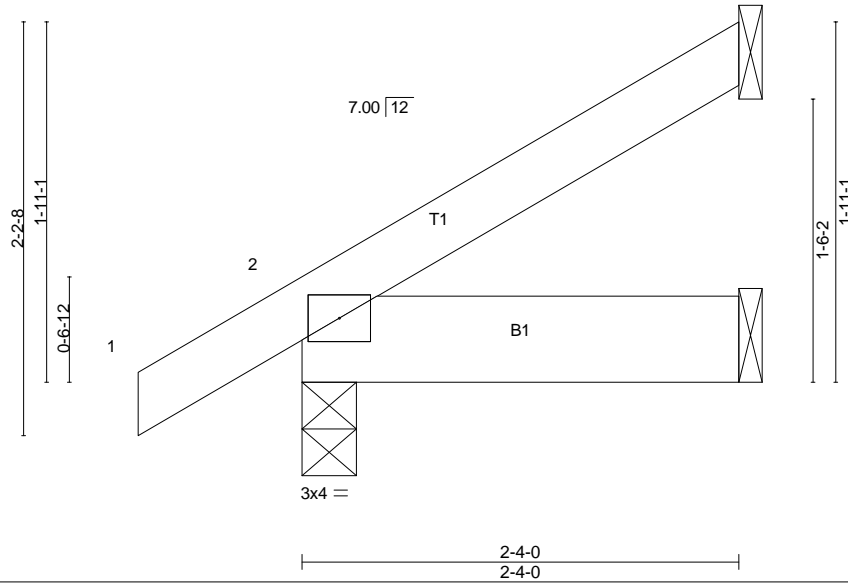


Job J1024-5732	Truss J02	Truss Type JACK-OPEN	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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Scale = 1:12.3



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 0.07	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=49/Mechanical, 2=161/0-3-8 (min. 0-1-8), 4=21/Mechanical  
 Max Horz 2=57(LC 12)  
 Max Uplift 3=-35(LC 12), 2=-10(LC 12)  
 Max Grav 3=57(LC 19), 2=161(LC 1), 4=43(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

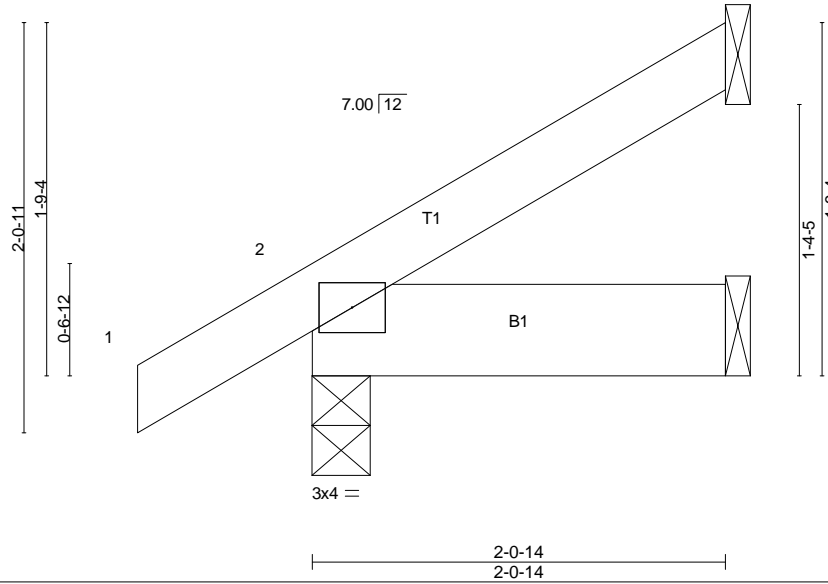
**LOAD CASE(S)** Standard

Job J1024-5732	Truss J02A	Truss Type JACK-OPEN	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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Scale = 1:11.6



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 0.05	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-0-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=39/Mechanical, 2=153/0-3-8 (min. 0-1-8), 4=19/Mechanical  
 Max Horz 2=53(LC 12)  
 Max Uplift 3=-30(LC 12), 2=-11(LC 12)  
 Max Grav 3=46(LC 19), 2=153(LC 1), 4=37(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

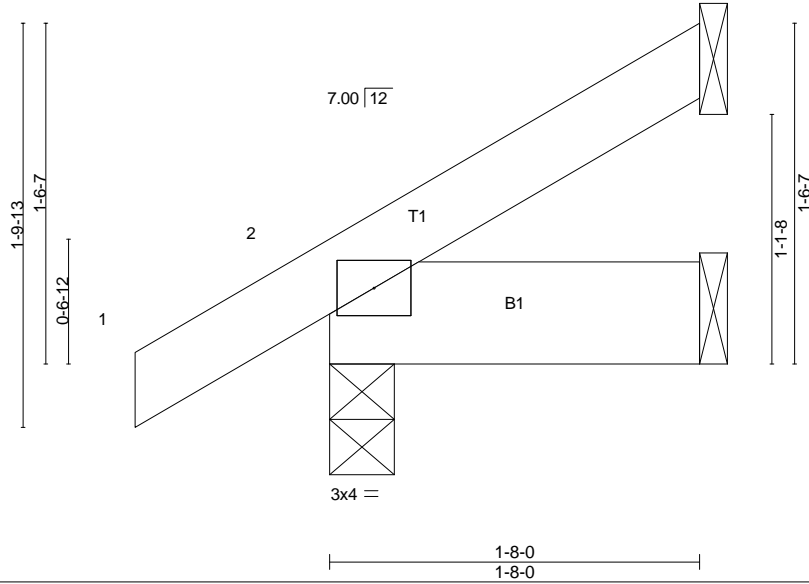
**LOAD CASE(S)** Standard

Job J1024-5732	Truss J02B	Truss Type JACK-OPEN	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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Scale = 1:10.4



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00 2 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 2 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 9 lb FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=34/Mechanical, 2=134/0-3-8 (min. 0-1-8), 4=16/Mechanical  
 Max Horz 2=46(LC 12)  
 Max Uplift 3=-25(LC 12), 2=-11(LC 12)  
 Max Grav 3=40(LC 19), 2=134(LC 1), 4=32(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

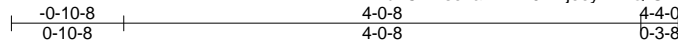
**LOAD CASE(S)** Standard

Job J1024-5732	Truss J04	Truss Type JACK-OPEN	Qty 8	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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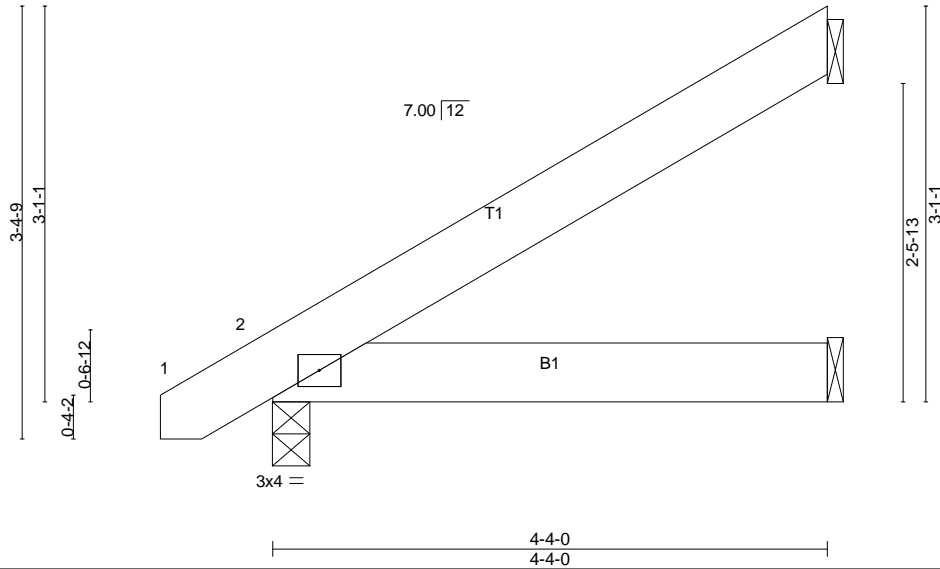
Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:18.0



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 0.10	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 25 lb	FT = 20%

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

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

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

**REACTIONS.** (lb/size) 3=118/Mechanical, 2=222/0-3-8 (min. 0-1-8), 4=41/Mechanical  
 Max Horz 2=92(LC 12)  
 Max Uplift 3=-67(LC 12), 2=-5(LC 12)  
 Max Grav 3=129(LC 19), 2=222(LC 1), 4=83(LC 3)

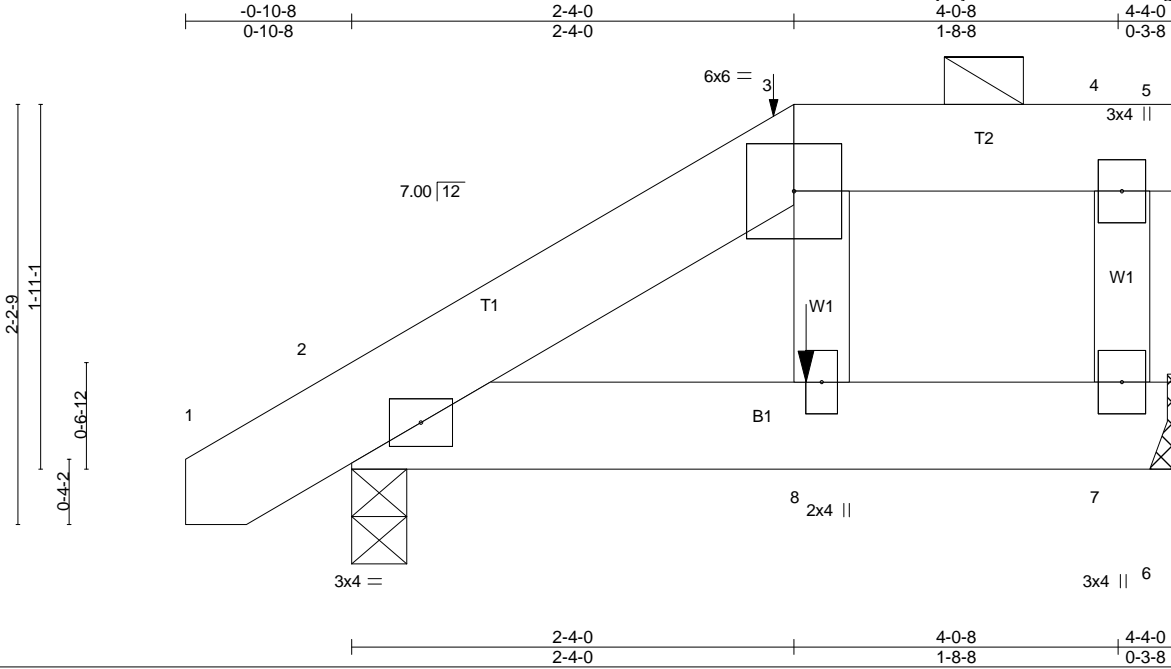
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 4-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss J04A	Truss Type HALF HIP GIRDER	Qty 2	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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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 0.07	Vert(LL)	-0.00	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	8	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	8	>999	240	Weight: 27 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 7=163/Mechanical, 2=214/0-3-8 (min. 0-1-8)  
 Max Horz 2=57(LC 8)  
 Max Uplift 7=-26(LC 5), 2=-25(LC 8)

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

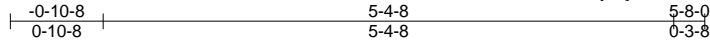
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 41 lb up at 2-4-0 on top chord, and 9 lb down at 2-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20  
 Concentrated Loads (lb)  
 Vert: 8=-1(F)

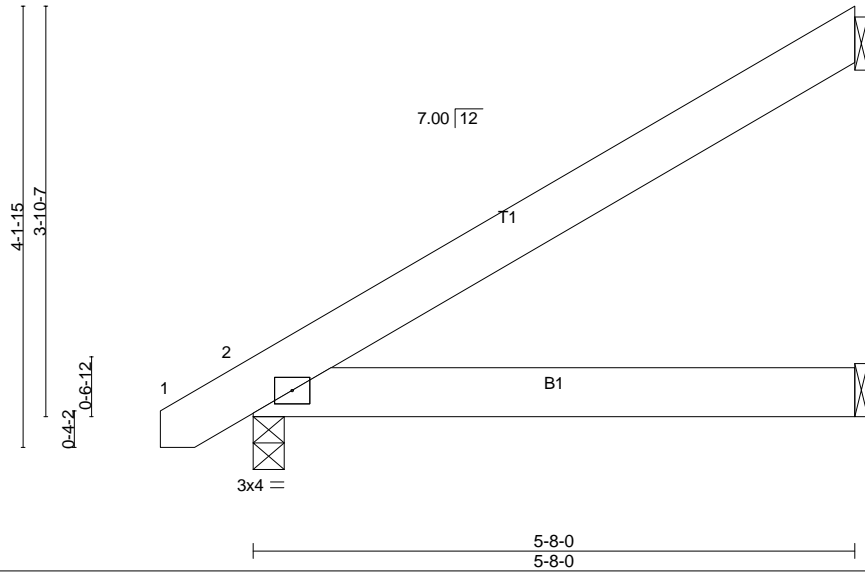
Job J1024-5732	Truss J05	Truss Type JACK-OPEN	Qty 3	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:21.7



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 0.18	Vert(LL)	-0.01	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	Weight: 31 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=160/Mechanical, 2=274/0-3-8 (min. 0-1-8), 4=55/Mechanical  
Max Horz 2=118(LC 12)  
Max Uplift 3=88(LC 12), 2=3(LC 12)  
Max Grav 3=174(LC 19), 2=274(LC 1), 4=109(LC 3)

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

**NOTES-**

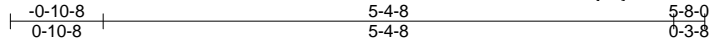
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 5-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

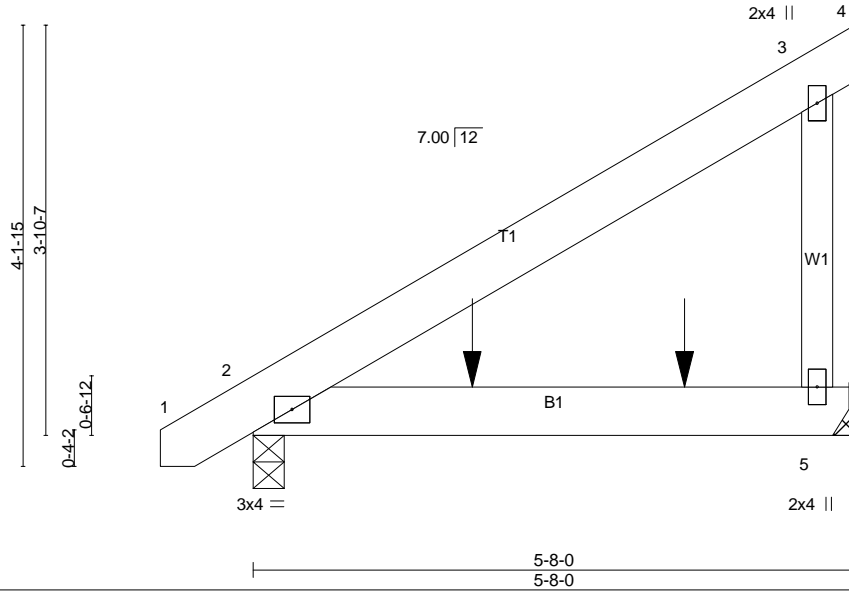
Job J1024-5732	Truss J05A	Truss Type JACK-OPEN	Qty 1	Ply 2	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:48 2024 Page 1  
ID:rYd7CkiNsenaNmW2JmhjeeynETQ-kX7JevK4tzQDtCgOmnz\_0fVEIBYE7Edt0tP0fyQE0P



Scale = 1:21.7



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 0.09	Vert(LL)	-0.03	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.06	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.02	2-5	>999	240	Weight: 71 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=638/0-3-8 (min. 0-1-8), 5=712/Mechanical  
Max Horz 2=118(LC 8)  
Max Uplift 2=-29(LC 8), 5=-99(LC 8)

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

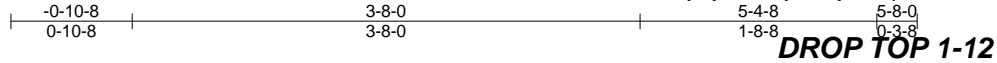
- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=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.
  - 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) 2, 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.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 432 lb down and 41 lb up at 2-0-12, and 432 lb down and 41 lb up at 4-0-12 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: 1-4=-60, 2-5=-20  
Concentrated Loads (lb)  
Vert: 6=-432(B) 7=-432(B)

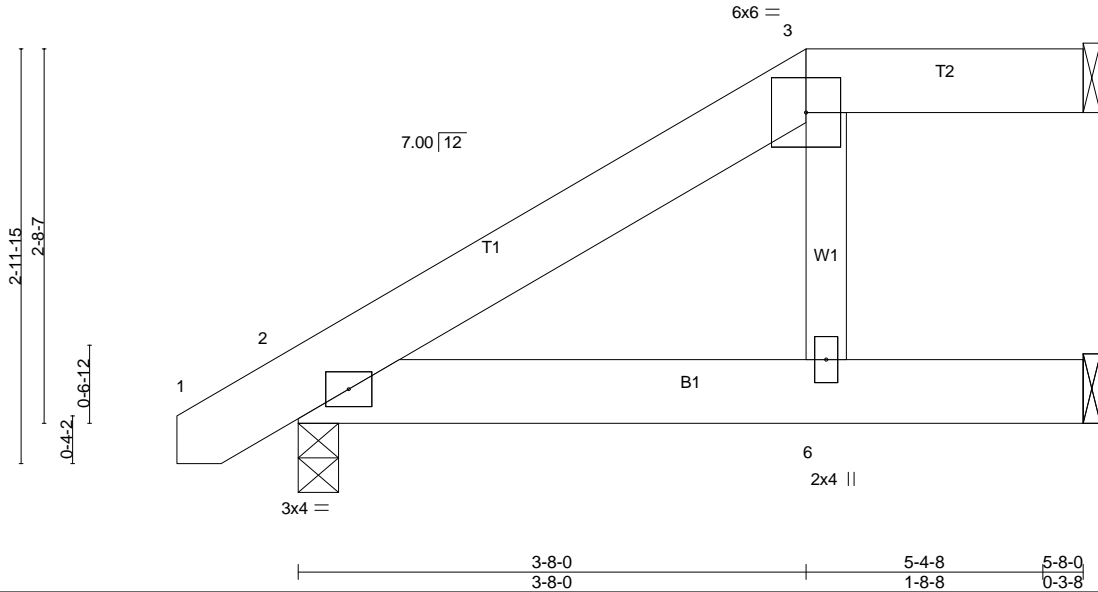
Job J1024-5732	Truss J05B	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:16.6



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL) -0.02	2-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT) -0.03	2-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.02	2-6	>999	240	Weight: 33 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings Mechanical except (jt=length) 2=0-3-8.  
 (lb) - Max Horz 2=82(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 4  
 Max Grav All reactions 250 lb or less at joint(s) 5, 5, 4 except 2=274(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) 2, 5, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

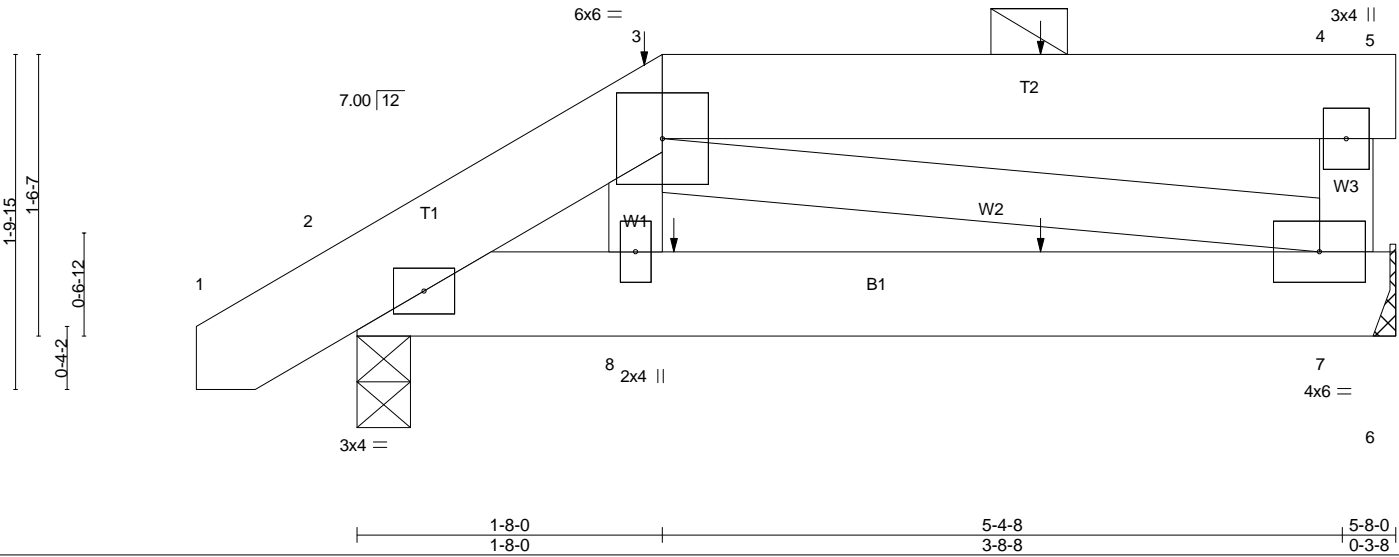


Job J1024-5732	Truss J05C	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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Scale = 1:12.6



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 0.09	Vert(LL)	-0.00	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	8	>999	240		
									Weight: 37 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 7=217/Mechanical, 2=266/0-3-8 (min. 0-1-8)  
 Max Horz 2=44(LC 8)  
 Max Uplift 7=-25(LC 5), 2=-24(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-277/0

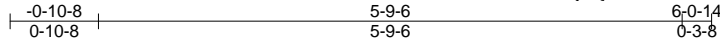
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 28 lb up at 1-8-0, and 54 lb down and 25 lb up at 3-8-12 on top chord, and 4 lb down at 1-8-12, and 4 lb down at 3-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20

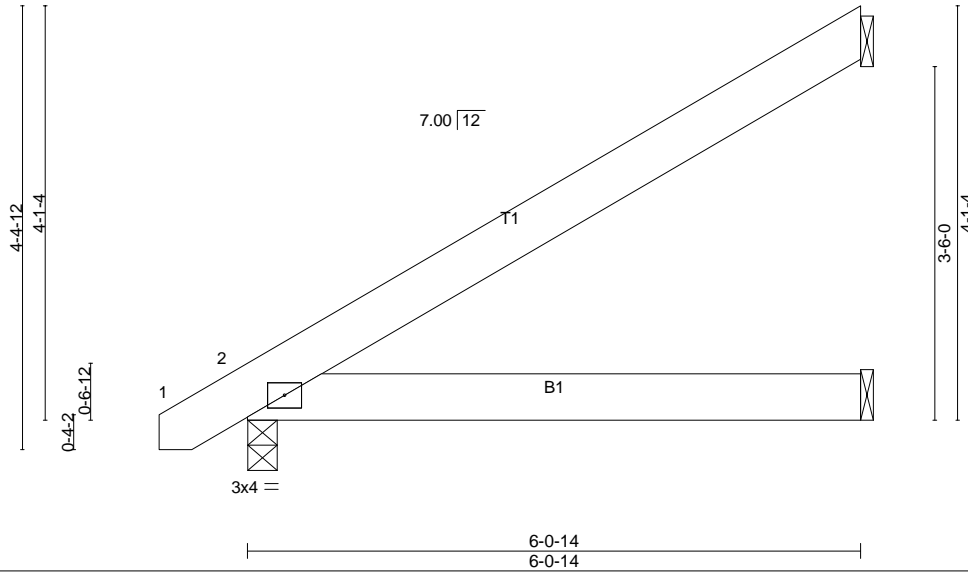
Job J1024-5732	Truss J06	Truss Type JACK-OPEN	Qty 25	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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Scale = 1:22.8



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 0.21	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240		
									Weight: 33 lb	FT = 20%

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

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

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

**REACTIONS.** (lb/size) 3=172/Mechanical, 2=290/0-3-8 (min. 0-1-8), 4=59/Mechanical  
 Max Horz 2=125(LC 12)  
 Max Uplift 3=95(LC 12), 2=3(LC 12)  
 Max Grav 3=187(LC 19), 2=290(LC 1), 4=117(LC 3)

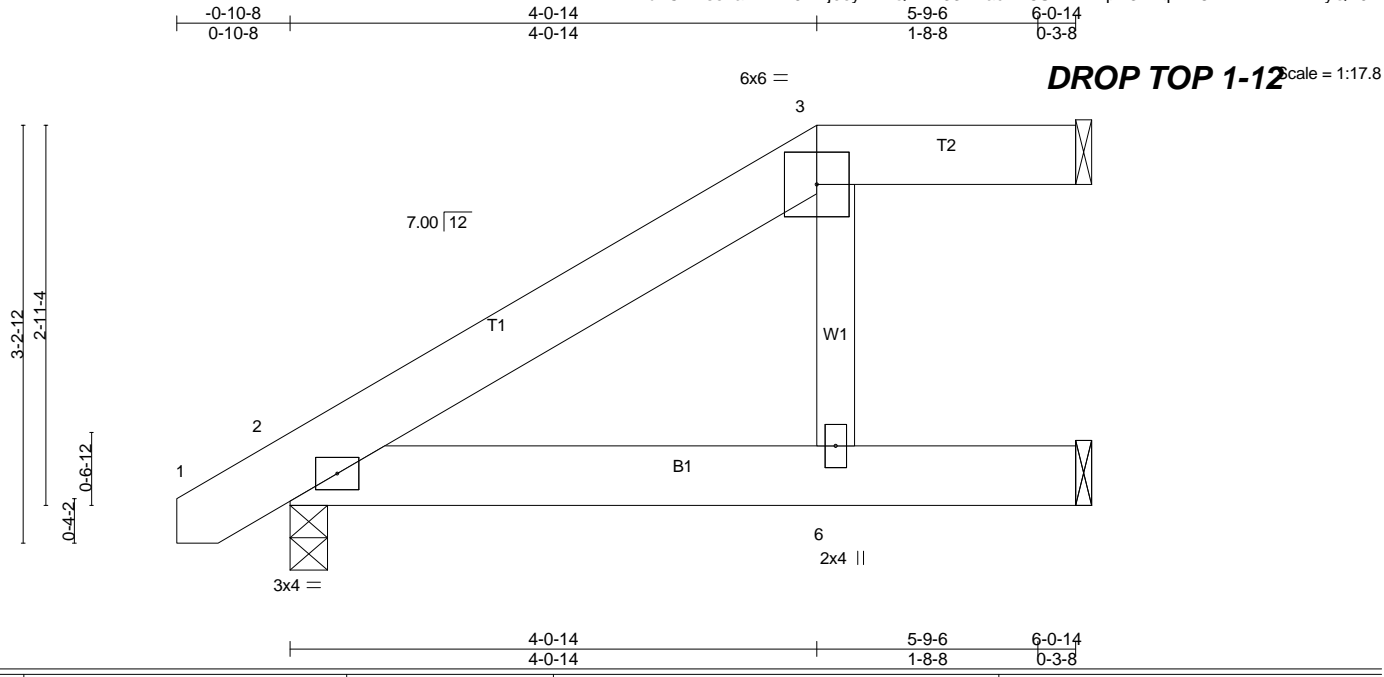
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 6-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss J06A	Truss Type HALF HIP	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL) -0.02	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.04	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	2-6	>999	240	Weight: 36 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 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings Mechanical except (jt=length) 2=0-3-8.  
 (lb) - Max Horz 2=90(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 4  
 Max Grav All reactions 250 lb or less at joint(s) 5, 5, 4 except 2=290(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 4-0-14, Exterior(2) 4-0-14 to 6-0-2 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) 2, 5, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss J06B	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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Scale = 1:13.3

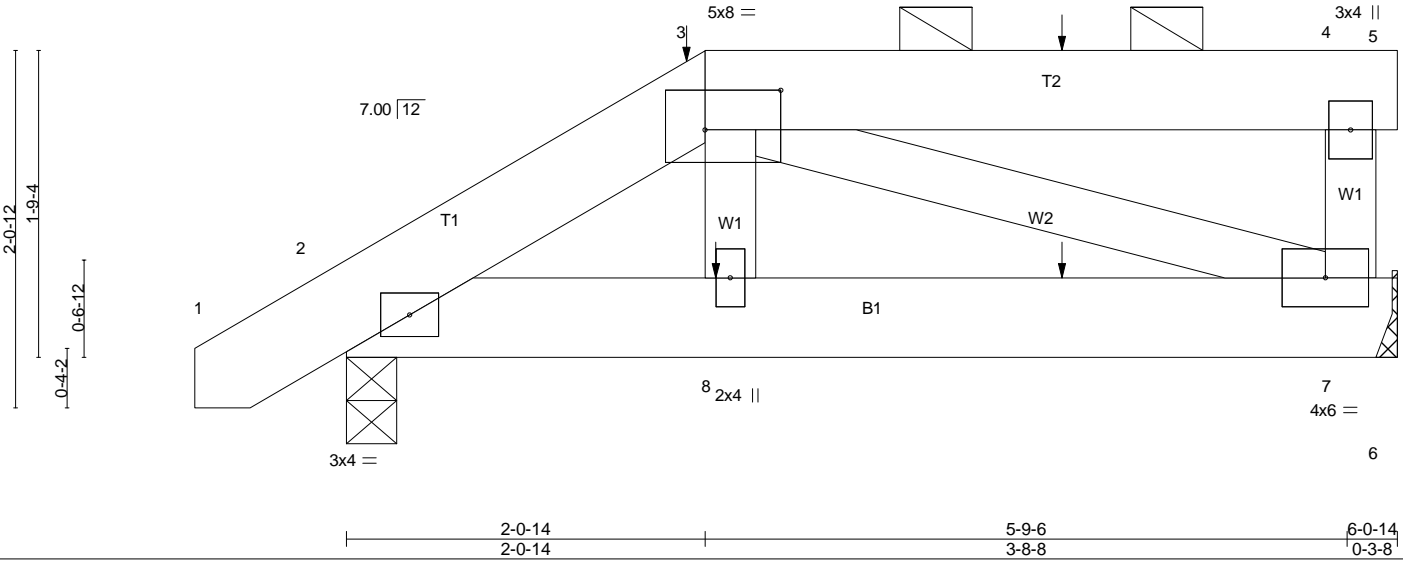


Plate Offsets (X,Y)-- [3:0-5-4,0-2-12]

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 0.09	Vert(LL)	-0.00	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	8	>999	240		
									Weight: 40 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.): 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 7=233/Mechanical, 2=282/0-3-8 (min. 0-1-8)  
 Max Horz 2=52(LC 8)  
 Max Uplift 7=32(LC 5), 2=31(LC 8)

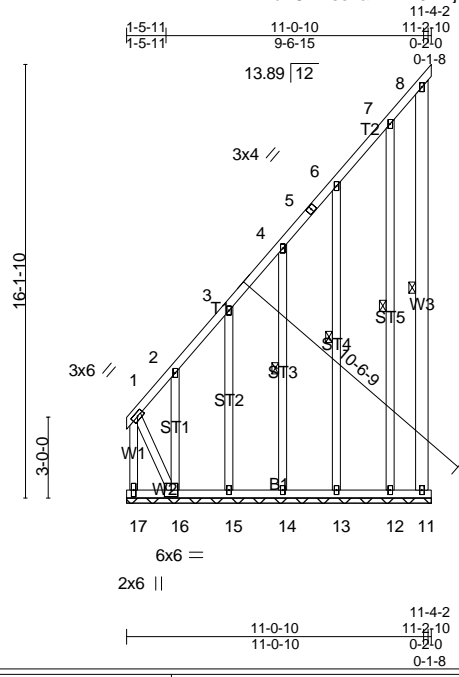
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-287/18

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 35 lb up at 2-0-14, and 59 lb down and 31 lb up at 4-1-10 on top chord, and 7 lb down at 2-1-10, and 7 lb down at 4-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20

Job J1024-5732	Truss LG-1	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Oct 24 11:31:51 2024 Page 1  
 ID:rYd7CkiNsenaNmW2JmhjeeynETQ-96oRGuxCNoL?4KwF3uLgbeH?4zHuRQx4Z\_63c\_yQE0M



Scale = 1:85.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	-0.04	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 156 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W3: 2x6 SP No.1  
 OTHERS 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 8-2-11 oc bracing: 17-18,16-17.  
 WEBS 1 Row at midpt 7-12, 6-13, 4-14, 8-11

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

**REACTIONS.** All bearings 11-4-2.  
 (lb) - Max Horz 18=418(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 9, 18, 12, 11 except 16=887(LC 12), 13=110(LC 12), 14=102(LC 12), 15=114(LC 12), 17=560(LC 10)  
 Max Grav All reactions 250 lb or less at joint(s) 9, 10, 12, 13, 14, 15, 11 except 16=529(LC 10), 17=1253(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-865/752, 2-3=-735/628, 3-19=-570/449, 4-19=-553/476, 4-5=-416/322, 5-6=-399/338  
 BOT CHORD 17-18=-598/513, 16-17=-598/513  
 WEBS 1-17=-1771/1500, 1-16=-1106/1288

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are 2x4 MT20 unless otherwise indicated.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 18, 12, 11 except (jt=lb) 16=887, 13=110, 14=102, 15=114, 17=560.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

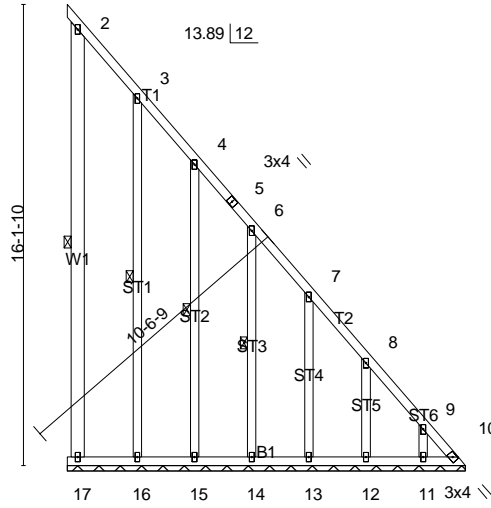
Job J1024-5732	Truss LG-2	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
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Comtech, Inc., Fayetteville, NC 28309, Linwood Norris

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0-4-8 13-7-12 13-11-4  
0-4-8 13-3-4 0-3-8

Scale = 1:80.6



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	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 0.18	Horz(CT) 0.02 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 149 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-16, 4-15, 6-14, 2-17

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

**REACTIONS.** All bearings 13-11-4.  
(lb) - Max Horz 1=-514(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 11, 17 except 1=-299(LC 11), 16=-114(LC 13), 15=-104(LC 13), 14=-105(LC 13), 13=-104(LC 13), 12=-107(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 10, 16, 15, 14, 13, 12, 11, 17 except 1=606(LC 13)

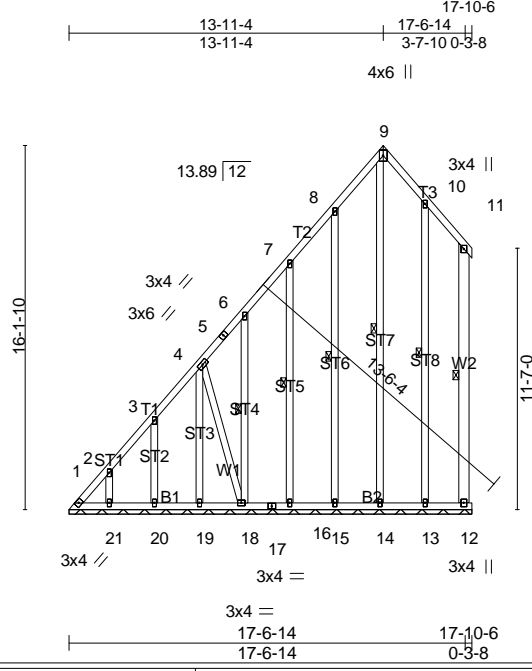
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-957/1086, 2-3=-864/983, 3-4=-713/820, 4-5=-561/670, 5-6=-576/654, 6-7=-439/520,  
7-19=-275/366, 8-19=-302/357

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-5-8, Interior(1) 4-5-8 to 13-7-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are 2x4 MT20 unless otherwise indicated.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) 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.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 11, 17 except (jt=lb) 1=299, 16=114, 15=104, 14=105, 13=104, 12=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.

**LOAD CASE(S)** Standard

Job J1024-5732	Truss LG-3	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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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 0.10	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 0.26	Horz(CT)	-0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 212 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* W1: 2x4 SP No.2	WEBS 1 Row at midpt 11-12, 9-14, 8-15, 7-16, 6-18, 10-13
OTHERS 2x4 SP No.2	

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

**REACTIONS.** All bearings 17-10-6.  
 (lb) - Max Horz 1=429(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 12, 14, 19, 20, 13 except 1=-253(LC 10), 15=-107(LC 12), 16=-110(LC 12), 18=-235(LC 12), 21=-104(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 12, 14, 15, 16, 19, 20, 21, 13 except 1=417(LC 12), 18=302(LC 19)

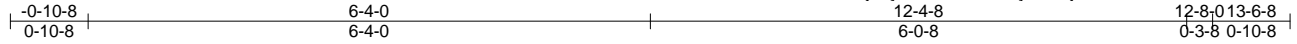
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-617/554, 2-3=-483/430, 3-22=-342/286, 4-22=-325/302, 4-5=-308/244, 5-6=-298/272

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-13 to 4-8-10, Interior(1) 4-8-10 to 13-11-4, Exterior(2) 13-11-4 to 17-6-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 14, 19, 20, 13 except (jt=lb) 1=253, 15=107, 16=110, 18=235, 21=104.
  - 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

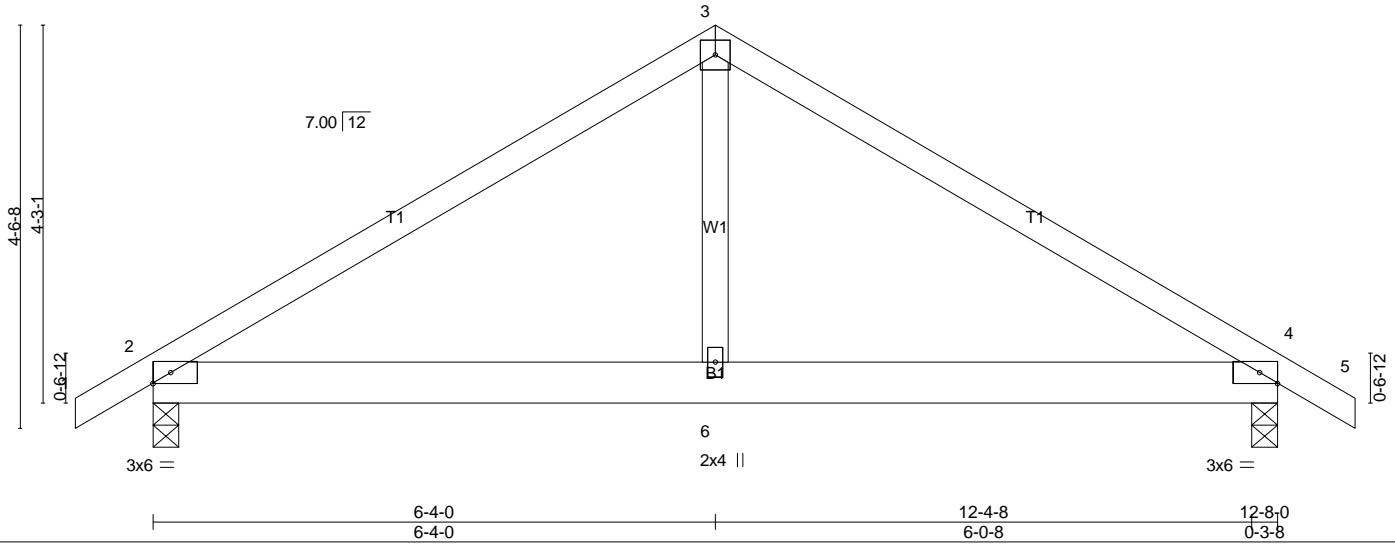
Job J1024-5732	Truss P1	Truss Type COMMON	Qty 6	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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4x4 =

Scale = 1:26.0



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 0.33	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.03	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	4-6	>999	240	Weight: 60 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 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.** (lb/size) 2=556/0-3-8 (min. 0-1-8), 4=556/0-3-8 (min. 0-1-8)  
 Max Horz 2=-101(LC 10)  
 Max Uplift 2=-42(LC 12), 4=-84(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-7=-639/570, 7-8=-536/578, 3-8=-532/598, 3-9=-532/598, 9-10=-536/578, 4-10=-639/570  
 BOT CHORD 2-6=-386/455, 4-6=-386/455  
 WEBS 3-6=-419/317

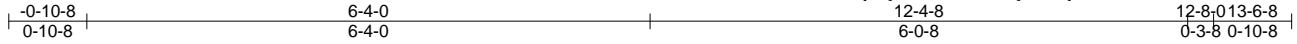
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-4-0, Exterior(2) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-6-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job J1024-5732	Truss P1GE	Truss Type GABLE	Qty 1	Ply 1	S&S / 8618 nc 27 Coats / Harnett Co.
Comtech, Inc., Fayetteville, NC 28309, Linwood Norris					Job Reference (optional)

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4x4 =

Scale = 1:25.9

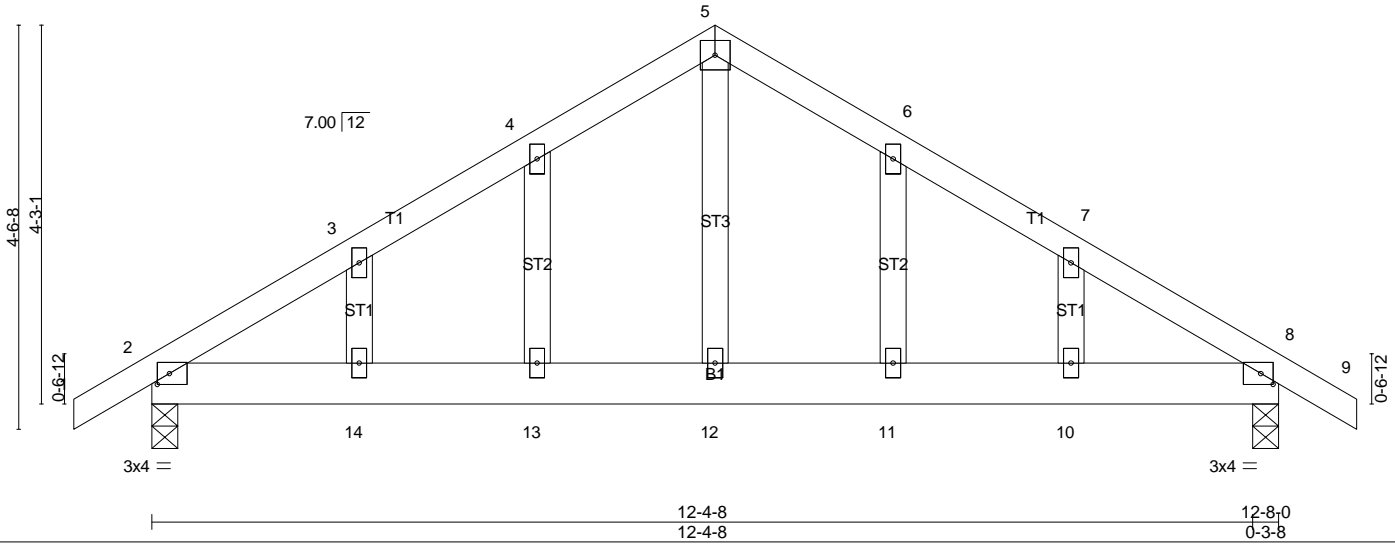


Plate Offsets (X,Y)-- [2:0-1-11,0-1-8], [8:0-1-11,0-1-8]

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 0.12	Vert(LL)	-0.02 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.04 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 10-11	>999	240		
								Weight: 71 lb	FT = 20%

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

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

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

**REACTIONS.** (lb/size) 2=556/0-3-8 (min. 0-1-8), 8=556/0-3-8 (min. 0-1-8)  
 Max Horz 2=-126(LC 10)  
 Max Uplift 2=-127(LC 12), 8=-127(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-610/519, 3-4=-557/551, 4-5=-547/602, 5-6=-547/602, 6-7=-557/551, 7-8=-610/519  
 BOT CHORD 2-15=-363/462, 14-15=-363/462, 14-16=-363/462, 13-16=-363/462, 12-13=-363/462,  
 11-12=-363/462, 11-17=-363/462, 10-17=-363/462, 10-18=-363/462, 8-18=-363/462  
 WEBS 5-12=-485/385

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-4-0, Corner(3) 6-4-0 to 10-8-13, Exterior(2) 10-8-13 to 13-6-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 8=127.
  - 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